UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD
Case IPR2022-00138
IPR2022-00135

----- : DEPOSITION OF: THE DATA COMPANY :

THE DATA COMPANY : DAVE LEVIN

Petitioner :

v.

BRIGHT DATA LTD.,

1

Patent Owner.

July 22, 2022

The virtual recorded deposition of DAVE LEVIN, taken stenographically by Karen Friedlander, CCR-NJ, RCR-NY, RMR, RDR, CRR, on the above date, at 9:00 a.m. ET.

Job No.: 5325

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1 THE VIDEOGRAPHER: Good morning. 2 We are now on the record. Today's date is 3 July 22, 2022, and the time is 9:03 a.m. Eastern Standard Time. 4 5 This is the video deposition of 6 Dr. Dave Levin in the matter of The Data Company 7 Technologies, Inc., versus Bright Data LTD, filed in the United States Patent and Trademark 9 Office before the Patent Trial and Appeal Board, and the case number is IPR2022-00135. 10 11 This deposition is taking place 12 via web videoconference with all participants 13 attending remotely. 14 My name is Luis Garcia, I am the 15 videographer representing TransPerfect Legal 16 Solutions. 17 Will counsel on the conference 18 please identify yourselves and state whom you 19 represent, beginning with the questioning 20 attorney. 21 MR. DUNHAM: This is Tom Dunham 22 for patent owner Bright Data Limited. I'm with 23 the firm of Cherian LLP, and with me today is

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25

Elizabeth O'Brien.

MR. WICHMAN: This is Adam

- 1 Wichman, I represent the data company, The Data
- 2 Company Technologies, and with me is Dr. Dave
- 3 Levin.
- I do want to point out that there
- 5 are two cases that are involved today. It's not
- 6 just IPR2022-00135, but also IPR2022-00138.
- 7 THE VIDEOGRAPHER: Thank you.
- 8 Our court reporter today is Karen Friedlander
- 9 representing TransPerfect Legal Solutions.
- 10 Would the court reporter please
- 11 swear in the witness.
- 12 (DAVE LEVIN, having been duly sworn as a
- 13 witness, testified as follows:)
- 14 MR. DUNHAM: Okay. Would the
- 15 videographer please stop the video recording now
- 16 but keep the video (sic) running.
- Just to confirm, we are still
- 18 recording audio, correct?
- 19 THE VIDEOGRAPHER: Correct.
- MR. DUNHAM: Okay. Thank you.
- 21 EXAMINATION
- 22 BY MR. DUNHAM:
- Q. Dr. Levin, are you ready to go?
- 24 A. I am.
- Q. Great. Well, good morning, and

- 1 thank you for being here today.
- 2 And, Mr. Wichman, thank you for
- 3 the clarification. I had intended to note as
- 4 well, by agreement by the parties, the
- 5 deposition today is applying to two IPRs, the
- 6 -00135 and the -00138.
- 7 So, Dr. Levin, please allow me to
- 8 begin with a little bit of background. Have you
- 9 been deposed before?
- 10 A. No. This is my first deposition.
- 11 Q. Great. So let me just go over a
- 12 few ground rules with you so we can try to make
- 13 things as smooth as possible.
- 14 A. Great.
- 15 Q. So I will be asking you a series
- 16 of questions. From time to time, your counsel
- 17 may interpose an objection. Unless your counsel
- instructs you not to answer, even if he has
- 19 objected, please answer my question, okay?
- 20 A. Okay.
- MR. DURHAM: It appears that the
- 22 video has frozen of the witness.
- 23 Is this something that's been
- 24 going on with your system? I think I heard
- 25 about that yesterday.

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1 MR. WICHMAN: I think we
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- 2 discovered this -- yes.
- 3 (Court reporter seeks
- 4 clarification.)
- 5 MR. WICHMAN: We discovered that
- 6 there is this intermittent issue with some calls
- 7 freezing on the conference room video.
- MR. DURHAM: Well, we'll work
- 9 through this. Hopefully, it will go smoothly.
- 10 BY MR. DURHAM:
- 11 Q. Dr. Levin, as I said, I'll be
- 12 asking you a series of questions, and it's
- important when you respond to a question, that
- 14 if you first don't understand the question,
- 15 please ask me to clarify, and I'll do my best to
- 16 do so. In addition, you must always answer with
- 17 a verbal answer. The court reporter will not
- 18 take down nods or gestures, so please always
- 19 give an audible answer. Is that understood?
- 20 A. I understand, yes.
- 21 Q. Thank you. Also, it's important
- 22 that we all do our best to make sure we only
- 23 speak one person at a time. If the two of us
- 24 speak at the same time, it becomes exceptionally
- 25 difficult for the court reporter and that

- 1 creates a lot of problems. So I will do my best
- 2 when you are answering me, to wait until your
- answer is complete, and I would ask that you do
- 4 the same when I am asking questions. Please
- 5 wait until I have finished asking the questions
- 6 before you respond and that will give us a much
- 7 cleaner record at the end of the proceeding.
- 8 All right?
- 9 A. Yep, I'll do my best.
- 10 Q. We will be going through some
- 11 documents today. I do see you have a few
- 12 binders on the table in front of you and then
- 13 also some boxes, the boxes we shipped to you,
- 14 and there should be also one box or envelope
- 15 from Sir Speedy that was -- I believe red, and I
- 16 don't know if it's that red box or something
- 17 different.
- 18 A. This red box says Sir Speedy on
- 19 it, yes.
- Q. Great. Most of what I will be
- 21 talking to you about today will be in that red
- 22 box with one minor exception, but I do notice
- 23 you have a couple of binders in front of you.
- 24 Could you please tell me what
- 25 materials are in front of you on the table that

- 1 are not from those boxes?
- 2 A. Yes, in this binder to my left, I
- 3 have my declaration for the '319 patent, and
- 4 this binder here to the right, my right, I have
- 5 my declaration for the '510 patent, and in
- front, these are just the table of contents from
- 7 my declaration, and this one I'm pointing to
- 8 here, these are just a printout of the claim
- 9 listings from the respective patents.
- 10 Oh, and here is a printout of
- 11 Plamondon, as far as I can tell a clean printout
- 12 of Plamondon -- I'm sorry, this is just a blank
- 13 legal pad.
- 14 Q. Thank you. And I think you
- 15 anticipated my next question. In terms of the
- 16 materials in front of you, are there any notes,
- 17 post-its, markings, tabs, any other markings of
- 18 any form in any of those documents you just
- 19 identified?
- 20 A. Not to my knowledge, no. I
- 21 flipped through them. I don't see any, no.
- Q. Okay. So as we go through the
- 23 day today, we'll take a break approximately
- 24 every hour. If at any time you need a break
- 25 during the day, please do not hesitate to ask,

- 1 and I'll work with you to get you a break as
- 2 quickly as possible. We may have to finish up a
- 3 question or two to get to the next break, but I
- 4 certainly want to make sure we accommodate any
- 5 scheduling issues or if you need just a mental
- 6 break or other type of break, that's fine. So,
- 7 please don't hesitate to let me know. Okay?
- A. That sounds good, thank you.
- 9 Q. All right. And this question
- 10 always sounds a little strange to witnesses, but
- 11 it's important we always ask. Is there any
- 12 reason today, such as medication or illness,
- 13 anything of that nature, that would prevent you
- 14 from giving complete, truthful answers in your
- 15 testimony?
- 16 A. No, not that I can think of, no.
- 17 Q. Okay. Thank you.
- 18 So can you tell me, generally,
- 19 what you did to prepare for the deposition
- 20 today?
- 21 A. Generally, I read back through my
- 22 declarations, I read back through and
- 23 refamiliarized myself with the patents, the '319
- 24 patent and the '510 patent, and Plamondon and
- 25 some of the other prior art.

- 1 I spoke with Mr. Wichman about
- 2 what a deposition process is like and watched
- 3 some YouTube videos, seeing as how I mentioned,
- 4 this is my first deposition, I wasn't really
- 5 sure what it was.
- 6 So basic background preparation,
- 7 refamiliarizing myself with these documents. I
- 8 also spoke with my dad. Turns out my dad had
- 9 given depositions years and years ago and he
- 10 just gave me some general advice and also sent
- 11 me some other links to YouTube videos. So
- 12 generally speaking, that's what I did.
- 13 Q. Approximately how much time did
- 14 you spend preparing for the deposition today?
- 15 A. I'm not sure exactly. How much
- 16 time -- in terms of a number of hours?
- 17 Q. Yes.
- 18 A. I'm not sure exactly. I started
- 19 preparing last week and spent time each day this
- 20 week. In terms of number of hours, I'm not sure
- 21 off the top of my head.
- Q. Would you say more than a full
- 23 day preparing?
- 24 A. Yes.
- Q. More than two days?

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A. More than two work days? Yes.
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- 2 Q. Have you been keeping track of
- 3 your time in these two matters?
- A. I have been keeping track of the
- 5 time, I just don't remember it off the top of my
- 6 head.
- 7 Q. Sure. Do you have -- can you
- 8 tell me how many hours in total you have devoted
- 9 to these two particular matters?
- 10 A. In total, even beyond the
- 11 preparing for the deposition?
- 12 Q. Yes, sir.
- 13 A. I'm sorry. I don't remember that
- 14 either.
- Do you know if it's more than 50
- 16 hours?
- 17 A. I don't remember. I'm sorry.
- 18 Q. I want to mark two exhibits just
- 19 for -- so they're in the record. These are not
- 20 going to be among the documents in front of you.
- 21 These are just your notices of
- deposition, which are paper 15 from both IPRs.
- I am assuming from what you've told me, you do
- 24 not have those in front of you; is that correct?
- 25 A. Correct.

- 1 Q. They are in Box 1 that we
- 2 shipped, and if you are able to open Box 1, they
- 3 would be in the first file folder to the left.
- A. I'm not sure which one is Box 1.
- 5 Q. Is there a green tear sheet in
- 6 the box you just opened on top?
- 7 A. Not that I see. I don't see a
- 8 green tear sheet.
- 9 Q. Okay. Can you open the Sir
- 10 Speedy box, then, the red box, please.
- 11 A. There's some tape here. I've
- 12 just opened it.
- 13 Q. There should be two papers, they
- 14 just will say patent owner's notice of
- 15 deposition of Dave Levin.
- 16 A. I see -- I see one stapled
- 17 document with three pages that says that, and
- 18 that refers to case IPR2022-00138.
- 19 Q. Sure. And there should be
- another one just like it for the 135 case.
- 21 A. Yes, I have the notice.
- Q. Okay. All right. So for the
- 23 record -- and thank you for retrieving those
- 24 from the box. These are both marked in the IPRs
- 25 as paper 15 and these are the notices of

- 1 deposition that patent owners served for your
- deposition today, for both IPRs, the 135 case
- 3 and the 138 case.
- 4 And my question is, sir, have you
- 5 seen these notices of deposition before?
- A. I have not.
- 7 Q. You do understand you're
- 8 testifying here today in response to these
- 9 notices to give testimony about the opinions
- 10 you've rendered in the two IPRs, the 135 IPR and
- 11 the 138 IPR, correct?
- 12 A. That's my understanding, yes.
- 13 Q. So today your testimony is just
- 14 as if you were in court under oath in front of a
- 15 tribunal. You understand that, correct?
- 16 A. I understand.
- 17 Q. Okay. Thank you. That is --
- 18 that is the bulk of my housekeeping, so you can
- 19 certainly place those notices aside now.
- 20 A. Thank you.
- Q. What I would like to do now is
- 22 proceed to asking you some questions about some
- 23 things you've made in statements in your
- 24 declarations, and for convenience, I'm going to
- 25 work primarily from your declaration in the 135

- 1 IPR, and that is Exhibit No. 1003 from the IPR.
- 2 So if you could get that
- 3 declaration handy, that would be great. And
- 4 this would be the declaration on the '319
- 5 patent.
- A. I have that declaration in front
- 7 of me.
- 8 Q. Okay. Before I get into the
- 9 substance, did you draft your declarations in
- 10 this case?
- 11 A. Yes, I did. There were some
- 12 parts of it, especially the quite specifics
- 13 legal background part. I'm not a lawyer, I'm
- 14 not trained in the law. I did not write the
- 15 first draft of that, the lawyers did, but I read
- 16 it, I understand it, and this is my report and I
- 17 know I'm going to have to answer questions about
- 18 it.
- 19 Q. Did you draft the remaining
- 20 portions of the declarations, besides the legal
- 21 section, as you've just explained?
- A. Yes, there may have been a couple
- 23 small parts. So again, there's some legalese
- 24 here and there in terms of the specific wording
- 25 of that, that I had -- I may have not drafted

- 1 initially or may have had some help with.
- 2 Things also like the references, I didn't fill
- 3 in the exact reference numbers to reference
- 4 paragraphs. There are some things that worked
- 5 with that, but, yes, I did.
- 6 Q. Okay. We had received an email
- 7 from Mr. Wichman on July 19th at 6:26 p.m.,
- 8 indicating several corrections that you had
- 9 wished to make to your declarations, and my
- 10 question is --
- MR. WICHMAN: Objection.
- MR. DUNHAM: Pardon?
- MR. WICHMAN: That's misstating
- 14 the record. He identified two typographic
- 15 errors.
- 16 BY MR. DUNHAM:
- 17 Q. Well, are those errors you wish
- 18 to correct in your report, sir?
- 19 A. I don't recall exactly which
- 20 errors you're -- which typographic errors you
- 21 are referring to.
- Q. Well, sir, then, sitting here
- 23 today, are there any corrections that you would
- 24 wish to make to either of your declarations?
- 25 A. I -- if I recall correctly, there

- was an email about -- I believe it was paragraph
- 2 319, if I recall correctly, where I had some
- 3 claim numbers that were incorrect. I think that
- 4 was clarified by the attorney. I think that's
- 5 the typographical error that you are referring
- 6 to.
- 7 I noticed a couple of other -- in
- 8 going back and preparing for this deposition and
- 9 preparing my declaration, I noticed a few other
- 10 small typographic errors. I think at one point,
- 11 for example, I wrote ETDX referring to the
- 12 Eastern District Court of Texas or the EDTX,
- 13 little typographic errors like that that -- I
- 14 think it's still clear from the context what I
- 15 was referring to.
- 16 But that one, in terms of the
- 17 claim numbers, I think that's perhaps the
- 18 typographical error that you're referring to and
- 19 I did want that corrected.
- 20 Q. So other than the error that you
- 21 testified about that was captured by the email
- 22 that counsel sent and maybe some ministerial
- 23 errors of naming the Court in Texas, were there
- 24 any other corrections you wish to make to your
- 25 declarations today?

- 1 A. No, just like I said, small
- 2 little typographical errors, but the context I
- 3 think still remains clear. But those are the
- 4 only ones that I recall at this time.
- 5 Q. I'd like you to turn to paragraph
- 6 21 of your declaration, and again, for
- 7 convenience, we're working out of the
- 8 declaration in the 135 IPR.
- 9 And if it's helpful, please take
- 10 a moment to review that paragraph.
- 11 A. Okay. I've read the paragraph.
- 12 Q. Sir, are you relying on inherency
- 13 to support any of your opinions as to
- 14 anticipation?
- MR. WICHMAN: Objection. Calls
- 16 for a legal --
- 17 THE WITNESS: I understand
- 18 "inherency" to be a legal term. I'm not a
- 19 lawyer. I don't think I can really speak
- 20 definitively to that. As I recall through my
- 21 declaration, I mainly use "obviousness," but
- 22 again, I'm not -- I'm not a lawyer, so if -- if
- 23 there's a specific, like, technical legal
- 24 question about notion of inherency, I'm not sure
- 25 I understand the question.

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1 BY MR. DUNHAM:
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- Q. Well, sir, in your declaration,
- 3 you say that: "Each and every limitation must
- 4 be satisfied, expressly, or inherently, and the
- 5 subject matter provided by a single prior art
- 6 reference."
- 7 Do you see that language?
- 8 A. I see that.
- 9 Q. And my question is: In your
- 10 analysis, did you find each and every limitation
- 11 to be expressly disclosed, or did you rely on
- 12 inherency to support your anticipation opinions?
- 13 MR. WICHMAN: Objection. Form.
- 14 Calls for a legal conclusion.
- 15 THE WITNESS: Again, these are
- 16 legal terms. I'm not sure exactly what the
- 17 question is. Throughout my -- if there's a
- 18 specific part of the declaration, a specific
- 19 part of my declaration where I'm drawing a
- 20 conclusion that you -- that you're asking about,
- 21 that you'd like to ask about, which is whether I
- 22 implied that it was satisfied expressly or
- 23 inherently, I'm happy to try to answer that.
- 24 BY MR. DUNHAM:
- Q. So is the answer, you're not sure

- 1 if you relied on inherency in any of our
- 2 opinions on anticipation?
- A. I -- I don't recall a specific
- 4 use of inherency. I remember speaking to
- 5 obviousness.
- 6 Q. Okay. If you look further down
- 7 in that same paragraph, you reference disclosing
- 8 the limitation based on inferences that a POSA
- 9 would reasonably be expected to draw from the
- 10 explicit teachings.
- 11 Do you see that reference in
- 12 paragraph 21?
- 13 A. Yes.
- 14 Q. What did you mean by that?
- 15 A. What I meant -- this is a lot of
- 16 legalese. I just want to make sure I answer
- 17 your question to the best of my ability.
- 18 What did I mean when I said -- I
- 19 understood the last part -- based on inference
- 20 is --
- 21 (Court reporter seeks
- 22 clarification.)
- 23 THE WITNESS: Actually, would you
- 24 mind reading back the question to me, please.
- 25 (Pertinent portion of the record

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1
       is read back.)
 2
                         THE WITNESS:
                                       By that, I believe
       that was in relation to inferences that a person
 3
       of ordinary skill in the art would reasonably be
 4
 5
       expected to draw from the explicit teachings of
 6
       the reference when read in the context provided
7
       by the person of ordinary skill in the art.
 8
                          (Court reporter seeks
       clarification.)
 9
10
                         THE WITNESS: As I understand,
11
       the question was, what did I mean by "that,"
12
       where "that" was referring to inferences that a
       person of ordinary skill in the art would
13
14
       reasonably be expected to draw from the explicit
15
       teachings in the reference when read in the
16
       context provided by the person of ordinary skill
17
       in the arts, knowledge, and experience.
18
                         So as I understand that, it means
19
       that a person of ordinary skill in the art at
20
       the time would read the reference and the
21
       specification and under what I, as an expert,
22
       believe a person of ordinary skill in the art at
23
       the time would understand and know at the time
24
       that also what, what they would -- what they
25
       would infer from a patent, in terms of what it
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- 1 means, what problems it raises, how it might
- 2 combine with other -- other work that was known
- 3 at the time. That's -- that's my understanding
- 4 of it.
- 5 BY MR. DURHAM:
- 6 Q. Sir, in paragraph 22 of your
- 7 declaration, you describe your understanding of
- 8 when a limitation may be inherent, and you refer
- 9 to the phrase: "A claim limitation is inherent
- 10 in a prior art reference if that limitation is
- 11 necessarily present when practicing the
- 12 teachings of the reference," and the paragraph
- 13 goes on from there.
- 14 Are you relying on an element
- 15 being necessarily present, as opposed to
- 16 expressly disclosed in a reference to support
- 17 any of your opinions as to anticipation?
- 18 A. I don't recall any instances
- 19 where I am relying on it being necessarily
- 20 present. If there's a specific claim or a
- 21 specific paragraph from my declaration you'd
- 22 like to ask about, I'd be happy to. But off the
- 23 top of my head, I can't think of one.
- Q. Is it your understanding, sir,
- 25 that even if a person of ordinary skill in the

- 1 art would not recognize the presence of a
- 2 limitation in a prior art reference, that
- 3 limitation may still be present for purposes of
- 4 anticipation?
- 5 A. May I please have that question
- 6 read back to me?
- 7 Q. Sure. Is it your position that
- 8 even if a person of ordinary skill in the art
- 9 would not recognize the presence of limitation
- 10 in a prior art reference, that limitation may
- 11 still be present for purposes of anticipation?
- 12 A. If I'm understanding the question
- 13 correctly, I believe that's what I say in my
- 14 paragraph 22. I say: "I understand that the
- 15 claim limitation is inherent in a prior art
- 16 reference if that limitation is necessarily
- 17 present when practicing the teachings of the
- 18 reference, regardless of whether a person of
- 19 ordinary skill in the art recognizes the
- 20 presence of that limitation in the prior art."
- 21 So as it pertains to inherency,
- 22 that sounds like my paragraph 22.
- 23 Q. If you could take a look at
- 24 paragraph 27, sir. And if you'd like to take a
- 25 moment to read it to yourself, that's fine.

