

1 UNITED STATES PATENT AND TRADEMARK OFFICE  
2  
3 BEFORE THE PATENT TRIAL AND APPEAL BOARD  
4  
5

6 APPLE INC.  
7 Petitioner  
8 v.

9 VIRNETX INC. AND APPLICATION  
10 INTERNATIONAL CORPORATION  
11 Patent Owner  
12

13  
14 Case No. IPR2015-00810 (Patent 8,868,705 B2)  
15 Case No. IPR2015-00811 (Patent 8,868,705 B2)  
16 Case No. IPR2015-00812 (Patent 8,850,009 B2)  
17  
18

19 DEPOSITION OF FABIAN MONROSE, Ph.D.  
20 Washington, D.C.  
21 Thursday, March 3, 2016  
22  
23

24 Reported by: John L. Harmonson, RPR  
25 Job No. 103298

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March 3, 2016

9:32 a.m.

Deposition of FABIAN MONROSE, Ph.D., held at  
the offices of Paul Hastings LLP, 875 15th  
Street, N.W., Washington, D.C., before John L.  
Harmonson, a Registered Professional Reporter and  
Notary Public of the District of Columbia, who  
officiated in administering the oath to the  
witness.

A P P E A R A N C E S

On Behalf of Petitioner, Apple Inc.:

SIDLEY AUSTIN

1501 K Street, N.W.

Washington, D.C. 20005

BY: SCOTT BORDER, ESQ.

THOMAS BROUGHAN III, ESQ.

On Behalf of Patent Owner, VirnetX Inc.:

PAUL HASTINGS

875 Fifteenth Street

Washington, D.C. 20005

BY: DANIEL ZEILBERGER, ESQ.

JOSEPH PALYS, ESQ.

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P R O C E E D I N G S

9:32 a.m.  
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Whereupon,

FABIAN MONROSE, Ph.D.,

after having been first duly sworn or affirmed,  
was examined and did testify under oath as  
follows:

EXAMINATION

BY MR. BORDER:

Q. Good morning, Dr. Monroe.

A. Good morning.

Q. This is not the first time you've been  
deposed in this series of proceedings, correct?

A. That is correct.

Q. So as you know, if you need to take a  
break, please let me know. If you don't mind,  
let me finish