- 1 A. I've read it.
- 2 Q. Sir, would you agree that when
- 3 combining references in an obviousness
- 4 combination, if the function of an element were
- 5 to change in the proposed combination, then such
- 6 a combination would be improper?
- 7 MR. WICHMAN: Objection. Calls
- 8 for a legal conclusion.
- 9 (Court reporter seeks
- 10 clarification.)
- 11 THE WITNESS: Can I have that
- 12 question read back to me one more time?
- 13 BY MR. DUNHAM:
- 14 Q. I'll repeat it for you, sir.
- 15 Would you agree that when
- 16 combining references in an obviousness
- 17 combination, if the function of an element were
- 18 to change in the proposed combination, then such
- 19 a combination would be improper?
- 20 MR. WICHMAN: Objection. Calls
- 21 for a legal conclusion.
- 22 THE WITNESS: I don't know the
- 23 answer to that question, as I'm not a lawyer. I
- 24 do know from my paragraph 27, that if the -- if
- 25 there's no change in their respective functions,

- 1 then the combination would have yielded -- I'm
- 2 sorry, I'm sorry.
- 3 That -- it's my understanding
- 4 that a patent claim is invalid as obvious if the
- 5 claimed elements were known in the prior art,
- 6 one skilled in the art would have combined the
- 7 elements as claimed by the methods with no
- 8 change in their respective functions, and that
- 9 the combination would have yielded nothing more
- 10 than predictable results.
- 11 So since we are describing the
- 12 same thing, then yes.
- 13 BY MR. DUNHAM:
- 14 Q. If you could please -- if you'd
- 15 like to read paragraph 28 to yourself, that's
- 16 fine. I just have a couple of questions about
- 17 it.
- A. Sure. Okay.
- 19 Q. I'm mostly going to focus on the
- last bullet in paragraph 28, if that helps you
- 21 orient yourself, and my first question, sir, is:
- 22 In performing your obviousness analysis, did you
- 23 read every word of each reference that you
- 24 relied upon?
- A. I believe that I did, though I

- 1 certainly have not committed them to memory.
- 2 Q. Did you consider portions of the
- 3 references that taught away from your proposed
- 4 combinations?
- 5 MR. WICHMAN: Objection. Calls
- 6 for a legal conclusion.
- 7 THE WITNESS: I'm not sure I
- 8 recall any parts that taught away. I would have
- 9 considered the entire references, but it seems
- 10 to be presupposing that there are parts that
- 11 taught away the combination, and I'm not
- 12 familiar that any part of the prior art did
- 13 that.
- 14 BY MR. DUNHAM:
- 15 Q. It's your understanding that in
- 16 an obviousness analysis, in order to modify the
- 17 prior art reference which combined more than one
- 18 prior art reference, there must be some
- 19 teaching, suggestion, or motivation in the prior
- 20 art?
- MR. WICHMAN: Objection.
- 22 THE WITNESS: It is my
- 23 understanding that -- that that is one -- that's
- 24 one relevant consideration for motivation, that
- 25 it was taught in the prior art, but it's also my

- 1 understanding that that motivation could have
- 2 been clear to a person of ordinary skill
- 3 through, through -- it would have been clear to
- 4 a person of ordinary skill.
- 5 BY MR. DUNHAM:
- Q. Is it your understanding, then,
- 7 that the motivation to combine can come solely
- 8 from outside of the references sought to be
- 9 modified or combined?
- 10 A. I'm not sure I quite understand
- 11 the question. The motivation -- I mentioned
- 12 it's all within the context of the --
- 13 (Court reporter seeks
- 14 clarification.)
- 15 THE WITNESS: Can I have the
- 16 question read back to me, please?
- 17 BY MR. DUNHAM:
- 18 Q. I'll repeat it. My question,
- 19 sir, is then, is it your understanding that the
- 20 motivation can come solely from outside of the
- 21 references sought to be modified or combined?
- A. I'm not sure exactly what "solely
- 23 from outside" means.
- Q. In other words, sir, if there's
- 25 no teaching, suggestion, or motivation inside

- 1 the references themselves that you seek to
- 2 combine, can that motivation to combine come
- 3 solely from some other source?
- A. I believe -- I believe, from my
- 5 paragraph 28, that it is possible as, for
- 6 example, a person -- there was a use of a known
- 7 technique to improve similar devices, methods,
- 8 or products in the same way.
- 9 So even if -- my understanding of
- 10 that is that in that hypothetical situation
- 11 where the patent -- the prior art -- I'm not
- 12 sure I quite understand the question still.
- 13 Solely from outside of the prior
- 14 art or solely from outside of the patent that
- 15 you're trying to combine with. I'm sorry, I
- 16 don't understand your question.
- 17 Q. You're on to it. The question
- 18 is: Can the motivation to combine or modify
- 19 come solely from outside the references that you
- 20 actually seek to modify or combine?
- MR. WICHMAN: Objection.
- 22 BY MR. DUNHAM:
- Q. If you're speaking, sir, we're
- 24 not receiving audio.
- 25 A. Yeah, sorry. I'm just repeating

- 1 the question back to myself.
- 2 From my understanding in my
- 3 paragraph 28 -- if it was -- there was a known
- 4 technique to improve similar devices, methods,
- 5 or products in the same way, if it was known to
- 6 someone of ordinary skill at the time, if the
- 7 references themselves, as I understand it, if
- 8 they didn't expressly articulate or teach it, if
- 9 it was known to someone of ordinary skill, that
- 10 -- I believe that that would have sufficed in
- 11 that hypothetical situation.
- 12 Q. Would you please turn to
- 13 paragraph 141 of your declaration.
- 14 A. I'm at 141 of the declaration for
- 15 the '319 patent.
- 16 Q. Sure. If you notice in that
- 17 paragraph, you state: "I was asked to compare
- 18 the challenged claims to the disclosures in the
- 19 Plamondon RFC 2616, RFC 1122, IEEE 802.11-2007,
- 20 Price and Kozat references."
- 21 Do you see that?
- 22 A. I do.
- Q. In performing your analysis, did
- you look at the claims, the challenged claims
- 25 from the patents at issue and then try to find

- 1 where those particular limitations from the
- 2 claims appeared in the various prior art
- 3 references?
- 4 MR. WICHMAN: Objection. Form.
- 5 THE WITNESS: I read the
- 6 challenged claims, I compared them to the
- 7 disclosures of Plamondon and those other
- 8 references you just mentioned.
- 9 BY MR. DUNHAM:
- 10 Q. Again, I'm trying to understand
- 11 the way you did your analysis, sir, and that's
- 12 my question.
- 13 So let me ask you another
- 14 question, for example, with respect to paragraph
- 15 142.
- In 142, in part, you indicate you
- 17 were asked to provide your opinion whether
- 18 Plamondon describes subject matter that
- 19 satisfies the limitations in each challenged
- 20 claim.
- 21 Do you see that?
- 22 A. I see that.
- Q. And I'm just trying to understand
- 24 your analysis. So to do your analysis, did you
- 25 start with the language of the claim and then

- 1 look at the Plamondon reference to see if it
- 2 disclosed each subject matter that satisfied the
- 3 limitation from the claim?
- A. As part of my analysis, yes, I
- 5 looked at every part of -- of each of the
- 6 challenged claims and -- and compared that to
- 7 Plamondon and the other references for subject
- 8 matter that satisfied the limitations in each of
- 9 the challenged claims.
- 10 Q. Okay. So, and again, let's talk
- 11 about your obviousness analysis for a moment.
- 12 So to do your obviousness
- 13 analysis, did you start with the claims, look at
- 14 the language of the claim and then for each
- 15 claim, look at the different pieces of prior art
- 16 to see if those limitations were disclosed in
- 17 some combination of the prior art?
- 18 A. That wasn't the entirety of it.
- 19 In some cases, for example, there was claim
- 20 language that I had already recognized as being
- 21 known from some of these prior art references.
- 22 But then, of course, as -- for
- 23 the sake of the obviousness analysis, because I
- 24 had, as I understand, this comparison has to go
- 25 to show the satisfaction -- to show that it

- 1 satisfies the limitations in each of the
- 2 challenged claims, as part of that analysis,
- yes, for each part of the challenged claims, I
- 4 made sure to cite specific parts of these prior
- 5 art references, but -- but that was -- that was
- 6 done after having, you know, read and understood
- 7 these -- these references.
- 8 So, for example, this mentions
- 9 RFC 1122. I'm familiar with that. It's
- 10 something that I think a person of ordinary
- 11 skill could have been familiar with, I read that
- 12 ahead of time and still refamiliarized myself in
- its, you know, its breadth, in its entirety, but
- 14 then, of course, to show that each limitation is
- 15 met by this prior art, as certainly as part of
- 16 my analysis, I had to point to specific parts of
- 17 these prior art references, absolutely.
- 18 Q. Sure. And I understand at the
- 19 end of the work that you did, you lined up
- 20 different pieces of the references with the
- 21 different claim elements.
- 22 What I'm trying to understand is
- 23 more about the process of how you started the
- 24 analysis. So my question, sir, is, in starting
- 25 your analysis for anticipation or obviousness,

- 1 did you start by looking at the elements of the
- 2 claim and then go look for prior art that would
- 3 match up to each one of the elements?
- A. I was -- I'm sorry, you're asking
- 5 if that's what I did at the start of my
- 6 analysis?
- 7 Q. Yes, sir.
- 8 A. No, I don't recall doing it like
- 9 that. In some cases, I was asked to compare,
- 10 for instance, to Plamondon. I don't remember
- 11 the exact order in which I read various
- 12 documents, but -- but I tried to fully
- 13 understand Plamondon to the best of my ability
- 14 before I identified specific parts. I wanted to
- 15 understand this in context.
- 16 Q. Okay. So now, I want to focus
- for one more moment on your obviousness analysis
- where you were combining references, okay?
- 19 A. Okay.
- Q. My question is a process
- 21 question. When you were undertaking your
- 22 obviousness analysis to combine references, did
- 23 you start with any particular claim that you
- 24 were interested in, read the elements of that
- 25 claim, and then go look to see which combination

- of references might disclose those elements?
- A. I don't recall the exact process,
- 3 but I recall --
- 4 (Court reporter seeks
- 5 clarification.)
- 6 THE WITNESS: I recall trying to
- 7 understand, once I was familiar with all of
- 8 these different references and, you know,
- 9 refamiliarize myself with some of the ones that
- 10 I had -- I was already previously familiar with,
- 11 tried to understand the functionality of the
- 12 claim to understand how these things
- 13 functionally might combine, and then, of course,
- 14 as part of the analysis, would go through
- 15 limitation by limitation.
- 16 But if you're asking for, like,
- 17 precisely the order in which I read anything, I
- 18 don't remember off the top of my head. But
- 19 everything that I tried to do was always done,
- 20 you know, where I tried to understand fully what
- 21 these references are, so I really understood the
- 22 context so I wasn't, you know, taking something
- 23 out of context or anything like that or
- 24 misquoting or mischaracterizing.
- 25 I did my best to really try to

- 1 capture what these prior art references were
- 2 doing in the context of -- they were describing
- 3 as I would understand someone of ordinary skill
- 4 would have understood them at the time.
- 5 BY MR. DUNHAM:
- 6 Q. Sure. So let me ask it a little
- 7 different way. So did you identify the
- 8 particular combinations of references that you
- 9 settled upon just by reading the references
- 10 themselves, or did you use the claim as a
- 11 roadmap to figure out that the combination here
- 12 might be Plamondon plus, say, 802.11 or instead
- 13 of Plamondon plus Kozat.
- 14 How did you -- what I'm trying to
- get to is the process of how you ultimately
- 16 chose which combinations you made.
- 17 A. Ultimately, when I put the
- 18 combination in my declaration, I would only have
- 19 put in my declaration, as I think I clarified
- 20 and I'm happy to answer any questions.
- 21 Once I was sure that it did meet
- 22 all of the claim limitations, but there are many
- 23 instances where -- that in reading -- in reading
- 24 Plamondon, that it also just was obvious to me
- 25 that there were these problems that arose

- independent of the -- there was a -- the issues
- 2 that motivated the combinations as I read
- 3 Plamondon, these were obvious to me independent
- 4 of -- of the claim limitations as far as I
- 5 recall.
- 6 Q. Could you turn to paragraph 35 in
- 7 your declaration, please. And please feel free
- 8 to read that paragraph to yourself.
- 9 A. I've read it.
- 10 Q. So I noticed in paragraph 35 that
- 11 you mentioned working with the people who fit
- 12 the characteristics of a POSA and being familiar
- 13 with their level of skill in and around
- 14 October 2009.
- 15 And my question is: You did not
- 16 go so far as to say that you were a POSA.
- 17 So my question is first: Under
- 18 your definition of a POSA, did you qualify as a
- 19 person of ordinary skill in the art as of
- 20 October 2009?
- 21 A. So -- excuse me. I was asked to
- 22 apply a particular definition of a person of
- 23 ordinary skill in the art. I explained in my
- 24 paragraph 34 of that same declaration, page 17
- 25 of it, and I did add one slight assumption, one

- 1 extra assumption to that definition of a person
- 2 of ordinary skill in the art.
- 3 I mentioned there, you know,
- 4 assuming the person described by POSA's
- 5 definition had some training in networking, I
- 6 explained that around there. By this
- 7 definition, yeah -- by both definitions, yes, I
- 8 met the -- the definition of a person of
- 9 ordinary skill in the art at that time.
- 10 Q. As of October 2009, did you have
- 11 a Master's degree?
- 12 A. I did not.
- 13 Q. So to meet the definition, how do
- 14 you believe that you met the definition of a
- 15 person of ordinary skill in the art as of
- 16 October 2009?
- A. So in paragraph 32 of my
- 18 declaration, I say what the patent owner had
- 19 argued what a POSA was, and it was -- I'll just
- 20 read that real quick: "An individual who, as of
- October 8, 2009, had a Master's degree or higher
- in the field of electrical engineering, computer
- 23 engineering, or computer science, or, as of that
- 24 time, had a Bachelor's degree in at least one of
- 25 the same fields and two or more years of

- 1 experience in internet communications."
- 2 So I did not have a Master's
- 3 degree, so I didn't meet that first condition.
- 4 I would just say a Master's degree had not been
- 5 conferred upon me, but I actually met all of the
- 6 requirements for a Master's degree in computer
- 7 science at the University of Maryland.
- 8 To be honest, I made the personal
- 9 choice not to do the one last step, which was
- 10 fill out a form to get that Master's degree.
- I had been directly admitted into
- 12 the Ph.D. program and I decided at that point, I
- 13 did not want to have a Master's degree out of
- 14 fear that it would present to me an exit ramp
- 15 that I might say, yeah, I got a Master's degree,
- 16 that's enough, I won't finish the Ph.D. I
- 17 wanted to finish the Ph.D. I did finish the
- 18 Ph.D. In fact, I finished it less than a year
- 19 after October 8, 2009.
- 20 But back to the definition, as of
- 21 that time, had a Bachelor's degree in at least
- one of the same fields, computer science was one
- 23 of those fields. I had a Bachelor's degree in
- 24 computer science, and two or more years of
- 25 experience in internet communications.

```
1
                         So I had received my Bachelor's
 2
       degree in computer science from the University
 3
       of Maryland in 2002. This was seven years
       later. In that seven-year span -- actually,
 5
       while I was an undergraduate as well, I had
       interned at Motorola for a couple of years
 6
 7
       giving me experience in internet communications,
 8
       but in the seven years between when I graduated,
 9
       when I received my Bachelor's degree in computer
10
       science, until October 2009, I had, over those
11
       seven years, more than two years of experience
12
       in internet communications.
13
                         I think this is evidenced by the
14
       fact that I had -- but my sense of publication
15
       record through that time as a Ph.D. student, I
       published papers at -- prior to 2009, I
16
17
       published papers at the top networking venues,
18
       including a conference called ACM SIGCOMM,
19
       that's spelled S-I-G-C-O-M-M.
20
                         I referenced that in my CV.
21
       had, prior to 2009, prior to October 2009, I
22
       received a best paper award from the Network
23
       Systems Design and Implementation Conference,
24
       one of the top conferences in network systems.
25
       I had, for several years, if not more, prior to
```

- 2009, published papers on -- and again, it's
- 2 held conferences and workshops which are the
- 3 premier venues in computer science, on internet
- 4 communication, wireless communication, internet
- 5 routing, peer-to-peer networking.
- 6 So in these regards -- oh, also
- 7 at this time, I had been -- given invited talks.
- 8 I had been recognized, you know, with invited
- 9 talks and conferences for giving talks, I had
- 10 one, a Microsoft Live Labs fellowship for my --
- 11 based largely on my work in networking and
- 12 that's what ultimately led to me having two
- 13 summer internships with Microsoft.
- 14 So the one -- for the select few
- 15 folks who won this Microsoft Live Labs
- 16 fellowship, they were guaranteed an internship,
- 17 and I interned -- I don't remember the name of
- 18 their group, what it was called at the time, but
- 19 it was with other folks who also had met these
- 20 -- these criteria who did have Master's degrees
- 21 in these kinds of related fields and worked in
- 22 internet with experience in internet
- 23 communications.
- 24 So I think with my CV and with
- 25 these experiences, with the Bachelor's degree

- 1 and the years of experience in internet
- 2 communications, the fact that I was less than a
- 3 year from completing my Ph.D., that the Master's
- 4 degree is a subset, the requirements -- I'm
- 5 sorry, for the Master's degree of computer
- 6 science, at least at the University of Maryland
- 7 or some set of the requirements of the Ph.D., I
- 8 would have already completed those requirements
- 9 by that point.
- 10 For all of those reasons, I think
- 11 that I do meet the definition of a person of
- 12 ordinary skill in the art.
- 13 Q. At the bottom of paragraph 34 in
- 14 your declaration, you indicate that assuming the
- person described by the POSA's definition had
- 16 some training in networking -- and I'll ask you,
- 17 did you mean to say by the patent owner's
- 18 definition before I continue with my question?
- 19 A. I think I did mean that. I'm
- 20 sorry, based on your clarification, I think the
- 21 context was clear, but, yes, I do believe I
- 22 meant the patent owner.
- 23 Q. So with that correction, so
- 24 assuming the person described by the patent
- 25 owner's definition had some training in

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```
1
       networking, you say your analysis, conclusions
 2
       and opinions would not change if you applied
 3
       your definition rather than the one from the
       patent owner.
 5
                         Have you seen that?
 6
                A.
                         I see that, yes.
                0.
                         So my question is: What if the
       POSA did not have training in networking, under
 9
       the patent owner's definition, would your
10
       conclusions change?
11
                         So as I also say a little earlier
12
       in paragraph 34, I cannot comfortably say that a
       person with only a Master's degree in electrical
13
14
       engineering, for example, but no training
15
       whatsoever in networking, would have been able
16
       to understand, let alone apply the teachings of
       the '319 patent, and likewise for the '510, and
17
18
       I clarify here that -- in electrical engineering
19
       or for these different degrees that are listed
20
       by the patent owner's definition of a POSA,
21
       which again are electrical engineering, computer
22
       engineering, or computer science.
23
                        Electrical engineering, for
```

example, one could complete a Master's degree in

electrical engineering without ever taking a

24

25

- 1 networking class. You can take electrical --
- 2 you can choose electrical engineering courses
- 3 that are one hundred percent hardware and maybe
- 4 never learn the terms about networking.
- 5 So in that regard, if one doesn't
- 6 have -- didn't have, as I mentioned, at least
- 7 something equivalent to at least undergraduate
- 8 level class in networking, I'm not sure that
- 9 they would understand or be able to apply the
- 10 '319 patent's teachings.
- 11 Q. In connection with your analysis
- 12 in this matter, have you ever heard of the
- 13 patent owner either by its current name, Bright
- 14 Data, or its former name, Luminati?
- 15 A. I have heard of Luminati.
- 16 Q. What knowledge did you have of
- 17 Luminati?
- A. As a company, no real familiarity
- 19 with the company. One of their products, as I
- 20 understand it, in one of my papers that I
- 21 published prior to even learning about this
- 22 case, some of my collaborators had, for one of
- 23 the experiments in that paper, had used
- 24 Luminati, and again, I don't know the specific
- 25 name of the product, especially used Luminati.

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- I mean, that there was some

 Luminati products, I don't know, to perform some

 internal measurements. I wasn't involved in

 running that experiment, so I don't know the

 details. But to the extent that Luminati has a

 product that allows for that type of

 experimentation, that was my level of

 familiarity. But I -- I, myself, had not used
- it. 9 10 Do you know whether Luminati's 0. 11 products have been successful in the market? 12 I'm not sure what -- what you 13 mean by success. Again, my only familiarity was 14 that, for one of the experiments in my paper, 15 some of my colleagues had used some Luminati 16 products to -- to run an experiment, but I'm not 17 familiar with -- I can't really express any 18 familiarity with the products or what -- any 19 degree of success or not of -- in the market. 20 MR. DUNHAM: Okay. I promised 21 you a break every hour. We've been going just 22 over an hour, so why don't we take a ten-minute
- 24 THE WITNESS: I appreciate that.
 25 Thank you.

23

break.

Page 45 1 THE VIDEOGRAPHER: The time is 2 10:04 a.m., and we're now off the record. 3 (Recess taken.) (Discussion off the record.) 4 5 THE VIDEOGRAPHER: The time is 6 10:14 a.m., and we're now back on the record. 7 BY MR. DUNHAM: 8 Dr. Levin, during the break, did 9 you discuss your testimony with anyone? 10 A. No. 11 0. I'd like you to turn to paragraph 12 41 of your declaration, please. Is this still the declaration for 13 A. 14 the '319 patent? 15 Yes. I'm using that one as a 0. 16 proxy. 17 A. Right. I'm on paragraph 41. 18 I'm sorry, did you say 41? 0. 41, yes. 19 A. 20 0. In paragraph 41, you state: "Any 21 host that makes a request of another host could be considered a 'client.'" 22 23 Do you see that clause in the 24 paragraph? 25 A. I see that, yes.

1 Is that statement, that: "Any 0. 2 host that makes a request of another host could 3 be considered a client," is that consistent with your understanding of how a POSA understands the 4 5 term "client device" as used in the claims of 6 the '319 and '510 patent? 7 So I've been asked to apply a A. particular Court's construction of client device 8 9 as it pertains to these patents. In my 10 declaration, I also apply the patent owner's 11 construction, so that's the analysis that I was 12 -- that's the analysis that I did as it pertains to the claim. 13 14 Well, under what you've referred 15 to as the Court's construction, would you agree 16 that any host that makes a request of another host could be considered a client? 17 18 The terms -- the constructions A. 19 that I used that start on page 43 of that 20 declaration, where the Court construed client 21 device to be a communication device that is 22 operating in the role of a client. 23 So I just want to make sure that we're being really clear with the terms. I want 24 25 to make sure I'm understanding the question

- 1 correctly.
- 2 So a POSA would understand that a
- 3 host that makes a request of another host would
- 4 be acting in the role of a client.
- 5 Q. Okay. And that's what I'm trying
- 6 to get to.
- 7 And then in paragraph 41, your
- 8 declaration continues and says: "Any host that"
- 9 requests -- I'm sorry -- "Any host that services
- 10 the request of another could be considered a
- 11 server."
- 12 Do you see that language?
- 13 A. I do see that language.
- 14 O. Based on the Court's
- 15 constructions from this case for the '319 and
- 16 '510 patents, would you agree that the Court's
- 17 -- that your statement that: "Any host that
- 18 services the request of another could be
- 19 considered a server," would that be consistent
- 20 with the way you applied the Court's
- 21 construction?
- A. Again, just to make sure that we
- 23 get the language just right, that I would say,
- 24 as I put it, a POSA would understand that any
- 25 host that services the request of another host

- 1 would be acting in the role of a server.
- Q. Okay. Thank you.
- What I'd like you to do is take
- 4 out a copy of the '319 patent, if you have that,
- 5 sir. And that's Exhibit 1001 from the 135 IPR.
- 6 A. Would that be in your Sir Speedy
- 7 box?
- Q. Yes, it would be.
- 9 And I'm sorry, the video is
- 10 frozen again, so we are unable to see what
- 11 you're doing, so I apologize for not knowing
- 12 that you were trying to retrieve it.
- 13 A. I'm just -- should be coming
- 14 back. I'm just going through it and getting the
- 15 '319 patent. I've obtained this document.
- 16 Q. Great. So in performing your
- 17 analysis, did you review the '319 patent?
- 18 A. Yes, I did.
- 19 Q. And did you review the entirety
- of the '319 patent in performing your analysis?
- 21 A. Yes, I did.
- 22 Q. I would ask you to turn to figure
- 23 1 of the '319 patent.
- A. I'm on figure 1.
- Q. And in particular, I want to ask

- 1 you some questions about the relationship of
- 2 certain of the elements that are shown, and I'll
- 3 call your attention to those particular
- 4 elements.
- 5 So if you could look at client
- 6 device 14, client device 16, proxy server 6, and
- 7 web server 32.
- 8 Do you see those particular
- 9 elements?
- 10 A. I do.
- 11 Q. And, sir, when I direct you to
- 12 something like that, please feel free to review
- any other portions of the document that you'd
- 14 like that will be helpful. I'm not trying to
- 15 prevent you from looking at anything, I'm just
- 16 trying to help focus your attention. Is that
- 17 understood?
- 18 A. Yes, thank you. I appreciate
- 19 that.
- 20 Q. So again, with reference to
- 21 figure 1, is it your understanding that
- 22 according to the '319 patent, client device 14
- 23 can send a request for content to proxy server
- 24 6?
- A. Can I have the question read back

- 1 to me, please?
- Q. Certainly. Is it your
- 3 understanding that, according to the '319
- 4 patent, client device 14 can send a request for
- 5 content to proxy server 6?
- 6 A. I'm not sure I completely agree
- 7 with that characterization, because I'm not sure
- 8 what part of the '319 patent you're referring
- 9 to.
- 10 As the '319 patent notes at the
- 11 bottom of column 3 of the '319 patent, it says
- 12 that: "Figure 1 is a schematic diagram
- 13 providing prior art example of use of a proxy
- 14 within a network."
- 15 So if you're referring to -- I'm
- 16 not sure which part of the '319 patent you're
- 17 talking about. If you're talking about the
- 18 invention or the claims, then I'm not sure that
- 19 it is applying to this figure. I wouldn't
- 20 necessarily characterize it that way, because it
- 21 clearly says that -- this is talking about prior
- 22 art.
- 23 But if your question is about
- 24 what prior art did, I can try to answer that
- 25 question.

- 1 Q. Sure. My question is trying to
- 2 get your understanding of figure 1.
- 3 And my question is: Reviewing
- 4 figure 1 of the '319 patent, do you understand
- 5 that client device 14 can send a request for
- 6 content to proxy server 6?
- 7 A. My understanding is, in the
- 8 context of this prior work that, yes, a client
- 9 device would send a request to proxy server 6.
- 10 Q. Okay. Thank you.
- 11 At the point in time when client
- 12 device 14 sends a request for context to proxy
- 13 server 6, would it be your opinion that client
- 14 device 14 was operating in the role of a client?
- A. At that particular time on
- 16 sending the request, I would say client device
- 17 14 at that particular point, in that particular
- 18 context, again, as it pertains to this prior
- 19 work would be acting in the role -- I'm sorry,
- 20 operating in the role of a client.
- Q. Okay. And when proxy server 6
- 22 receives a request for content from client
- 23 device 14, would proxy server 6 be operating in
- 24 the role of a server?
- A. I'm not sure I completely agree

- 1 with that characterization, just receiving a
- 2 request alone. I wouldn't say it means that
- 3 somebody is necessarily operating in the role of
- 4 a server. I could send a packet hypothetically
- 5 to some computer that is not running any
- 6 software that influences a server, and if I had
- 7 just received it, that alone might not be acting
- 8 in the role as a server, but as part of like a
- 9 bigger set of things -- so just receiving alone
- 10 would not necessarily constitute that. It kind
- 11 of depends on the context, but I would say
- 12 that's part of -- part of that process.
- 13 Q. Let me see if this helps. I want
- 14 to give some more context to you.
- 15 A. All right.
- 16 Q. So if client device 14 sends a
- 17 request for content to proxy server 6, at the
- 18 time that proxy server 6 receives the request
- 19 for content, would you understand that proxy
- 20 server 6 is acting in the role of -- of a
- 21 server?
- 22 A. It's part of the role of acting
- 23 as a server.
- Q. Okay. Now, is it your
- 25 understanding of figure 1 that when proxy server

- 1 6 receives a request for content from client
- 2 device 14, proxy server 6 can send that request
- 3 for content on to web server 32?
- A. Again, in this context of this
- 5 being a figure from describing prior art, that
- 6 is my understanding.
- 7 Q. Okay. At the point in time that
- 8 proxy server 6 sends a request for content to
- 9 web server 32, would you agree that proxy server
- 10 6 is acting in the role of a client?
- 11 A. Yeah. And this is -- just to be
- 12 clear, this is a figure from -- describing prior
- 13 art, but when proxy server 6 sends a request and
- 14 so much as proxy server 6 sends a request to web
- 15 server 32, yes, I would say that is acting in
- 16 the role of a client at that point in time.
- 17 Q. Okay. And is it your
- 18 understanding, then, that web server 32 can
- 19 receive requests for content from proxy server
- 20 6?
- 21 A. That is my understanding.
- Q. Okay. At the point in time when
- 23 web server 32 receives a request for content
- 24 from proxy server 6, is web server -- is web
- 25 server 32 acting in the role of a server?

- A. As I mentioned previously, that's
- 2 part of -- part of it acting in the role of a
- 3 server.
- Q. Well, would you say that web
- 5 server 32 is acting in the role of a client
- 6 device when it receives a request for content
- 7 from proxy server 6?
- 8 A. I'm sorry for speaking over you a
- 9 little bit there.
- 10 No, I would not say that.
- 11 Q. Okay. Now, is it your
- 12 understanding that, according to the system
- 13 shown in figure 1, web server 32, upon receiving
- 14 a request for content from proxy server 6, would
- 15 send a response to proxy server 6?
- 16 A. It's my understanding, of course,
- if it's a well-formed request and there aren't
- 18 any other issues, that generally speaking, in
- 19 this figure describing prior art, that the web
- 20 server would respond back with a -- with a
- 21 response to the request that the proxy server
- 22 had sent.
- Q. At the point that web server 32
- 24 sends a response back to proxy server 6 in
- 25 response to the request for content that web

- 1 server 32 received, would it be your
- 2 understanding that web server 32 is operating in
- 3 the role of a server?
- 4 A. That would be my understanding,
- 5 that -- when it's sending the response, yes.
- 6 Q. And when proxy server 6 receives
- 7 the response from web server 32 and then in turn
- 8 sends that response back to client device 14,
- 9 would it be your understanding that proxy server
- 10 6 is then acting in the role of a server?
- 11 A. Well, you -- your question sort
- 12 of combined two different steps.
- When the proxy server is
- 14 receiving the response from the web server 32,
- 15 there, it's -- I would say it's acting in the
- 16 role of a client, and then when it sends that
- 17 response -- I think you said that it would be
- 18 forwarding that response, if I recall your --
- 19 your wording, when it sends that response to
- 20 client device 14, at that point, for that step,
- 21 it would be acting in the role of a server.
- Q. Okay, Thank you. And thank you
- 23 for that clarification.
- 24 Can we turn to figure 3 of the
- 25 '319 patent, please.

- 1 A. Yes, I'm there.
- Q. And just to help focus our
- discussion, feel free to refer to anything you'd
- 4 like to, but I wanted to focus initially on
- 5 client 102, agent 122, and web server 152.
- 6 Do you see that?
- 7 A. I see that, yes.
- 8 Q. Is it your understanding then
- 9 that as shown in figure 3, client 102 can send a
- 10 request for content to agent 122?
- 11 A. Yes, it's my understanding client
- 12 102 can send a request to agent 122.
- 13 Q. Okay. At that point in time,
- 14 sir, when client 102 sends a request for content
- 15 to agent 122, is client 102 operating in the
- 16 role of a client device or a server?
- A. At that point in time, it is
- 18 acting in the role of a client.
- 19 Q. Okay. And when agent 122
- 20 receives a request for content from client 102,
- 21 is it your understanding that agent 122 is
- 22 operating in the role of a server?
- A. As I mentioned, the context of
- 24 figure 1, that is part of agent 122 acting in
- 25 the role of a server.

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1 Q. Okay. And then further,
```

- 2 sir, again, with reference to figure 3, when
- 3 agent 122 sends a request for content to web
- 4 server 152, is it your understanding that agent
- 5 122 is now operating in the role of a client
- 6 device?
- 7 A. Yes.
- Q. Okay. So when web server 152
- 9 receives a request for content from agent 122,
- 10 is it your understanding that agent -- I'm
- 11 sorry, that web server 152 is operating in the
- 12 role of a server?
- A. As part of its -- as part of its
- 14 actions, it's operating in the role of a server.
- 15 Q. And you would agree that web
- 16 server 152 at that point in time is not
- operating in the role of a client device?
- 18 A. Yes.
- 19 Q. Now, if -- when -- at the point
- in time when web server 152 sends a response to
- 21 agent 122, what role is web server 152 operating
- 22 in?
- 23 A. When 152 sends a response to
- agent 122, it's operating in the role of a
- 25 server.

- 1 Q. And when agent 122 receives a
- 2 response from web server 152, what role is agent
- 3 122 operating in?
- A. At that point in time, when it's
- 5 receiving a response from web server 152, I
- 6 would say it is operating in the role of a
- 7 client.
- 8 Q. Okay. And then if agent 122
- 9 returns that response back to client 102, at
- 10 that point in time, what role is agent 122
- 11 operating in?
- 12 A. When 122 is sending a response to
- 13 client 102, at that point, it is operating in
- 14 the role of a server.
- 15 Q. Okay. And when client 102
- 16 receives the response from agent 122, what role
- 17 would you understand client 102 to be operating
- 18 in?
- 19 A. At that particular time, client
- 20 102 would be operating in the role of a client.
- 21 Q. So would it be your
- 22 understanding, then, that agent 122 is operating
- 23 in the role of a server when it receives
- 24 requests from client 102, but agent 122 is
- 25 operating in the role of a client device when it

- sends requests to web server 152?
- 2 A. Yes.
- 3 Q. Okay. Would you please take out
- 4 the Exhibit 1010, which is the published patent
- 5 application, that I think today we're referring
- 6 to as Plamondon.
- 7 A. I have that.
- 8 Q. Okay. We've been calling it
- 9 Plamondon, so if I mispronounce it, I'm not sure
- 10 which one is correct, please understand whether
- I say Plamondon or Plamondon, my intent is to
- 12 refer to published United States Patent
- Application 2008/0228938, which has been marked
- 14 as Exhibit 1010 in these proceedings.
- 15 Can we agree that either
- 16 pronunciation will refer to this same particular
- 17 reference?
- 18 A. I can agree to that. I think I
- 19 tend to call it Plamondon.
- Q. Okay. We'll have three
- 21 variations, but I will understand also if you
- 22 refer to it in that fashion.
- 23 In connection with performing
- 24 your analysis in this matter, did you review the
- 25 Plamondon reference?

- 1 A. Yes, I did.
- Q. And did you review the entirety
- 3 of the reference?
- A. Yes, I did.
- 5 Q. Okay. I'd like you to turn to
- 6 figure 1C of Plamondon.
- 7 A. Okay. I'm on 1C.
- 8 Q. And initially, I'd like to focus
- 9 on the top portion, the upper portion of figure
- 10 1C, and just for reference, the portion that
- 11 shows client 102 communicating through network
- 12 104 with appliance 200, which in turn
- 13 communicates to network 104 prime with server
- 14 106.
- Do you see that portion of the
- 16 figure?
- 17 A. I see that, yes.
- 18 Q. Again, feel free to refer to any
- 19 other portions of the document as helpful to you
- in answering my questions, but I just wanted to
- 21 focus you for orientation purposes on what I'm
- 22 going to focus my questioning on.
- 23 Is it your understanding that
- 24 according to Plamondon, as shown in figure 1C,
- 25 client 102 can send requests for content

- 1 directed to server 106?
- A. My understanding is that it can
- 3 send requests for content directly to server
- 4 106, yes.
- 5 Q. Okay. And if client 102 sends a
- 6 request for content that is directed to server
- 7 106, is it your understanding that appliance 200
- 8 intercepts that request?
- 9 A. That it can intercept that
- 10 request, yes.
- 11 Q. Okay. At the point in time when
- 12 client 102 sends a request for content, is
- 13 client 102 acting in the role of a client device
- 14 or a server?
- A. At that particular time, it is
- 16 operating in the role of a client.
- 17 Q. Okay. Now, if client 102 sends a
- 18 request for content and appliance 200 intercepts
- 19 that request, at the time that appliance 200
- 20 intercepts the request, would you say appliance
- 21 200 is operating in the role of a client or a
- 22 server?
- 23 A. As I mentioned in the previous
- 24 questions, I would say that that's part of its
- 25 role of operating in the role of a server.

- 1 Q. Okay. Is it further
- 2 your understanding, then, that after appliance
- 3 200 has intercepted a request from client 102,
- 4 appliance 200 can send that request on to server
- 5 106?
- 6 A. Yes, that's my understanding.
- 7 Q. At the point in time when
- 8 appliance 200 sends a request for content to
- 9 server 106, is appliance 200 operating in the
- 10 role of a client device or a server?
- A. At that point in time, I would
- 12 say it's operating in the role of a client.
- 13 Q. And then it's your understanding
- 14 that server 106 will receive the requests that
- were transmitted by appliance 200; is that
- 16 right?
- A. Generally speaking, yes.
- 18 Q. Okay. At the point in time that
- 19 server 106 receives a request for content from
- 20 appliance 200, would server 106 be operating in
- 21 the role of a server or a client?
- A. At that point, I would say it's
- 23 part of its operations as -- part of its role of
- 24 operating in the role of a server.
- Q. Okay. And is it your

- 1 understanding, then, that server 106 can send a
- 2 response to appliance 200, and meaning a
- 3 response after receiving a request for content?
- A. Yes, generally speaking, yes.
- 5 Q. At the point in time that server
- 6 106 provides a response to appliance 200 for a
- 7 request for content, what role would you say
- 8 server 106 is operating under, within the
- 9 meaning of these client device and server terms
- 10 that we're discussing?
- 11 A. Within this context, I would say
- 12 that server 106 is operating in the role of a
- 13 server.
- 14 Q. Okay. And when appliance 200
- 15 receives a response from server 106, is
- 16 appliance 200 then operating in the role of a
- 17 client or a server?
- 18 A. It's operating in the role of a
- 19 client.
- Q. Okay. And then at the point in
- 21 time that appliance 200 sends that received
- 22 response back to client 102, is appliance 200
- 23 operating in the role of a client or a server?
- A. At that point in time, when
- 25 appliance 200 sends the content or the response

- 1 to client 102, appliance 200 is operating in the
- 2 role of a server.
- Q. Okay. And then when client 102
- 4 receives the response with the content from
- 5 appliance 200, is client 102 operating in the
- 6 role of a client or a server?
- 7 A. At that point in time, client 102
- 8 would be operating in the role of a client.
- 9 Q. Okay. I'd like you to turn now
- 10 in Plamondon to figure 1A.
- 11 A. I'm on that figure.
- 12 Q. And again, for convenience, I'm
- 13 going to identify particular network elements so
- 14 we can sort of walk through the same flow, but
- 15 feel free to review -- refer to as much of the
- 16 document as you need, but I'd like to initially
- focus on the pathway from client 102B through
- 18 network 104, to appliance 200, through network
- 19 104 prime to appliance 200 prime, through
- 20 network 104 double prime to server 106B.
- 21 Do you see that particular
- 22 pathway?
- 23 A. Yes, I do.
- Q. Is it your understanding that in
- 25 Plamondon, client 102B can send requests for

- 1 content directly to server 106B?
- 2 A. Yes, that's my understanding.
- Q. At the point in time that client
- 4 102B sends a request for content, is client 102B
- 5 acting in the role of a client or a server?
- A. At that point in time, it's
- 7 acting -- it's operating in the role of a
- 8 client.
- 9 Q. Okay. Is it your understanding
- 10 that appliance 200 can intercept a request that
- 11 client 102B has directed to server 106B?
- 12 A. That is my understanding.
- 13 Q. At the point in time when
- 14 appliance 200 intercepts a request for content
- 15 that originated at client 102B, is appliance 200
- 16 operating in the role of a client or a server?
- A. As I mentioned in -- with these
- 18 previous questions pertaining to the previous
- 19 figures, I would say that's part of its role as
- 20 operating as a server.
- Q. Okay. Is it your understanding
- 22 further that once appliance 200 has received --
- 23 strike that. Let me start that question again.
- 24 Is it further your understanding
- 25 that once appliance 200 has intercepted a

- 1 request for content from client 102B, that
- 2 appliance 200 will forward that request for
- 3 content to appliance 200 prime?
- A. My understanding is that it can
- 5 do that, yes.
- 6 Q. Okay. At the point in time that
- 7 appliance 200 forwards a request for content to
- 8 appliance 200 prime, what role would appliance
- 9 200 be operating in?
- 10 A. At that point, I would say
- 11 appliance 200 is operating in the role of a
- 12 client.
- Q. Okay. And when appliance 200
- 14 prime receives a request for content that was
- 15 sent by appliance 200, what role is appliance
- 16 200 prime operating in?
- A. At -- at that point, it would, I
- 18 think, depend on what -- what role 200 prime is
- 19 serving in that particular embodiment.
- Q. Would you agree that when
- 21 appliance 200 prime receives a request for
- 22 content from appliance 200, that appliance 200
- 23 prime would be operating in the role of a server
- 24 insofar as appliance 200 prime has to figure out
- 25 how to generate a response for appliance 200?

```
1
                         MR. WICHMAN:
                                       Objection.
 2
                         THE WITNESS: Again, it depends
 3
       on the -- the specific embodiment of what 200
       prime is doing.
 4
 5
       BY MR. DUNHAM:
 6
                                      I'll wait to see if
                         I'm sorry.
 7
       you're finished.
 8
                A.
                         But to the extent that 200 prime
 9
       in this particular embodiment would be trying to
10
       service -- assist in servicing this request, I
       would say that receiving that request from
11
12
       appliance 200, when appliance 200 prime receives
       that request, at that point in time, that's part
13
14
       of it operating in the role of a server.
15
                         Okay. And if appliance 200 prime
16
       having received a request from appliance 200, if
       appliance 200 prime thereafter sent that request
17
18
       to server 106B for content, what role would
19
       appliance 200 prime be operating in?
20
                         Similarly, depending on the
21
       embodiments, but supposing that 200 prime is
22
       trying to help service this request, at that
23
       point, I would say appliance 200 prime is
       operating in the role of a client.
24
25
                         And when server 106B receives
                Q.
```

- 1 that request from appliance 200 prime, would you
- 2 agree server 106B is operating in the role of a
- 3 server?
- A. As part of its operation in the
- 5 role of a server.
- 6 Q. Okay. And when server 106B
- 7 responds with content to appliance 200 prime,
- 8 what role would you say server 106B is operating
- 9 in?
- 10 A. When server 106B is sending back
- 11 a response to that request, server 106B at that
- 12 time is operating in the role of a server.
- 13 Q. Okay. And when appliance 200
- 14 prime at the point in time that it receives a
- 15 response with content from server 106B, would
- 16 you agree that appliance 200 prime is operating
- in the role of a client?
- A. Again, insofar as appliance 200
- 19 prime is assisting in resolving this, then, when
- 20 receiving this content, this response from
- 21 server 106B, I would say appliance 200 prime, at
- 22 that point in time, is operating in the role of
- 23 a client.
- Q. Okay. And obviously, I'm going
- 25 to work my way back through the path. So when

- 1 appliance 200 prime returns that response with
- 2 the content to appliance 200, what role would
- 3 appliance 200 prime be operating in?
- A. In the matter that we've been
- 5 discussing, 200 prime at that point -- appliance
- 6 200 prime at that point in time would be
- 7 operating in the role of a server.
- Q. Okay. And when appliance 200
- 9 receives the response with content from
- 10 appliance 200 prime, what role is appliance 200
- 11 operating in?
- 12 A. At that point in time, appliance
- 13 200 is operating in the role of a client.
- 14 Q. Okay. And if appliance 200
- 15 thereafter sends that response with the content
- 16 back to client 102B, what role is appliance 200
- 17 operating in?
- A. At that point in time, appliance
- 19 200 would be operating in the role of a server.
- 20 Q. And when appliance 102B receives
- 21 the content from appliance 200, what role would
- 22 client 102B be operating in?
- 23 A. I'm sorry, I think you may have
- 24 said "appliance 102B," is that what you said?
- 25 Q. Let me withdraw that question,

- 1 then, so the record is clear. Thank you for
- 2 catching that. Let me withdraw my question and
- 3 ask it again.
- When client 102B receives the
- 5 response from appliance 200 with the content
- 6 that client 102B has requested, what role is
- 7 client 102B operating in?
- A. At that point in time, client
- 9 102B would be operating in the role of a client.
- 10 Q. I'd like to turn back to your
- 11 declaration. We can use the declaration from
- 12 the 135 patent if that's convenient for you --
- 13 I'm sorry, the declaration from the 135
- 14 proceeding.
- 15 A. Okay.
- 16 Q. Okay. And if you can turn to
- 17 paragraph 168 of your declaration.
- 18 A. Okay. I'm on that paragraph.
- 19 Q. If you'd like, please take a
- 20 moment to review that paragraph.
- A. Yes, I've reviewed it.
- Q. Is it your opinion that appliance
- 23 200 of the Plamondon reference corresponds to
- 24 the quote: "First client device of the '319
- 25 patent claims"?

- 1 A. Yes, Plamondon appliance 200 is
- 2 the first client device.
- Q. And is that -- is that because
- 4 when appliance 200 requests its content from
- 5 server 106, that appliance 200 is acting in the
- 6 role of a client?
- 7 A. Well, it -- that's part of it.
- 8 Appliance 200 is the first client device. I
- 9 applied the Court's construction of this term
- 10 first client device to be, as I mentioned again
- 11 on page 43 of my declaration, it --
- 12 (Court reporter seeks
- 13 clarification.)
- 14 THE WITNESS: I'll try to start
- 15 over. Can I have the question read back to me?
- 16 BY MR. DUNHAM:
- 17 Q. Sure. I'll just restate the
- 18 question. My question is -- I had asked you
- 19 that when -- I asked you first, whether you --
- 20 it was your opinion that appliance 200
- 21 corresponded to the first client device of the
- '315 patent claims, and I believe you said, yes;
- 23 is that correct?
- 24 A. That is correct.
- Q. And then my follow-on question

- 1 where we had the audio glitch was: Is it
- 2 because when appliance 200 requests content from
- 3 server 106, that appliance 200 is operating in
- 4 the role of a client under the Court's claim
- 5 construction?
- A. So that's part of the reason why
- 7 Plamondon's appliance 200 is the first claim
- 8 device in these -- in these patent claims. I
- 9 applied the Court's construction, which is on
- 10 page -- I recap on page 43, starting on page 43
- 11 of that declaration for the '319 patent, that a
- 12 client device is a communication device that is
- 13 operating in the role of a client.
- 14 So I do know that appliance 200
- 15 at some parts does operate in the role of a
- 16 client, but I see that Plamondon's appliance 200
- 17 is the first client device because it meets all
- 18 of the claim limitations. It does everything
- 19 that the claims say that a first client device
- 20 does.
- 21 Q. If you could look at paragraph
- 22 186 of your declaration as well. And please
- 23 take a moment to review that paragraph.
- A. Yeah, I've reviewed paragraph
- 25 186. I'm sorry, did you say 186?

- 1 Q. Yes, sir.
- A. Okay. I've reviewed 186.
- Q. Is it your opinion that client
- 4 102 of Plamondon corresponds to the second
- 5 server of the '319 patent claims?
- A. Yes, Plamondon's client 102 is
- 7 the second server from the '319 patent claims,
- 8 yes.
- 9 Q. I'm sorry, did you say something
- 10 extra after your answer? I heard a noise.
- 11 A. Oh, I think we're still talking
- 12 about claim 1 from this patent, so -- but client
- 13 102 corresponds to this second server in this
- 14 claim 1 that we've been discussing.
- 15 Q. And that would be claim 1 of the
- 16 '319 patent, correct?
- 17 A. Correct.
- 18 Q. So I'd like you to turn back then
- 19 to the '319 patent, Exhibit 1001, and I'd like
- 20 to go to claim 1 with you.
- 21 A. Okay.
- 22 Q. Please take a moment to review
- 23 the claim.
- A. Okay, I've reviewed the claim.
- Q. Is it your understanding that

- 1 claim 1 of the '319 patent recites a method
- 2 performed by the first client device?
- That is my understanding, yes.
- Q. If we could look at the first
- 5 step of claim 1 that recites: "Receiving, from
- 6 the second server, the first content
- 7 identifier."
- B Do you see that method step?
- 9 A. I see that, yes.
- 10 Q. Based on your understanding of
- 11 claim 1 -- I'm sorry, strike that.
- 12 Based on your review of claim 1,
- is it your understanding that the first client
- 14 device receives the first content identifier
- 15 from the second server?
- 16 A. Yes, that's -- that's what it
- 17 says, yes.
- 18 Q. Okay. Can we turn to paragraph
- 19 192 of your declaration in the 135 IPR.
- 20 A. I'm at that paragraph.
- 21 Q. And please take a moment to
- 22 review it, if it's helpful to you.
- 23 A. Okay. All right. I've reviewed
- 24 it.
- Q. There's a parenthetical you've

- 1 included that says: "At step 605, the appliance
- 2 200 intercepts or otherwise receives a request
- 3 for an object from a client 102."
- 4 Do you see that language?
- 5 A. I see that, yes.
- 6 Q. Is it your opinion that Plamondon
- 7 discloses appliance 200 receiving the first
- 8 content identifier from client 102?
- 9 A. Yes. As I say in my declaration,
- in that paragraph, the appliance 200 intercepts
- 11 or otherwise receives a request for an object
- 12 from a client 102, and I describe that this
- 13 request -- that the request from a client to a
- 14 server to obtain the content or object
- 15 identified via the URL. And I explained that
- 16 that URL is the first content identifier.
- 17 Okay. And then consistent with
- 18 your earlier testimony, at the point in time
- 19 when appliance 200 receives a request for
- 20 content from client 102, we can agree that
- 21 appliance 200 is operating in the role of a
- 22 server, correct?
- 23 A. When appliance 200 receives the
- 24 request from client 102, at that point in time,
- 25 appliance 200, that is part of its role of

- 1 operating in the role of a server.
- Q. And at that same point in time,
- 3 appliance 200 is not operating in the role of a
- 4 client, correct, when it receives that request
- 5 for content from client 102?
- A. At that point in time, it's
- 7 operating in the role of a server and not
- 8 operating in the role of a client with respect
- 9 to that message exchange.
- 10 Q. And I'm still talking about the
- 11 same message exchange.
- 12 At the point in time when client
- 13 102 sends a request for content and that request
- is intercepted by appliance 200, client 102 is
- operating in the role of a client, right?
- 16 A. At that point in time, client
- 17 102, when it sends that request to appliance 200
- is operating in the role of a client.
- 19 Q. Okay. Can we go back to the '319
- 20 patent, please, for the moment?
- 21 A. Yes.
- Q. Back to claim 1, and I want to
- 23 focus on the last step, if you can take a moment
- 24 to review that step.
- 25 A. Okay. I've reviewed that last

- 1 step.
- Q. Okay. So again, just for context
- for both of us, the last step of claim 1 of the
- 4 '319 patent recites: "Sending, the first
- 5 content by the first client device to the second
- 6 server, in response to the receiving of the
- 7 first content identifier."
- 8 Do you see that language?
- 9 A. I see that, yes.
- 10 Q. Based on the claim language, is
- 11 it your understanding that the first client
- 12 device sends the first content to the second
- 13 server?
- 14 A. Yes. My understanding of that
- 15 language is that the first -- the first client
- 16 device is sending the first content to the
- 17 second server.
- 18 Q. Okay. If we could turn to
- 19 paragraph 206 of your dec in the 135 proceeding,
- and please take a moment to review paragraph
- 21 206, sir.
- A. I've reviewed it.
- Q. Okay. I'd like to call your
- 24 attention to the portion of paragraph 206 where
- 25 you state, quote: "Plamondon describes several

- 1 embodiments in which appliance 200 sends
- 2 requested content to client 102 in response to
- 3 receiving the URL comprising the content
- 4 identifier."
- 5 Do you see that language?
- 6 A. I see that language.
- 7 Q. At the point in time when
- 8 appliance 200 sends the requested content to
- 9 client 102, would you agree that appliance 200
- 10 is operating in the role of a server?
- A. At that point in time, when
- 12 sending the requested content to client 102, it
- is operating in the role of a server.
- 14 Q. And at the point in time when
- 15 client 102 is receiving the requested content
- 16 from appliance 200, would you agree that client
- 17 102 is operating in the role of a client?
- 18 A. At that particular time when
- 19 receiving that content, client 102 is operating
- 20 in the role of a client.
- Q. I'd like you to take out the
- 22 other patent, which -- the '510 patent, which is
- 23 in the red box, but confusingly, it's also going
- 24 to have the same exhibit number on it, I
- 25 believe. Because it's a different proceeding.

- 1 It will be Exhibit 1001 from the 138 IPR.
- A. I have what I believe to be that
- 3 document in front of me.
- Q. Okay. So this should be United
- 5 States Patent Number 10,484,510, marked as
- 6 Exhibit 1, correct?
- 7 A. When you say Exhibit 1 --
- 8 Q. I'm sorry, Exhibit 1001.
- 9 A. Yes. This seems to be that
- 10 document, yes.
- 11 Q. Thank you. In performing your
- 12 analysis in this case, did you review the '510
- 13 patent?
- 14 A. Yes, I did.
- 15 Q. Okay. And did you read all of
- 16 the patent?
- 17 A. Yes, I did.
- 18 Q. Okay. I'd like you to turn to
- 19 claim 1 of the '510 patent and please feel free
- 20 to take a moment and review it for yourself.
- 21 A. Okay. I've -- I've read it.
- 22 Q. Thank you. Could you please turn
- 23 now also to paragraph 166 of your declaration.
- A. I'm sorry, which declaration are
- 25 we talking about now, because we've switched to

- 1 a different patent.
- 2 Q. Sure. Let me just make sure I've
- 3 correlated the page numbers.
- 4 I believe it's the same paragraph
- 5 of your 138 declaration. So for you, the
- 6 right-hand binder on the desk, I believe.
- 7 MR. WICHMAN: Objection.
- 8 Counsel, can you just tell us
- 9 which declaration do you want him to look at?
- 10 MR. DUNHAM: Yes, I said the 138
- 11 declaration.
- 12 THE WITNESS: Just to remind me,
- that's the declaration pertaining to the '510
- 14 patent, is that --
- 15 BY MR. DUNHAM:
- 16 Q. Yes, sir.
- 17 A. Okay. I have that in front of
- 18 me.
- 19 Q. And paragraph 166, sir.
- 20 A. Yes, I have that in front of me.
- Q. And this, for the record, is
- 22 Exhibit 1003, which is the declaration of
- 23 Dr. Levin -- Levin, I apologize -- in support of
- 24 the petition for the '510 patent.
- 25 So if you'd like to take a moment

- 1 to look at paragraph 166 in the 138 declaration,
- 2 that would be fine.
- A. Okay. I've reviewed it.
- 4 Q. It's your opinion that appliance
- 5 200 of Plamondon corresponds to the first client
- 6 device of the '510 patent claim; is that right?
- 7 A. Yes. Plamondon's appliance 200
- 8 is the first claim device in this -- in this
- 9 first patent.
- 10 Q. And is it further your opinion
- 11 that client 102 of Plamondon corresponds to the
- 12 second server of the '510 patent claims?
- 13 A. It corresponds -- I'm sorry.
- 14 Client device 102 for Plamondon corresponds to
- 15 the second server in this claim 1 that we're
- 16 looking at, in the '510 patent.
- 17 Q. Okay. So let's -- let's look
- 18 specifically now at claim 1 of the '510 patent.
- 19 Do you have that in front of you,
- 20 sir?
- 21 A. I do.
- Q. Would you agree that the method
- 23 of claim 1 of the '510 patent is a method
- 24 performed by a first client device?
- 25 A. Yes, I see that here.

- 1 Q. And I'd like you to look at the
- 2 first step of claim 1 of the '510 patent that
- 3 reads: "Establishing a transmission control
- 4 protocol (TCP) connection with a second server."
- 5 Do you see that?
- A. I see that.
- 7 Q. Now, if it helps you to refer, we
- 8 can look at paragraph 187 of your 138
- 9 declaration.
- 10 A. I see paragraph 187 from my '510
- 11 declaration.
- 12 Q. Is it your opinion that Plamondon
- describes appliance 200 establishing a TCP
- 14 connection with client 102 via network stack
- 15 267?
- 16 A. Yes, that's a quote from
- 17 paragraph 187 of my declaration, yes.
- 18 Q. Would you agree that Plamondon
- only discloses establishing a TCP connection in
- 20 the context of client 102 requesting content
- 21 from a server 106?
- A. I'm not sure I would agree with
- 23 that characterization.
- Q. Are you able to point me to any
- 25 disclosure in Plamondon where client 102

- 1 establishes -- well, strike that.
- 2 Are you able to point me to any
- disclosure in Plamondon where a TCP connection
- 4 is established between client 200 and client
- 5 102, other than when client 102 makes a request
- 6 for content that is intercepted by appliance
- 7 200?
- 8 A. Can I have that question read
- 9 back to me one more time, please?
- 10 Q. Sure. Are you able to point me
- 11 to any disclosure in Plamondon where a TCP
- 12 connection is established between client 102 and
- 13 appliance 200, other than when client 102 is
- 14 requesting content from server 106 that is
- 15 intercepted by appliance 200?
- 16 A. Yes. So in paragraph -- I'm
- 17 sorry, on page 77 of my declaration, paragraph
- 18 90 and further down the quote, that's a little
- 19 bit lower from -- it's a quote from Plamondon,
- 20 says -- I'll read a little bit of that: "When
- 21 an end node, such as the client 102 opens a new
- 22 TCP connection with another end node, such as
- 23 the server 106," and then it continues to
- 24 describe aspects of establishing the connection.
- 25 Also, on the next page, paragraph

- 1 191, I have another quote from Plamondon that
- 2 talks about appliance 200 establishing a TCP
- 3 connection with client 102, but all of these --
- 4 this establishment of the connection at this
- 5 point is happening at this TCP establishment --
- 6 during the TCP establishment stage, and that can
- 7 come before the client has issued a request for
- 8 the content.
- 9 So I word it -- the way I
- 10 believe, if I recall correctly, that you
- 11 characterized it was that it only establishes a
- 12 connection upon the client issuing the request,
- 13 but one of ordinary skill would have understood
- 14 that -- that generally speaking, from each TCP,
- 15 one first establishes a connection and then
- 16 issues the request.
- 17 There are some other variants
- 18 that one of ordinary skill would have understood
- 19 that might not directly always apply, but it
- 20 does not have to be -- this establishment of the
- 21 TCP connection does not itself have to be as a
- 22 direct result of the request being sent by the
- 23 client. The establishment can happen before the
- 24 client has issued the request.
- Q. In terms of the portions of

- 1 Plamondon that you have cited in your report,
- 2 would you agree that the establishment of the
- 3 TCP connection between client 102 and appliance
- 4 200 occurs as part of the process of client 102
- 5 issuing a request for content directed to server
- 6 106?
- 7 A. I'm not sure I would necessarily
- 8 characterize it that way.
- 9 Again, for some -- for many of
- 10 the initiations of TCP, it would be a necessary
- 11 precursor to it, but I don't know that I would
- 12 necessarily characterize it as it being part of
- 13 sending that request.
- 14 Q. Well, can you point me to any
- 15 disclosure in Plamondon that indicates that a
- 16 TCP connection will be established between
- 17 client 102 and appliance 200 and appliance --
- 18 I'm sorry, and client 102 will not thereafter
- 19 issue a request for content directed to server
- 20 106?
- 21 A. I'm not sure I can recall, off
- the top of my head, precisely where Plamondon
- 23 would have articulated exactly that, but I can't
- 24 recall a part -- a specific quote that would
- 25 have said exactly that, but -- but a person of

- 1 ordinary skill would have understood that --
- 2 that there's TCP establishment, you know,
- 3 there's also sending a request and that -- that
- 4 these are two different things, one would
- 5 understand that claim could have failed, that
- 6 after issuing that request, the request from the
- 7 user's perspective, for example, could have been
- 8 cancelled.
- 9 So I can't recall off the top of
- 10 my head a specific place in Plamondon where it
- 11 would have said specifically that, but one of
- 12 ordinary skill would have understood that it can
- 13 happen.
- Q. Well, is there anyplace in your
- 15 report, sir, of your analysis here that we're
- 16 looking at, that you can point me to, where you
- 17 described the establishment of a TCP connection
- 18 between client 102 and appliance 200, other than
- 19 related to client 102 issuing a request for
- 20 content directed to server 106?
- 21 A. Where I discuss the establishment
- 22 of the TCP connection?
- 23 Q. My question, sir: Is there
- 24 anyplace in your report, in your declaration,
- 25 that you can point me to, where you describe

- 1 establishing a TCP connection between client 102
- 2 and appliance 200 other than in connection with
- 3 client 102 issuing a request for content
- 4 directed to server 106?
- 5 A. The specific quotes that I had
- 6 just mentioned from paragraphs 190 and 191 from
- 7 my declaration in the '510 patent discuss
- 8 establishing a TCP connection, and as I'm
- 9 looking through this, does not explicitly
- 10 mention sending the request in the broader
- 11 context of -- of these claims, and being the
- 12 claim limitations, the -- that established TCP
- 13 connection is what's -- is what's used at least
- 14 for sending the first content, that's a final
- 15 step of that -- I'm sorry, I'm not quite
- 16 understanding the question.
- 17 Q. Well, would you agree in
- 18 paragraph 190 -- let me start it again.
- 19 Would you agree that in your
- 20 report in paragraph 190, as captured by the last
- 21 sentence to the initial part before the block
- 22 quote, you say: "Plamondon describes in detail
- 23 the process by which client 102 and server 106
- 24 established a TCP connection via appliance 200."
- A. I say that, yes.

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1 0. Is there any other part in 2 paragraph 190 or anywhere else that you can 3 point me to, where client 102 and server 106 established a TCP connection via appliance 200, 4 5 other than in connection with client 102 sending a request for content? 6 7 A. Again, I would point you to 8 paragraph 191, where I discuss another way in 9 which appliance 200 establishes a TCP connection 10 with 102 and a TCP connection with server 106. 11 And here, I'm not -- in this 12 example, I'm not explicitly mentioning the 13 request for it, but I think generally speaking, 14 this would -- this would precede the client --15 if the client was sending a request, this would, 16 in most --17 0. Would precede what, sir? 18 A. Would precede the client sending 19 that request. The client 102 sending that 20 request. 21 Q. So let's go back to the '510 patent and my question for you, sir, is: Would 22 23 you agree that when client 102 sends a request for content directed to server 106 and that 24

request is intercepted by appliance 200, client

25

- 1 102 is operating in the role of a client?
- 2 MR. WICHMAN: Objection.
- 3 Misstates the record.
- 4 Actually, Counsel, can we just
- 5 clean this up? Before -- you said, you want to
- 6 refer to the patent -- the '510 patent and you
- 7 referred to a request being intercepted by
- 8 appliance 200, but I think you meant to say
- 9 something different, because appliance 200 is
- 10 Plamondon.
- 11 MR. DUNHAM: I'm happy to ask
- 12 another question. I disagree that my question
- 13 was inappropriate or improper, but I will ask a
- 14 fresh question.
- 15 BY MR. DUNHAM:
- Q. Dr. Levin, when client 102 of
- 17 Plamondon sends a request for content and that
- 18 request is intercepted by appliance 200, would
- 19 you agree that client 102 is operating in the
- 20 role of a client?
- 21 A. In Plamondon, when client 102
- 22 sends a request for content, that --
- 23 (Court reporter seeks
- 24 clarification.)
- 25 THE WITNESS: When client 102 is

- sending a request for content to appliance 200,
- 2 or if it's intercepted by appliance 200, at that
- 3 point in time, client 102 is operating in the
- 4 role of a client.
- 5 BY MR. DUNHAM:
- 6 Q. Okay. And if we could go, then,
- 7 to the '510 patent, claim 1, and in particular,
- 8 to the last step, which reads: "Sending the
- 9 received first content, to the second server
- 10 over the established TCP connection, in response
- 11 to the receiving of the first content
- 12 identifier."
- Do you see that language?
- 14 A. I see that language, yes.
- 15 Q. Based on that claim language, is
- 16 it your understanding that the first client
- device sends the first content to the second
- 18 server?
- 19 A. First client device sends the
- 20 first content to the second server. That's my
- 21 understanding, yes.
- Q. And could you please turn to
- 23 paragraph 211, 211 of your '510 dec from the 138
- 24 IPR. And please feel free to review that
- 25 paragraph.

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1
                         I've reviewed that paragraph.
                A.
 2
                0.
                         In the first sentence, do you see
 3
       the language that reads, quote: "Plamondon
       describes several embodiments in which appliance
 4
 5
       200 sends received content to client 102 in
 6
       response to receiving the URL comprising the
       content identifier."
 7
 8
                         Do you see that?
 9
                A.
                         I see that language, yes.
10
                0.
                         At the point in time when
11
       appliance 200 sends the requested content to
12
       client 102, would you agree that appliance 200
13
       is operating in the role of a server?
14
                        At that point in time, I would
15
       say appliance 200 is operating in the role of a
16
       server.
17
                       And at the point in time when
18
       client 102 receives the requested content from
       appliance 200, would you agree that client 102
19
20
       is operating in the role of a client?
21
                         At that point in time, that
```

client 102 is operating in the role of a client.

with everyone. I see I've gone actually a

little bit over my hour, so why don't we take

22

23

24

25

MR. DUNHAM: I try to be honest

- 1 another ten-minute break.
- THE WITNESS: Okay, thank you.
- 3 THE VIDEOGRAPHER: The time is
- 4 11:20 a.m. and we're now off the record.
- 5 (Recess taken.)
- 6 THE VIDEOGRAPHER: The time is
- 7 11:32 a.m. and we are now back on the record.
- 8 BY MR. DUNHAM:
- 9 Q. Dr. Levin, would you agree that
- 10 the Plamondon reference is directed to
- 11 prefetching objects for caching using QOS?
- 12 A. Some of Plamondon's embodiments
- 13 involve that.
- 14 Q. In Plamondon, do you agree that
- 15 they describe appliance 200 being an
- 16 intermediary for a client in a branch office and
- 17 a server on a corporate LAN?
- 18 A. Can you point me to a specific
- 19 paragraph for Plamondon that you might have had
- 20 in mind?
- Q. First, I'd like to know if that's
- 22 your understanding of Plamondon, and then I will
- 23 point you to a portion of the reference.
- 24 A. Okay. Could you say it one more
- 25 time?

- 1 Q. Sure. Would you agree that
- 2 Plamondon discloses appliance 200 being an
- 3 intermediary between a client and a branch
- 4 office and a server on a corporate LAN?
- 5 A. I would agree that that's one of
- 6 the many embodiments and architectures and
- 7 setups so to speak that Plamondon describes.
- 8 One of many.
- 9 Q. If we could flip back to your 135
- 10 declaration from the '319 patent.
- 11 A. Okay.
- 12 Q. And specifically paragraph 154.
- 13 This is citing Plamondon, but I'm
- 14 just thinking you might be more comfortable in
- 15 your report. So it's your paragraph 154.
- 16 A. Yes, I see that paragraph.
- 17 Q. And I guess I'll ask it this way.
- 18 If you could review paragraph
- 19 154, I just want to ask if you stand by what you
- 20 wrote in paragraph 154.
- 21 A. Okay, I've reviewed it, and yes,
- 22 I stand by it.
- Q. Okay. Could you look at
- 24 paragraph 2 of Plamondon, and I'm kind of
- 25 bouncing back and forth a little bit between the

- 1 patent and your report.
- 2 A. Okay, I've -- I've read paragraph
- 3 2 of Plamondon.
- 4 Q. With reference to the second
- 5 sentence of paragraph 2 in the Plamondon
- 6 reference, would you agree that as of the date
- 7 of Plamondon, back in 2008, 2009, it would be a
- 8 fair statement that many business entities
- 9 desired to consolidate their computing
- 10 infrastructure to a single geographic location
- in order to simplify maintenance and
- 12 administration?
- 13 A. I see that Plamondon mentions
- 14 that, and I can understand, and I think one of
- ordinary skill at the time would have understood
- 16 that there are some benefits conferred by
- 17 consolidating computing infrastructure in that
- 18 way, sure.
- 19 Q. In connection with the opinions
- 20 that you render in this case that you describe
- 21 in your report, you -- I believe you testified
- 22 earlier, and please correct me if I'm wrong,
- 23 that all of the assessments you made were from
- 24 the perspective of a person of ordinary skill in
- 25 the art; is that right?

- 1 A. Yes, that's what I -- that's how
- 2 I attempted to do my analysis, yes.
- 3 Q. And when you applied the analysis
- 4 -- strike that.
- 5 When you performed your analysis
- from that perspective, what timeframe were you
- 7 using, like, reading the references as of what
- 8 timeframe?
- 9 A. I mentioned that in my
- 10 declaration -- just a moment.
- 11 So I mentioned -- in that -- my
- 12 declaration for the '319 patent on paragraph 18,
- I mentioned that I applied that analysis, you
- 14 know, in reference to the October 2009
- 15 timeframe.
- 16 Q. Now, in the analysis of Plamondon
- 17 that you discussed in your declarations -- so I
- 18 want to focus you carefully to the analysis that
- 19 you performed and discussed of Plamondon.
- 20 Would you agree that in each of
- 21 the notes that you discuss, all traffic from
- 22 client 102 destined to server 106 would pass
- 23 through appliance 200?
- 24 A. In -- in all of the scenarios
- 25 that involves client 102 communicating through

- 1 appliance 200 in order to reach server 106,
- 2 then, yes, the -- the relevant traffic, at least
- 3 particularly the traffic as it pertains to the
- 4 claims goes through appliance 200.
- 5 Q. Okay. Thank you for that
- 6 clarification.
- 7 Further in the analysis of
- 8 Plamondon that you discuss in your declarations,
- 9 is it your understanding that client 102 sends
- 10 requests with a destination address of server
- 11 106?
- 12 A₊ My understanding -- give me just
- 13 a moment, please.
- 14 Q. Certainly.
- 15 And the camera, sir, has frozen,
- 16 so if you could please just tell us what
- 17 materials you are referring to, I would
- 18 appreciate it.
- 19 A. Oh, sure. I'm looking through my
- 20 declaration.
- Q. All right. Thank you.
- A. Would you mind repeating the
- 23 question or could I have that read back to me?
- Q. Sure, I'll repeat it. What I'm
- 25 trying to get to is, in the analysis that you

- describe in your report, do you agree that the
- 2 client 102 sends requests with a destination
- 3 address of server 106?
- 4 MR. WICHMAN: Objection. Form.
- 5 THE WITNESS: It's my
- 6 understanding that at least in some embodiments,
- 7 that can involve client 102 sending a packet
- 8 where the destination address is server 106, but
- 9 it's not clear to me that it precludes other --
- 10 other kinds of embodiments.
- 11 BY MR. DUNHAM:
- 12 Q. My question, sir, is: In the
- 13 analysis that you performed and discussed in
- 14 your declaration, is there anyplace where you
- 15 discussed client 102 sending packets for -- with
- 16 request for content that are -- that do not have
- 17 a destination address of server 106?
- 18 A. I think I specifically stated
- 19 exactly what the destination address is in all
- 20 cases, but there are instances where an
- 21 embodiment, as one of ordinary skill in the art
- 22 at the time would have understood, it could
- 23 involve client 102 sending a packet with server
- 24 106 as the destination address.
- 25 Q. But my question is -- is a little

1 bit different, which is: In the analysis that 2 you described in your report, is there anyplace 3 where you discuss client 102 sending a request for content with a destination address with 5 something other than server 106? 6 This is a little bit hard 7 question to answer because a -- so I think of a 8 request in this context of HTTP, for example. 9 This request, an HTTP request, that application 10 layer request message is the payload of another 11 packet at, for example -- for example, the 12 payload of, say, the TCP packet which could in 13 turn be a payload of an IT packet. 14 Of course, as one of ordinary 15 skill would understand at the time, that request 16 could be in the payload of an IT packet, but 17 that IT packet could itself be the payload of 18 another IT packet, and those could both 19 potentially have different destination IP 20 This would be an example of -- what addresses. 21 I think I called tunneling in my background 22 section on networking. 23 So I'm having a little bit of

trouble answering your question because the

given request could be associated with more than

24

25

- 1 one destination IP address, as -- I've
- 2 understood what Plamondon has taught.
- 3 As I think one of ordinary skill
- 4 in the art would have understood at the time,
- 5 that it can intercept messages in many different
- 6 ways.
- 7 One way would be where the
- 8 client, or there's, say, a single destination IP
- 9 address, in which case the client would put --
- in this example, the server 106's IP address as
- 11 the destination IP address in that single IP
- 12 header, but it also teaches interception in a
- 13 way that one of ordinary skill in the art would
- 14 understand could include, that it would have
- 15 that IP packet with the IP header of the server
- 16 106 -- with the server 106's IP address in the
- 17 destination IP address, but that could be
- 18 encapsulated inside of another IP packet where,
- 19 for example, appliance 200 could have been the
- 20 destination IP address.
- 21 So I just want to be really
- 22 careful in answering the question that -- which
- 23 destination IP address are you talking about,
- 24 and what -- what exactly do you -- are you
- 25 referring to when you say associating that

- 1 request with a -- with a destination IP address.
- 2 And I believe you said
- 3 destination IP address, if I'm recalling
- 4 correctly from the question.
- 5 Q. Would you agree that in the
- 6 embodiments that you relied upon in your
- 7 declaration, that when server 106 receives a
- 8 request for content that originated with client
- 9 102, the request received by server 106 would
- 10 include the IP address of server -- of client
- 11 102?
- 12 A. I'm not sure I would necessarily
- 13 agree with that characterization.
- 14 Q. Let me make sure the question is
- 15 clear because I made a mistake at the end of it.
- So let me reask it and just listen carefully,
- 17 please.
- 18 Would you agree that the
- 19 embodiments of Plamondon that you relied upon,
- when server 106 receives a request for content
- 21 that originated from client 102, the source
- 22 address of client 102 would be included as part
- 23 of the request that was received by server 106?
- A. I would not necessarily agree
- 25 with that characterization.

Page 101 1 (Court reporter seeks 2 clarification.) 3 THE WITNESS: Shall I continue? BY MR. DUNHAM: 4 5 What I'd like you to do is point 6 me to something in your report where you say 7 that server 106 would receive a request for 8 content that originated from client 102, but the 9 IP address, the source IP address of client 102 10 would not be part of that received request. 11 In my declaration for the '510 12 patent, page 78, paragraph 191. I can give you a moment to go there, but I'll --13 I'm there. 14 0. 15 A. Okay. 16 I mention paragraph 0256 from 17 Plamondon, which is one of -- it's several 18 embodiments in which appliance 200 establishes a 19 TCP connection with client 102, and what it 20 describes here, I've underlined it, in other 21 embodiments, the appliance 200 terminates the 22 first transport layer connection, such as a TCP 23 connection of a client 102, and establishes a 24 second transport layer connection to a server

106 produced by or on behalf of the client 102.

25

```
1
                         For example, the second transport
 2
       layer connection is terminated at the appliance
 3
       200 and the server 106.
                         So there are -- one of ordinary
 4
       skill in the art would understand that there are
 5
       multiple ways of doing that. One of which
 6
 7
       involves appliance 200 being the source IP
 8
       address -- I'm sorry, wait a minute.
 9
                         Appliance 200's IP address as
10
       being the source IP address in that TCP
11
       connection -- sorry. Let me -- let me make sure
12
       I get that right.
13
                         An appliance 200's IP address is
       the IP address associated with the TCP
14
       connection. The second transport layer
15
       connection that appliance 200 establishes with
16
17
       server 106, in that particular embodiment, which
18
       would have been pretty well known to someone of
19
       ordinary skill in the art, from server 106's
20
       perspective, if the -- appliance 200's IP
21
       address would be in the source -- would be the
22
       source IP address in the packets that the server
23
       106 receives over that second transport layer
24
       connection.
25
                         But again, one of ordinary skill
```

- in the art would understand that that's one
- 2 embodiment. There are other embodiments where
- 3 appliance 200, even while establishing that
- 4 second TCP connection, it could reuse client
- 5 102's IP address. It would depend on that
- 6 particular network's apology and embodiment and
- 7 Plamondon teaches us that these networks can
- 8 take on virtually any network's apology.
- 9 BY MR. DUNHAM:
- 10 Q. Which declaration are you in,
- 11 sir, so I'll give you the corresponding
- 12 paragraph number.
- 13 A. I'm looking at the -- the
- 14 declaration pertaining to the '510 patent right
- 15 now.
- 16 Q. So could you turn to paragraph
- 17 158, please, in that particular declaration?
- 18 A. Yeah, I'm at paragraph 158.
- 19 Q. And the first -- please take a
- 20 moment to read the paragraph.
- 21 A. Okay. I've read that paragraph.
- 22 Q. My first question is -- and
- 23 again, I just asked you to read it carefully.
- Do you stand by everything you
- 25 stated in paragraph 150, today, as you testify

- 1 under oath?
- 2 A. Yes, I stand by this.
- Q. Could you look to your 135
- 4 declaration from the '319 patent, please,
- 5 A. Okay, I'm at the '319
- 6 declaration.
- 7 Q. And if you could please turn to
- 8 paragraph 388 and review that paragraph.
- 9 A. I've reviewed paragraph 388 in
- 10 the '319 declaration.
- 11 Q. I just want to make sure I
- 12 understand one of the sentences, and it's the
- 13 second sentence that says: "Like the computing
- 14 devices in Plamondon and the '319 patent, the
- 15 Price coordinating computer is a general purpose
- 16 computer."
- Do you see that language?
- 18 A. I see that.
- 19 Q. Again, just a matter of grammar.
- 20 I want to make sure I understand it.
- 21 Is it your opinion that the
- 22 computing devices in Plamondon, the computing
- 23 devices in the '319 patent, and the Price
- 24 coordinating computer are each general purpose
- 25 computers?

- A. Yes, that's my position. I would
- 2 agree with that.
- Q. Okay. Thank you.
- 4 If we could turn to Plamondon
- 5 again for a moment, sir, and in particular, to
- 6 figure 1A.
- 7 Please let me know when you're
- 8 there.
- 9 A. Okay. I'm there.
- 10 Q. Did you discuss any embodiments
- in your declaration where, if appliance 200 were
- 12 to forward requests for content, they would not
- 13 be intercepted by appliance 200 prime?
- 14 A. Just give me a moment.
- 15 Q. Certainly.
- 16 A. I'm looking again at my
- 17 declaration for the '510 patent, paragraph 144.
- 18 Q. I'm sorry, was that 144?
- 19 A. 144 on page 57. I mention that
- 20 it can use one or more network optimizational
- 21 appliances, 200, 200 prime. Those are what it's
- 22 referring to, Plamondon paragraph 0202.
- 23 So in that case, because it's one
- 24 or more, there could be instances where
- 25 appliance 200 is operating without appliance 200

- 1 prime, and, therefore, that appliance 200 prime
- 2 would not necessarily be intercepting the
- 3 messages from appliance 200.
- Q. Sure, What I'm asking is: In
- 5 the embodiments that you've analyzed where there
- 6 are both appliance 200 and 200 prime, would you
- 7 agree that in the conditions where appliance 200
- 8 forwards a request for content, that that
- 9 request will always go to appliance 200 prime?
- 10 A. I wouldn't agree with the
- 11 characterization in that not all of the
- 12 embodiments that I reference require an
- 13 appliance 200 prime.
- Q. Sure. So let me make sure my
- 15 question is clear.
- 16 I'm limiting it to the
- 17 embodiments where there are both an appliance
- 18 200 and an appliance 200 prime.
- 19 And my question is: Where there
- is both an embodiment -- I'm sorry, both an
- 21 appliance 200 and an appliance 200 prime, would
- 22 you agree that in each case where appliance 200
- 23 forwards a request for content, that request
- 24 will be intercepted by appliance 200 prime?
- 25 A. In a specific embodiment where --

1 you're asking in the event where there exists 2 both an appliance 200 and a 200 prime, I believe 3 that question is asking if every single request coming from appliance 200 towards server 106, 5 for example, if every single request necessarily goes through appliance 200 prime. 6 7 And I wouldn't completely agree with that characterization because Plamondon 8 9 speaks of, on paragraph -- sorry, on page 59 of 10 my '510 declaration, paragraph 150, I know that 11 he says that these networks can take any form of 12 its apology. 13 So as a result, there can be 14 network forms of apologies where not necessarily 15 every single request coming from appliance 200 goes through a appliance 200 prime. 16 17 So as I mentioned, again, on --18 my paragraph 144, it could be one or more, 200, 19 200 prime, and that implies that there could be 20 a 200 double prime. So to say that it all 21 necessarily goes through 200 prime, even if --22 even if it were the case that there was only 23 exactly 200 and 200 prime, as I think your 24 question is trying to establish, even in that

case, Plamondon doesn't teach away instances

25

- where the requests from appliance 200 would not
- 2 go through 200 prime, but it also teaches that
- 3 it could be for network forms of apologies where
- 4 all requests go from appliance 200 through 200
- 5 prime, so I don't think it limits it to that,
- 6 but it also doesn't preclude it.
- 7 Q. Other than generic statements, as
- 8 you pointed to in paragraph 150 of your
- 9 declaration that states: "These networks can
- 10 take any form of apology."
- 11 Can you point me to any specific
- 12 embodiment in Plamondon where a request for
- 13 content that has been intercepted by appliance
- 14 200 and it's destined towards server 106, where
- 15 that request, they forward it towards the
- 16 server, does not go through appliance 200 prime?
- 17 A. As the embodiments that I
- 18 mentioned in 144 where it says there's one or
- 19 more appliances, 200 and 200 prime.
- Q. So is that your answer, that just
- 21 the -- the generic recitation, that there could
- 22 be many or any of these different devices is --
- 23 is the support for your contention that requests
- 24 for content that are forwarded from appliance
- 25 200 towards server 106, they do not necessarily

```
1
       go through 200 prime. Is that your testimony?
 2
                         Not that it's just that, but that
 3
       also combined with this -- this idea that the
       networks can take any form of its apology and it
 4
 5
       describes some network's apologies, and then
       also says that the network -- I'm sorry,
 6
 7
       Plamondon, paragraph 204, says network 104 and
 8
       network's apology may be of any such network or
 9
       network's apology, as known to those ordinarily
10
       skilled in the art or people supporting the
11
       operations herein.
12
                         So it's my opinion that one of
       ordinary skill in the art would have understood
13
       that the embodiments -- where it does -- where
14
15
       the traffic -- the request, going from 200
16
       towards server 106 could go through appliance
17
       200 prime, or could not go through appliance 200
18
       prime.
19
                         But sitting here today, can you
                0.
20
       point me to specific words in Plamondon that say
21
       that the requests for content that appliance 200
22
       may be forwarding on towards server 106, can you
23
       point me to any specific language where it says
       if there was a 200 prime, that those requests
24
25
       would not have to go through it?
```

- 1 MR. WICHMAN: Object. Asked and
- 2 answered.
- 3 THE WITNESS: I believe I
- 4 answered that question.
- 5 BY MR. DUNHAM:
- 6 Q. Okay. Can you turn to paragraph
- 7 314, just for reference of your 135 deck which
- 8 is the '319 patent?
- 9 A. What was that number again? I'm
- 10 sorry.
- 11 Q. 314, and it's really an anchor
- 12 point for you, and this is of the '319
- 13 declaration in the 135 proceeding.
- 14 A. I see that.
- 15 Q. Is it your understanding that in
- 16 Plamondon, a cached object may be located on
- 17 appliance 200 or on appliance 200 prime?
- 18 A. It's my understanding that in
- 19 some embodiments, yes, the cached object could
- 20 be on 200 -- appliance 200 or 200 prime.
- Q. Okay. And in paragraph 314, are
- 22 you describing that basic possibility, that a
- 23 cached object, for example, may not be on
- 24 appliance 200, but it may be on appliance 200
- 25 prime?

- 1 A. That's what I'm describing in
- 2 this paragraph, yes.
- Q. Okay. And you're citing in the
- 4 brackets in paragraph 314 of your declaration,
- 5 you cite bracket 0446, close bracket.
- 6 That's paragraph 446 of
- 7 Plamondon, correct?
- 8 A. That's what I'm referring to
- 9 there, yes.
- 10 Q. Would you agree that in paragraph
- 11 446 of Plamondon, the reference does not
- 12 disclose that a request for an object from
- 13 client 102 is sent directly to appliance 200
- 14 prime instead of being sent to appliance 200?
- 15 A. Paragraph 446 is I think building
- off of the context established in paragraph 444
- 17 that says that it's appliance 200 -- it says:
- 18 "The appliance 200 intercepts or otherwise
- 19 receives a request for an object from a client
- 20 102."
- Q. Right. So I'm just trying to
- 22 make sure that we're clear.
- 23 In the situation where a cached
- 24 object of interest is located at appliance 200
- 25 prime, according to the cited portion of

- 1 Plamondon, client 102 would direct a request for
- 2 that object that would be intercepted first by
- 3 appliance 200 and then forwarded on to appliance
- 4 200 prime; is that right?
- 5 A. Yes.
- 6 Q. Okay. And in that case, where
- 7 the object of interest by client 102, that
- 8 object of interest was on appliance 200 prime
- 9 and appliance 200 forwarded the request to 200
- 10 prime, would you agree that appliance 200 prime
- 11 would ultimately return that object via
- 12 appliance 200 to get it back to client 102?
- MR. WICHMAN: Object.
- 14 THE WITNESS: It does -- it does
- 15 describe an embodiment in which that would
- 16 happen, yes.
- 17 BY MR. DUNHAM:
- 18 Q. Are you aware of any embodiments
- 19 where, if client 102 made a request for an
- 20 object, that request was intercepted by
- 21 appliance 200, that same request was forwarded
- 22 and intercepted by appliance 200 prime, are you
- 23 aware of any embodiment where appliance 200
- 24 prime would return that object directly to
- 25 client 102 without it passing back through

- 1 appliance 200?
- 2 MR. WICHMAN: Objection. Form.
- THE WITNESS: Can I have the
- 4 question read back to me, please?
- 5 BY MR. DUNHAM:
- 6 Q. Sure. What I'm asking is -- and
- 7 I'll just repeat it for you, sir.
- 8 Are you aware of any embodiments
- 9 in Plamondon that you've discussed where -- when
- 10 an object of interest by client 102 is located
- on appliance 200 prime and the request for that
- 12 object has reached appliance 200 prime through
- 13 appliance 200, are you aware of any embodiment
- 14 where appliance 200 prime will return that
- 15 object to client 102 bypassing client -- I'm
- 16 sorry, appliance 200?
- 17 MR. WICHMAN: Objection. Form.
- 18 BY MR. DUNHAM:
- 19 Q. Let me ask another question.
- 20 I'll withdraw that question. Let me ask it this
- 21 way. I'm trying to get to the same point, but
- 22 I'd like to ask a clearer question.
- 23 If client 102 issues a request
- for an object and that object exists in the
- 25 cache of appliance 200 prime but not on

```
1
       appliance 200, and the request from client 102
 2
       reaches appliance 200 prime by coming through
 3
       appliance 200, are you aware of any disclosure
       in Plamondon where appliance 200 prime could
 4
 5
       return that object to client 102 bypassing
       appliance 200?
 6
 7
                A.
                        I don't believe that Plamondon
 8
       teaches that away. I'm just saying, I don't
 9
       think it says that it cannot happen. On
10
       paragraph 447, it just refers to the appliance
11
       transmits the cached object to 102, and so in
12
       this case, I believe one of ordinary skill would
       -- could understand that in this case, it could
13
14
       be, as you describe, the cached object going
       from 200 prime to 200, back to the client.
15
16
                         There could potentially be an
17
       embodiment where the appliance there refers to
18
       200, but in the -- certainly, what you've
19
       described is an embodiment that Plamondon
20
      describes.
21
                         MR. DUNHAM: Okay. I'm looking
22
       at the clock and I promised you about quarter
23
       after, we could take a lunch break, so this is
```

-- in terms of where we are, I think a good

point to take that break.

24

25

- 1 MR. WICHMAN: How long, 30
- 2 minutes, 20 minutes?
- 3 MR. DUNHAM: 30 minutes is fine
- 4 by me, 30 or 45, certainly, either of those will
- 5 work. Whatever is good for Dr. Levin.
- 6 MR. WICHMAN: Why don't we shoot
- 7 for 30.
- 8 MR. DUNHAM: Okay.
- 9 MR. WICHMAN: If that's agreeable
- 10 to everybody. So 12:45 -- by local time, 12:45
- 11 local here, we'll resume.
- MR. DUNHAM: It works.
- 13 THE WITNESS: Thank you.
- 14 THE VIDEOGRAPHER: The time is
- 15 12:14 p.m. and we are now off the record.
- 16 (RECESS TAKEN)
- 17 THE VIDEOGRAPHER: The time is
- 18 12:47 p.m. and we are now back on the record.
- 19 BY MR. DUNHAM:
- 20 Q. Dr. Levin, did you discuss your
- 21 testimony with anyone during the lunch break
- 22 that we took?
- 23 A. No, I did not.
- Q. Sir, I meant to ask you earlier,
- are you the named inventor on any patents?

- 1 A. I believe I -- I do have a patent
- 2 where I'm one of the named inventors.
- 3 Q. Do you know if that patent has
- 4 issued?
- 5 A. I don't know exactly. This was
- 6 -- this would have been work as a result of one
- 7 of my internships with Microsoft Research. So
- 8 they -- Microsoft was the one who filed for that
- 9 patent and I never really tracked the status of
- 10 it.
- 11 Q. I understand that you have
- 12 retrieved from the box of materials that we
- 13 provided, two particular documents. One is
- 14 Exhibit 1023, which is United States Patent
- 15 Publication to Price, and that's document No.
- 16 2006/0026304, and the other document is
- 17 Exhibit 1024, another United States Patent
- 18 Publication to Kozat, publication No.
- 19 2009/0055471.
- Do you have those two exhibits
- 21 before you, sir?
- 22 A. I have what appear to be those
- 23 exhibits, yes.
- Q. Do you have some reason to
- 25 believe you do not have complete copies of

- 1 Exhibits 1023 and 1024?
- 2 A. No, not that I can tell, but just
- 3 flipping through it, it looks like it's all
- 4 there, but if it -- it looks like it's all
- 5 there.
- 6 Q. Let's start with Exhibit 1023
- 7 which is the Price reference.
- 8 Can we refer to this as Price,
- 9 would that be acceptable?
- A. Sure.
- 11 Q. Have you reviewed the Price
- 12 reference before?
- 13 A. Yes, I have.
- 14 Q. And was that in connection with
- 15 preparing your declaration in this matter?
- 16 A. Yes.
- 17 Q. Did you read all of the Price
- 18 reference?
- 19 A. Yes, I have.
- 20 Q. Is the Price reference something
- 21 that had been provided to you for your work in
- 22 this matter, or was this something that you
- 23 uncovered in connection with your work?
- A. This particular reference was
- 25 provided to me. I was -- I was -- it was

- 1 provided to me.
- Q. Okay. Would you agree that the
- 3 Price patent publication is directed to a system
- 4 and method for updating software in electronic
- 5 devices?
- 6 A. Yes.
- 7 Q. With reference to the Plamondon
- 8 patent publication, can you -- strike that. I
- 9 apologize.
- 10 If you could turn in your
- 11 declaration, and the '319 declaration is fine,
- 12 to paragraph 388.
- 13 A. Okay. I'm at that paragraph.
- 14 Q. Would you agree as recited in the
- 15 first paragraph -- I'm sorry, the first sentence
- of your paragraph 388, that the Price
- 17 publication generally describes a software
- 18 versioning system involving a coordinating
- 19 computer that automatically or semiautomatically
- 20 keeps software on subscribing devices updated?
- 21 A. Yes, that's a quote from my
- 22 declaration and I stand by that.
- 23 Q. So would you agree that in the
- 24 embodiments disclosed in Price, they basically
- 25 talk to software versioning and software

- 1 patching as ways to keep software updated on
- 2 subscribing devices?
- A. Generally speaking, they pertain
- 4 to the -- Price and pertains to updating
- 5 software.
- 6 Q. Can you point me to any
- 7 disclosure in the Plamondon reference for the
- 8 embodiments that you are relying on in your
- 9 declaration where Plamondon states that it's
- 10 needed a solution for software versioning and
- 11 software updating problems?
- 12 A. It's my opinion that a person of
- ordinary skill in reading Plamondon would have
- 14 given what was well known at the time, would
- 15 have inferred that there was a problem, a
- 16 potential problem of having to maintain
- 17 consistent and up-to-date versions of software
- 18 and that -- and that Price would have offered a
- 19 solution to that problem that one of ordinary
- 20 skill would have inferred.
- 21 Plamondon does refer to version
- 22 numbers of -- well, it does at some point refer
- 23 to version numbers of software. But what I
- 24 believe one of ordinary skill would have
- 25 inferred that problem from Plamondon.

```
1
                         Would the embodiments in
                0.
 2
       Plamondon that you relied on, in forming your
 3
       opinions, would those embodiments in Plamondon
       work for their intended purpose without adding
 4
 5
       any solutions that may be proposed in Price?
 6
                       MR. WICHMAN:
                                       Objection. Form.
 7
                         THE WITNESS: Are you referring
 8
       to any particular -- copies of a particular
 9
       claim or a particular part of Plamondon?
10
       BY MR. DUNHAM:
11
                0.
                         No. You relied -- you said
12
       you've read the entirety of Plamondon, correct?
13
                A.
                         Yes.
14
                0.
                         And you selected certain
15
       embodiments from Plamondon that you discuss in
16
       the analysis in your declaration, correct?
17
                         MR. WICHMAN: Objection. Form.
18
                         THE WITNESS: Can you repeat the
19
       question, please?
       BY MR. DUNHAM:
20
21
                         Sure. I believe you testified
22
       you read the entirety of Plamondon, correct?
23
                         Yes.
                A.
24
                        And you discussed certain
25
       embodiments from Plamondon as part of your
```

- 1 analysis in your declaration, correct?
- A. In my declaration, I do speak
- 3 about various different embodiments of
- 4 Plamondon.
- 5 Q. Sure. And the question is: For
- 6 the embodiments of Plamondon that you reference
- 7 in your declaration, would those embodiments
- 8 work for their intended purpose without adding a
- 9 solution for software versioning and updating as
- 10 described in Price?
- 11 A. It depends on the setting that
- 12 one is in, as I mentioned, one of ordinary skill
- in the art, when applying Plamondon in a
- 14 practical setting would have, you know, would
- have, as I describe in my declaration, would
- 16 have known that there are software updates that
- happen to address, for instance, security issues
- 18 that might arise in a particular implementation
- 19 of a particular piece of functionality for some
- 20 software.
- 21 And so in that sort of practical
- 22 setting, where we are constantly evolving our
- 23 software, adapting our specific implementations
- 24 of functionality that -- in those cases, it is
- 25 important to keep software up to date, and as I

```
1
       mention in my declaration, I pointed to the fact
 2
       that it was well known at the time that ideally
 3
       the software updates would be automated.
                         So in terms of sort of
 4
 5
       theoretical, idealized version of Plamondon, if
 6
       one were to assume a perfect, flawless
 7
       implementation, which is essentially impossible,
       or not impossible, I don't want to say
 8
 9
       impossible, but essentially, you know, very
10
       rare, it's not expected in a practical setting,
11
       but in that very theoretical scenario where one
12
       did not need to ever update any software, then
       -- then one wouldn't need any more versions of
13
       software, but I don't know, I'm not really
14
15
       familiar with any software in a practical
16
       setting where when we're trying to apply the
17
       teachings of Plamondon, that one would not have
18
       observed the need to keep the software up to
19
       date.
                         It's -- Plamondon is a very
20
21
       powerful and feature-full system with many
```

different functions, and moreover, even -- even

if the implementation of Plamondon itself were

example, TCP, for example, and even in these

perfect, it makes use of -- of HTTP, for

22

23

24

25

IPR2022-00138, EX. 2010

- 1 cases, there are -- there are updates and there
- 2 are also, as Plamondon -- you know, specific
- 3 versions of operating systems, and I think it's
- 4 well known -- it was well known to -- it was
- 5 well known to one of ordinary skill in the art
- 6 that there are operating system versions of
- 7 these as well, and so -- so I think in a very
- 8 practical setting like that, it would be
- 9 recognized by one of ordinary skill at the time
- 10 that they would have recognized how important it
- 11 would be to have software updates.
- 12 Q. I may come back to the Price
- 13 reference, but I'd like now for you to turn to
- 14 the Kozat reference for the moment, Exhibit
- 15 1024.
- 16 A. I have that reference in front of
- 17 me.
- 18 Q. In connection with the work that
- 19 you've done in this matter, was the Kozat
- 20 reference something that was provided to you, or
- 21 is this something that you uncovered or brought
- 22 to you in the process of performing your
- 23 analysis?
- 24 A. I don't recall.
- Q. Do you recall bringing any

- 1 references to the attention of counsel in this
- 2 particular matter, references that were not
- 3 provided to you?
- 4 A. Yes, absolutely. For example,
- 5 I'm just going to turn back to the exhibit list.
- 6 I'll provide some examples.
- 7 Exhibit Number 1033, Peterson
- 8 text, 1034, I believe -- actually, sorry, I take
- 9 that back.
- 10 1038, that NIST publication; I
- 11 believe 1041, Prem Ramaswami -- I'm sorry, I
- 12 take that back.
- 13 1045, Ratnasamy; 1044, Rowstron;
- 14 1046, the Padmanabhan; and 047, the Freedman
- 15 reference and several others.
- 16 So there were quite a few that I
- 17 had brought to lawyers, but as for Kozat
- 18 specifically, I just don't recall off the top of
- 19 my head.
- Q. Did you review the Kozat
- 21 reference in its entirety?
- A. Yes, I did.
- Q. Would you agree that the Kozat
- 24 patent publication is directed to a system and
- 25 method for media streaming in a peer-to-peer

- 1 network?
- A. A system, method and apparatus,
- just to be clear, these are some legal patent
- 4 terms, I just want to make sure that I'm not
- 5 agreeing to something that -- that's not there.
- 6 I was just saying that --
- 7 (Court reporter seeks
- 8 clarification.)
- 9 THE WITNESS: I just want to make
- 10 sure that some of the legal patent terms, that
- 11 I'm not confusing or shortcutting anything. It
- 12 describes the system, method and apparatus for
- 13 media streaming with online caching and
- 14 peer-to-peer forwarding.
- 15 BY MR. DUNHAM:
- 16 Q. I'm sorry, could you please
- 17 repeat that answer because some of the audio cut
- 18 out for me.
- 19 A. Sorry. I wanted to be clear, so
- 20 as not to get any of the patent language wrong.
- 21 I believe you mentioned a system and method. I
- 22 just want to make sure I'm not shortcutting
- 23 anything or misrepresenting this Kozat
- 24 reference. It mentions that it's a system,
- 25 method and apparatus for media streaming with

- online caching and peer-to-peer forwarding.
- Q. Okay. Can you point me to any
- disclosure in Plamondon for the embodiments you
- 4 relied on that stated that Plamondon needed a
- 5 solution for caching and streaming media content
- 6 to and from peers in a peer-to-peer network?
- 7 A. I can point you to a couple
- 8 things. First paragraph, 0439, of Plamondon
- 9 mentions the techniques or portions thereof of
- 10 method 500 and 550 described above, may be
- 11 performed together in the same appliance 200, or
- 12 in a plurality of appliances acting in
- 13 conjunction or cooperation with each other.
- 14 One of ordinary skill at the time
- 15 would have recognized that as -- as being
- 16 implementable by a peer-to-peer system.
- 17 As for -- you mentioned media
- 18 streaming, if I can have just one more moment --
- 19 (Court reporter seeks
- 20 clarification.)
- 21 THE WITNESS: Just give me one
- 22 moment to address that other part.
- 23 In the -- sorry. In my '319
- 24 declaration on page 92, paragraph 243, I mention
- 25 that when Plamondon -- paragraph 0246, that it

- 1 discloses streaming video and/or audio.
- 2 BY MR. DUNHAM:
- 3 Q. Would the embodiments of
- 4 Plamondon that you relied on in your declaration
- 5 work for their intended purpose without adding
- 6 any solutions that may be presented in the Kozat
- 7 reference?
- A. If -- so what -- what one of
- 9 ordinary skill in the art would have recognized
- 10 as a problem with Plamondon's architecture is
- 11 what might happen if an appliance alone would
- 12 not have sufficient capacity to cache as much
- 13 content as one might want to achieve the
- 14 performance of -- of improvements that
- 15 Plamondon's architecture tries to achieve, and
- 16 that's where the motivation to combine with
- 17 Kozat would have been clear to one of ordinary
- 18 skill in the art at the time.
- 19 However, provided that there is
- 20 enough storage capacity at a, say, given
- 21 appliance 200, it may not strictly need it.
- 22 It would somewhat depend on what
- 23 the -- what the context of the deployment is and
- 24 what the desired performance improvements would
- 25 be.

```
1 Q. I'd like you to turn to paragraph
```

- 2 61 of your declaration from the '319 patent and
- 3 I'm really pointing you there by way of
- 4 reference.
- 5 A. Paragraph 61 of the -- of my '319
- 6 declaration; is that correct?
- 7 O. Yes. I'm interested in the
- 8 section entitled: "Proxies and middle boxes,"
- 9 that starts I guess at paragraph 61.
- 10 A. I'm at that section.
- 11 Q. Okay. Would you agree that in
- 12 October of -- do you need a minute to review,
- 13 sir, I'm happy to wait.
- 14 A. Just a moment.
- 15 Q. Certainly.
- 16 A. I've reviewed that section.
- 17 Q. Great. Is it your opinion that
- in October of 2009, a person of ordinary skill
- 19 in the art would have known how to use a proxy
- 20 server as an intermediary between a client
- 21 device and a web server?
- 22 A. One of ordinary skill would have
- 23 known of -- of some ways to use a proxy server
- 24 as an intermediary between a client and a web
- 25 server.

```
1
                0.
                         And when a proxy server, as of
 2
       October 2009, was used as an intermediary
 3
       between a client device and a web server, would
       that proxy server be forwarding packets that it
 5
       received from the client device and then
       forwarding those packets to the web server?
 6
 7
                         As I describe in this section, it
                A.
 8
       depends. There are some proxies that do
 9
       essentially forward packets and there are
10
       others, as I describe in this section, that
11
       would not necessarily just forward packets
12
       exactly as they are.
13
                         In fact, I even mention here, I
14
       mention this notion of a web proxy -- I mention
15
       paragraph 64, for example, a web proxy can store
16
       copies of web pages it has obtained on behalf of
17
       clients and then when a future request asks for
18
       the same content, the proxy may simply return
19
       its copy rather than forward the request to the
       ultimate destination.
20
21
                         So it's not always necessary that
       it simply forwards the packets. In fact, it may
22
23
       not send any packets along to another -- another
       server at all, but these proxies in general
24
25
       don't necessarily have to precisely forward
```

- 1 packets. Some do, but not all of them.
- 2 Q. I'm sorry?
- A. I was saying some do but not all
- 4 of them.
- 5 Q. So in the case of an intermediary
- 6 proxy that does not have any content cached on
- 7 it, would that type of proxy forward packets
- 8 received from a client device on to a web server
- 9 that would have the desired content?
- 10 A. Again, not necessarily in every
- 11 embodiment of a proxy. So they might issue a
- 12 slightly different request, for example.
- 13 Q. I see. You mentioned something
- 14 in paragraph 64 I'm interested in.
- 15 Would you agree that because
- 16 proxy servers operate at a higher level of
- abstraction, a route or a switch, proxy servers
- 18 can perform additional processing that a router
- 19 or switch cannot?
- 20 A. That doesn't completely
- 21 characterize what I said. I said proxies
- 22 typically operate at a higher level of
- 23 abstraction, and that they -- as a result, that
- 24 they can operate at those higher levels of --
- 25 I'm sorry, I'm sorry, I think I just misspoke.

- 1 I think I just said at a higher
- 2 level of abstraction. I meant at a higher layer
- 3 in the networking stack.
- 4 (Court reporter seeks
- 5 clarification.)
- 6 THE WITNESS: Routers and
- 7 switches operate at layer 3. Proxies typically
- 8 operate at layer 4 or above. Not always
- 9 necessarily, but they can, and also, just to --
- 10 just to clarify, I'm speaking to the extent that
- 11 your question referred to operating at a higher
- 12 layer than -- than routers or switches, for
- 13 example.
- 14 So they can operate at this
- 15 higher layer and doing so does allow them to do
- 16 additional processing that something operating
- 17 strictly at a lower layer would not able to do.
- 18 BY MR. DUNHAM:
- 19 Q. I'd like you to turn back to the
- 20 Plamondon reference, please, and I would draw
- 21 your attention just as a reference point again
- 22 to paragraph 9.
- 23 A. Paragraph 9 of Plamondon or of my
- 24 declaration?
- Q. Of Plamondon, sir.

```
A. Oh, I'm sorry. Okay. I'm in
```

- 2 paragraph 9.
- 3 Q. So I'm interested in the
- 4 prefetching technique that is disclosed in
- 5 Plamondon. For example, as mentioned in
- 6 paragraph 9.
- 7 And my question is: Would you
- 8 agree that Plamondon teaches this prefetching
- 9 technique to be used before a client has made a
- 10 request for the particular content?
- 11 A. I'm not sure I would necessarily
- 12 agree with that characterization. It's possible
- 13 that that client had requested it in the past,
- 14 and this is another request -- and then later in
- 15 the future, prefetching is applied in
- 16 anticipation of that client potentially making
- 17 that request, which might be the first time
- 18 they're making the request, it might be a
- 19 subsequent time that they've made the request,
- 20 but that the goal specifically with prefetching
- 21 is to try to, as it explains, is to try to
- 22 anticipate what that client will request in the
- 23 hopes of getting it ahead -- ahead of that
- 24 request.
- Q. Okay. Would you agree, sir, that

- 1 the challenged claims in this case relate to
- 2 fetching content after a client has made a
- 3 request for the content?
- 4 MR. WICHMAN: Objection. Form.
- 5 THE WITNESS: I would not
- 6 necessarily characterize it as such.
- 7 May I have this question read
- 8 back to me one more time.
- 9 BY MR. DUNHAM:
- 10 Q. All right. I'd like to wait
- 11 until the sirens clear, if we could.
- 12 A. Oh, sure, sure.
- 13 Q. My question, sir, is: Would you
- 14 agree that the challenged claims in these
- 15 matters relate to fetching content after the
- 16 client has made a request for the content?
- 17 MR. WICHMAN: Objection. Form.
- 18 THE WITNESS: I would not
- 19 necessarily characterize it as such, no.
- 20 BY MR. DUNHAM:
- 21 Q. If you look at the '319 patent,
- 22 claim 1.
- Do you have that in front of you,
- 24 sir?
- 25 A. I do.

- 1 Q. Do you see the first step, it
- 2 says: "Receiving from the second server, the
- 3 first content identifier"?
- A. I see that step, yes.
- 5 Q. Do you understand that that is
- 6 the first client device receiving request for
- 7 content?
- A. I understand that's the first
- 9 client device receiving the first content
- 10 identifier from the second server.
- 11 Q. So would the first client device
- 12 receive that first content identifier before
- 13 there was a request for content?
- 14 A. I don't see that the claim
- 15 necessarily limits it to that.
- 16 Q. So what is your understanding of
- 17 the claim, then? Your understanding of the
- 18 claim that the -- let me make sure I quote the
- 19 language. Is your understanding of claim 1 of
- 20 the '319 patent that the -- receiving from the
- 21 second server, the first content identifier step
- 22 will occur before there's a request for content.
- MR. WICHMAN: Objection.
- 24 THE WITNESS: So my understanding
- 25 in reading claim 1 of the '319 patent is that it

- does not necessarily say the order in which all
- 2 of these steps occur.
- 3
 It says, for example, you're
- 4 referring to this first step, receiving from the
- 5 second server, the first content identifier, and
- 6 you're referring to the next step, sending to
- 7 the first server over the internet, a hypertext
- 8 transfer protocol request, HTTP request, that
- 9 comprises the first content identifier.
- 10 And if I understand your question
- 11 correctly, you're asking if that -- the
- 12 receiving of these two steps, you're asking if
- 13 the receiving step must always happen before the
- 14 sending step, and I would say the claim does not
- 15 limit it to happening precisely in that order.
- 16 It just says that these two steps
- 17 have been. And I think if it -- if it were
- 18 requiring that they happen in the order in which
- 19 they're listed, then -- then I wouldn't
- 20 understand the need for claim 27, which says the
- 21 -- it's a dependent claim on claim 1, the
- 22 method, according to claim 1 wherein the steps
- 23 are sequentially executed.
- 24 So because there was nothing in
- 25 claim 1 that says that the receiving from the

- 1 second server in the first content identifier
- 2 has to happen before sending to the first server
- 3 over the internet, a hypertext transfer protocol
- 4 request that comprises the first content
- 5 identifier.
- 6 That -- the way that you put it,
- 7 that the second server would first be sending
- 8 the request for the first content identifier,
- 9 that -- I don't see that that step has to come
- 10 before the first client device sends the first
- 11 content identifier to the first server.
- 12 BY MR. DUNHAM:
- 13 Q. Well, can the fourth step of
- 14 claim 1 of the '319 patent occur before the
- 15 first step, under your understanding?
- 16 A. Under my understanding, that
- 17 fourth step, just to make sure it's clear to
- 18 everybody, is -- says: "Sending, the first
- 19 content by the first client's device to the
- 20 second server, in response to the receiving of
- 21 the first content identifier."
- 22 My understanding of -- of the --
- 23 of the language in this is that when it says:
- 24 "In response to the receiving of the first
- 25 content identifier," that at that point, it is

- 1 talking about that first step, receiving from
- 2 the second server, the first content identifier,
- 3 in which case that last step would have to be in
- 4 response to the first step.
- 5 So in that case, as I would read
- 6 it, in response to that would mean that that
- 7 last step happens after the first step, but not
- 8 necessarily -- it doesn't confer where steps --
- 9 where step 2 would have to -- where in step 2
- 10 would have to happen in relation to step 1.
- 11 Q. So is it your position, then,
- 12 that according to your understanding, the claim
- 13 step 4, which is the sending step, second
- 14 sending step could -- could occur before step 2,
- 15 the first sending step, as the claim is drafted?
- 16 A. I don't see the claim limiting
- 17 it, so that step 2 could not happen after the
- 18 fourth step.
- 19 Q. I'd like you to turn back to your
- 20 135 declaration, please, and tell me when you're
- 21 there, please.
- 22 A. Yeah, I have that declaration in
- 23 front of me.
- Q. I'm sorry, your video keeps
- 25 freezing. So basically, I see a still image of

- 1 you and I'm not aware of what's happening after
- 2 that.
- 3 A. Sorry. I have the declaration in
- 4 front of me. Was there a particular paragraph?
- 5 Q. Yes. I'd like you to look at 444
- 6 and maybe if you could read that through 448 and
- 7 let me know when you've reviewed those.
- 8 A. Okay. I've -- I've reread those
- 9 paragraphs.
- 10 Q. Thank you. I have some questions
- 11 about something you refer to in here as
- 12 Plamondon-Price, the Plamondon-Price
- 13 combination.
- 14 Do you see that reference?
- 15 A. Yes, I do.
- 16 Q. By that Plamondon-Price
- 17 combination, are you referring to Plamondon as
- 18 modified by certain teachings from Price as you
- 19 describe in your declaration?
- 20 A. I describe, you know, specific
- 21 elements, the specific components of Plamondon,
- the appliance 200, appliance 102, 102, AB6
- 23 support. I'm taking on the additional
- 24 functionality of Price as described in my
- 25 declaration.

- 1 Q. So I'm just trying to get to
- 2 common vocabulary with you.
- 3 A. Sure.
- 4 Q. If I refer to Plamondon-Price
- 5 combination, will you understand that to mean
- 6 the combination as you envisioned Plamondon
- 7 modified by Price?
- A. Yes, I'll agree with that.
- 9 Q. Okay. Under your understanding
- 10 of the Plamondon-Price combination that you
- 11 envision, when appliance 200 intercepts a
- 12 request for updated software that was requested
- 13 by client 102A, will the appliance 200 download
- 14 the software from a web server and then forward
- 15 that software to client 102A?
- 16 A. As I mention in paragraph 448,
- 17 page 156, if the requested updated software
- 18 version is not already in appliance 200's cache,
- 19 appliance 200 downloads it over the internet
- 20 from the web server and forwards it to client
- 21 102A.
- Q. Okay. So let's -- let's work
- 23 with that embodiment as you've described it,
- 24 where the requested updated software was not
- 25 already in the cache of appliance 200, so

- 1 appliance 200 downloaded that software from a
- 2 web server and forwarded it to client 102A.
- 3 Are you with me?
- A. I'm with you.
- 5 Q. In that example of
- 6 Plamondon-Price as you envision it, when
- 7 appliance 200 downloads the updated software
- 8 from the web server and forwards it to client
- 9 102A, would appliance 200 also cache a copy of
- 10 that updated software in its cache?
- 11 A. Potentially, yes.
- 12 Q. Under what circumstances would
- 13 appliance 200 not cache the updated software
- 14 when it retrieved it from the web server and
- 15 forwarded it to client 102A?
- 16 A. It depends how exactly the
- 17 caching would be implemented. Or if, for
- 18 example, there was an error in writing into the
- 19 cache -- there could be some exceptions to it,
- 20 but it, generally speaking, as a caching proxy,
- 21 it -- you know, barring some of these
- 22 exceptions, that's when -- it certainly could
- 23 cache it.
- Q. Okay. So once that sequence has
- 25 occurred, is it your position that in the

- 1 Plamondon-Price combination, client 102A would
- 2 be acting as the coordinating computer?
- A. Would you mind repeating the
- 4 question, please.
- 5 Q. Sure. So after that sequence has
- 6 occurred -- strike that.
- 7 Let me ask you this as a
- 8 prefatory question. Is it your understanding --
- 9 strike that. Let me really try again.
- 10 In your envisionment of the
- 11 Plamondon-Price computer, would client 102A from
- 12 Plamondon be operating as the coordinating
- 13 computer?
- 14 A. Client 102A in the
- 15 Plamondon-Price combination that I described in
- 16 my declaration, acts as the coordinating
- 17 computer that's described by Price.
- 18 Q. So under the scenario we were
- 19 discussing, where client 102A has requested
- 20 updated software and appliance 200 did not have
- 21 that software in cache, so appliance 200 went
- 22 out to a web server, downloaded the software and
- 23 forwarded it back to client 102A, client 102A
- 24 would be receiving that software as the
- 25 coordinating computer, correct?

```
1
                         I'm not quite understanding the
 2
       question. If client 102A -- because it is the
 3
       coordinating computer in the Price-Plamondon
       combination, because of that, in this particular
 4
 5
       embodiment, it -- it -- that caused it to make
 6
       the request, at the point where it is issuing
 7
       that request, at the point where it's receiving
 8
       the data from appliance 200 in this case.
                         It's -- at that point, that's
 9
       where it's acting in the role of the client 102A
10
       from -- from Plamondon, but this is in that
11
12
       broader context of it doing this because of its
13
       -- because of its functionality as the
14
       coordinating computer.
15
                         Well, I'm interested in the
       sentence at the start of paragraph 449 that
16
17
       says: "Subsequently," so that's following from
18
       paragraph --
19
                          (Court reporter seeks
20
       clarification.)
21
       BY MR. DUNHAM:
22
                0.
                         So let me start again so we have
23
       a clear record.
                         So I'm interested in the first
24
25
```

sentence of paragraph 449 that reads:

```
1
       "Subsequently, Price's coordinating computer
 2
       embodied in Plamondon's client 102A in the
 3
       Plamondon-Price combination, proceeds per
       Price's method which Plamondon-Price carries out
 4
 5
       to transmit the updated software version to
       appliance 200 functioning as a managed device in
 6
 7
       Price's method" -- I'm sorry, let me strike that
       because I messed up my quote of your dec and I
       don't want to have that in the record so let me
 9
10
       begin again, please.
                         Looking at paragraph 449 and I'm
11
12
       interested in the first sentence that's
13
       following the discussion we've had from
14
       paragraph 448, where that first sentence reads:
15
       "Subsequently, Price's coordinating computer
16
       embodied in Plamondon's client 102A in the
17
       Plamondon-Price combination, proceeds per
       Price's method which Plamondon-Price carries out
18
19
       to transmit the updated software version to
20
       appliance 200 so that appliance 200 functioning
21
       as a managed device in Price's method can
22
       install it."
23
                         Do you see that language?
24
                A .
                         I see that language, yes.
25
                Q.
                         I'm just making sure I understand
```

- 1 the flow, and -- between paragraph 448 and
- 2 paragraph 449 that we just reviewed, is it your
- 3 understanding that when appliance 200 downloads
- 4 software that client 102A has requested it and
- 5 appliance 200 forwards that software to client
- 6 102A, acting as the coordinating computer,
- 7 client 102A is going to transmit that updated
- 8 software back to appliance 200.
- 9 A. Yes, that's what I described
- 10 here.
- 11 Q. All right. Why would client 102A
- 12 need to forward the software back to appliance
- 13 200 if appliance 200 had just downloaded a fresh
- 14 copy of that software from the web server?
- 15 A. Though these -- the facts that,
- 16 you know, in this -- in this -- in this
- 17 combination of Plamondon-Price that I described,
- 18 the fact that client 102A would take on the
- 19 functionality of Price's coordinating computer
- 20 does not necessarily mean that we're starting
- 21 with the Plamondon software and modifying that
- 22 software. It could mean that we're running the
- 23 Price software on that same device.
- 24 And so as a result, this cache
- 25 that's there in appliance 200 that we described

- in paragraph 448, that's the cache that's part
- 2 of the Plamondon software, but it's very, very
- 3 common to have two different software
- 4 applications running on the same computing
- 5 device that might each have their own -- their
- 6 own, you know, form of optimizations, their own
- 7 caches, their own, in general, information that
- 8 these two pieces of software might not know
- 9 about from one another.
- 10 For example, you might have a --
- 11 an email client, for example, that is
- 12 downloading icons as part of rendering an email,
- and it's possible those icons are getting
- 14 downloaded from a web server, for example. It's
- 15 possible that on your computer, you also have a
- 16 web browser that has previously downloaded those
- 17 -- those icons.
- 18 But if these pieces of software
- 19 are different, that email software might not
- 20 know that that content is already locally cached
- on that computer, because it might not know
- 22 everything that's going on in that other piece
- 23 of software.
- 24 So in this case of the
- 25 Plamondon-Price combination that I've described

```
here and this particular embodiment of it, this
 1
 2
       would be a case where -- where the Price
 3
       software may not be cognizant of -- of Plamondon
       being there. If anything, what I think that
 5
       this shows is just how, how -- how easy it would
       be to combine these two pieces of -- of art,
 6
 7
       Price and Plamondon, that they compose so well
       that they could do so without, I think, I think
 9
       one of ordinary skill in the art at the time
10
       would have also thought that you could combine
11
       them without them even necessarily having to
12
       really know about one another.
13
                         You wouldn't have to, like,
14
       reimplement Price or Plamondon or reimplement
15
       Plamondon-Price. These could be two pieces of
       software running on similar -- similar kinds of
16
       communication devices that they described in
17
       their respective patents, and -- and that they
18
19
       would compose well in that regard.
20
                         So -- so that's why, you know,
21
       the -- the nice thing about having modularity
       and having separation in the software that we
22
       make, it's fantastic, because that means we can
23
       innovate in one without having to necessarily
24
```

25

know all of the details of every other piece of

1 software that's running on a computer system. 2 But the one potential downside of 3 these layers of the social abstraction and isolation as it's sometimes referred to in 5 computing terms, as a term of art, one of the 6 potential downsides is that sometimes you do end 7 up missing out on potential optimizations like that. 9 When I describe a particular 10 embodiment that would have been clear to the person of ordinary skill in the art at the time, 11 12 that would have been a very straightforward way of combining them and one that would have 13 14 combined them in a way that I think would have 15 conferred reasonable expectations of success. 16 So you would agree that as 17 described in paragraph 448 and 449 of your -- of 18 your declaration, that in the Price-Plamondon 19 combination you envisioned, the coordinating 20 computer transmitting a copy of the updated 21 software that it just received from appliance 22 200 and transmitting it back up to appliance 200 23 would be an unnecessary extra step, right? 24 MR. WICHMAN: Objection. 25 THE WITNESS: I'm not sure I

- 1 would characterize it that way.
- 2 BY MR. DUNHAM:
- 3 Q. Would you agree that in the
- 4 Price-Plamondon combination that you describe in
- 5 paragraph 448 and 449, if the client 102A that
- 6 had just received the updated software from
- 7 client 200 did not send that software back to
- 8 appliance 200, then the remainder of the method
- 9 would continue to operate, correct?
- 10 MR. WICHMAN: Objection.
- 11 THE WITNESS: Sorry, the
- 12 remainder of -- of what method?
- 13 BY MR. DUNHAM:
- 14 Q. The -- let me ask it a different
- 15 way.
- Would you agree that if Price --
- 17 if the Plamondon client 102A acting as the Price
- 18 coordinating computer in the Price-Plamondon
- 19 combination that you envisioned, if that
- 20 coordinating computer did not send the updated
- 21 software back to appliance 200, appliance 200
- 22 would still have that software in its cache from
- 23 when it obtained it for client 102 in the first
- 24 instance?
- A. As I said earlier, it depends on

- 1 whether or not it cached it, whether or not it
- 2 cached it in its entirety. It potentially
- 3 could, but it's not necessarily guaranteed that
- 4 it would completely be inside of that cache.
- 5 Q. So it's your testimony, as an
- 6 expert today, in the method you envision
- 7 operating as described in paragraph 448 and 449,
- 8 if appliance 200 obtained an updated copy of
- 9 software for client 102, forwarded it to client
- 10 102 and client 102 forwarded it right back to
- 11 the appliance 200, that the appliance might not
- 12 have that software from when it downloaded it,
- 13 but it would have that software in cache from
- 14 when client 102 forwarded it right back to it?
- 15 MR. WICHMAN: Objection.
- 16 THE WITNESS: A couple of -- a
- 17 couple things about that -- that question you
- 18 just said. You referred to 102. Here we were
- 19 referring to 102A.
- 20 BY MR. DUNHAM:
- 21 Q. Sure. So let me ask -- let me
- 22 ask the question again. I want to make sure on
- 23 the record your expert testimony, sir, is that
- 24 in the Plamondon-Price combination that you
- 25 describe in paragraphs 448 and 449, it is your

- 1 testimony today here, under oath, that if
- 2 appliance 200 obtained updated software
- 3 requested by client 102A, if appliance 200
- 4 forwarded that updated software to client 102A
- 5 and client 102A forwarded that software back to
- 6 appliance 200, it is your testimony that
- 7 appliance 200 might not have that software in
- 8 its cache from when it obtained it, but would
- 9 have its software in its cache from when client
- 10 102A forwarded it right back to it?
- MR. WICHMAN: Objection.
- 12 THE WITNESS: I'm not sure which
- 13 cache you're referring to when you say that
- 14 client 102A forwards that software update to
- 15 appliance 200.
- 16 I don't think I said anything
- 17 about when client 102A, acting as the
- 18 coordinating computer and when it uploads --
- 19 when it transmits the updated software from
- 20 client 102A to appliance 200, I don't think that
- 21 I said anything about that getting put into a
- 22 cache, I'm not sure which cache that you're
- 23 referring to there.
- 24 BY MR. DUNHAM:
- Q. Well, according to paragraph 449,

- 1 when client 102A transmits the updated software
- 2 version to appliance 200, what is appliance 200
- 3 doing with it?
- A. It's receiving that transmitted
- 5 software update.
- 6 Q. I'd like you to turn to paragraph
- 7 459 of your declaration.
- 8 A. You said 459; is that correct?
- 9 Q. Yes, sir.
- 10 MR. DUNHAM: And, in fact, I see
- 11 we've gone another full hour. Would you like to
- 12 take a short ten-minute break?
- 13 THE WITNESS: Yes, I would, if
- 14 that's all right.
- MR. DUNHAM: Sure.
- 16 THE VIDEOGRAPHER: The time is
- 17 1:47 p.m. and we're now off the record.
- 18 (Recess taken.)
- 19 THE VIDEOGRAPHER: The time is
- 20 1:57 p.m. and we're now back on the record.
- 21 BY MR. DUNHAM:
- 22 Q. Dr. Levin, if you could turn to
- 23 paragraph 314 of your declaration in the '319
- 24 patent, and I'm pointing you there again just
- 25 for reference purposes.

- A. Okay. I'm at 314 of my '319
- 2 declaration.
- Q. If you'd like to take a moment to
- 4 review it, please feel free to do so.
- 5 A. Okay. I've read it.
- 6 Q. I want to call your attention to
- 7 the phrase "prefetcher 904," that's right at the
- 8 start of paragraph 314.
- 9 Do you see that?
- 10 A. Yes, I see that.
- 11 Q. My question, sir, is: Would the
- 12 prefetcher 904 of Plamondon work to manage
- 13 caching in Plamondon without the addition of any
- 14 teachings from Kozat?
- 15 A. Yes, even without the teachings
- 16 from Kozat, prefetcher 904 could operate, as I
- 17 described in paragraph 314, without -- without
- 18 having to combine with Kozat.
- 19 MR. DUNHAM: Dr. Levin, I want to
- 20 thank you for your time today and subject to any
- 21 redirect by counsel for petitioner, patent owner
- 22 has no further questions at this time.
- MR. WICHMAN: Well, Tom, let's go
- 24 off the record for about ten minutes and think
- 25 about whether we have any redirect. Does that

- 1 sound good?
- 2 MR. DUNHAM: Sounds good. We'll
- 3 come back at 10 after.
- 4 MR. WICHMAN: Okay, Thanks.
- 5 THE VIDEOGRAPHER: The time is
- 6 2:01 p.m. and we're now off the record.
- 7 (RECESS TAKEN)
- 8 THE VIDEOGRAPHER: The time is
- 9 2:10 p.m. and we're now back on the record.
- 10 EXAMINATION
- 11 BY MR. WICHMAN:
- 12 Q. Dr. Levin, do you recall that
- 13 Mr. Dunham asked you about your testimony in
- 14 paragraph 388 of your declaration in support of
- 15 the petition on the '319 patent?
- 16 A. Yes.
- 17 Q. He asked you about the sentence
- 18 describing computing devices as general purpose
- 19 computers.
- 20 Do you recall that?
- 21 A. I recall.
- 22 Q. Can you turn to Plamondon
- 23 paragraph 238, this is Exhibit 1010, which he's
- 24 been referring to throughout the deposition.
- 25 Just let me know when --

- 1 A. Yes, I'm at 238 of Plamondon.
- 2 Q. So do you see the first sentence
- of paragraph 238, that this section in Plamondon
- 4 refers to computing device 100?
- 5 A. Yes, I see that.
- 6 Q. It says that: "Computing device
- 7 100 may have different processors, operating
- 8 systems and duplicate devices consistent with
- 9 the device"?
- 10 A. I see that, yes.
- 11 Q. Okay. Thank you.
- 12 And if you drop down to the last
- sentence of this paragraph, can you read that
- 14 for me, please.
- 15 A. This is the sentence starting:
- 16 "Moreover."
- 17 "Moreover, the computing device
- 18 100 can be any work station, desktop computer,
- 19 laptop or notebook computer, server, handheld
- 20 computer, mobile telephone, Smartphone, any
- 21 other computer, or other form of computing or
- 22 telecommunications device that is capable of
- 23 communication and that has sufficient processer
- 24 power and memory capacity to perform the
- 25 operations described herein."

- 1 Q. So in that -- in that list of
- 2 things that the computing device 100 can be,
- 3 would some of those things fit the description,
- 4 general purpose computer?
- 5 A. Some of them would.
- 6 MR. DUNHAM: Objection. Leading.
- 7 Sorry, sir. I need to have time to object.
- 8 Objection. Leading.
- 9 THE WITNESS: Looking at this
- 10 paragraph, I'm going to say that some of these
- 11 could be considered general purpose computing
- 12 devices -- I'm sorry, I think you said general
- 13 purpose computers.
- 14 BY MR. WICHMAN:
- 15 Q. Would a POSA reading this
- 16 sentence understand it to describe only general
- 17 purpose computers?
- 18 A. I don't believe a person of
- 19 ordinary skill at the time would have read it to
- 20 only mean general purpose, particularly given
- 21 that it says: "Any other computer or other form
- of computing or telecommunications device that
- 23 is capable of communications and that has
- 24 sufficient processer power and memory capacity
- 25 to perform the operations described herein."

```
1
                         So even if it weren't completely
 2
       general purpose, to the extent that that means a
 3
       computer that -- to the extent of that being any
       form of -- to the extent that that is not a
 4
 5
       special purpose computer is what we call it,
 6
       then no, I don't think a person of ordinary
 7
       skill would say that it's strictly limited to
 8
       what might be termed a general purpose computer.
 9
                         So the person of ordinary skill
10
       in the art reading Plamondon, paragraph 238,
11
       would they have understood that a computing
12
       device 100 is not limited to a general purpose
13
       computer?
14
                A.
                         That's my opinion, yes.
15
                         MR. WICHMAN: No further
16
       questions.
17
                                      Nothing further from
                         MR. DUNHAM:
18
       patent owner.
19
                         MR. WICHMAN:
                                      Can we go off the
20
       record.
21
                         MR. DUNHAM:
                                      Yes, please.
22
                         THE VIDEOGRAPHER: Counsel, can I
       go off the video record?
23
24
                         MR. WICHMAN: Yes, please.
25
                         THE COURT: Thank you. Or the
```

Page 157 audio record? The audio record, I apologize. The time is 2:14 p.m. and we're now off the record. MR. WICHMAN: Dr. Levin is going to read and sign.

1	CERTIFICATE
2	
3	
4	I, Karen Friedlander, a
5	Certified Court Reporter of the State of New
6	Jersey, do hereby certify that prior to the
7	commencement of the examination, the witness
8	and/or witnesses were sworn by me to testify to
9	the truth and nothing but the truth.
10	I do further certify that the
11	foregoing is a true and accurate computer-aided
12	transcript of the testimony as taken
13	stenographically by and before me at the time,
14	place and on the date hereinbefore set forth.
15	I do further certify that I am
16	neither of counsel nor attorney for any party in
17	this action that I am not interested in the
18	event nor outcome of this litigation.
19	
20	
21	S/Karen Friedlander Certified Court Reporter License No. XI01282
22	Dated: 7-23-22
23	
24	
25	

*** ERRATA	SHEET ***
CASE: The Data Company T	Pechnologies
DATE: July 22, 2022	JOB NO.: 5325
WITNESS: Dave Levin	
PAGE/LINE CHANGE	REASON
·	
No. line	Touris
Subscribed and sworn to	Levin
this day of	
chib day or	
Notary Public	

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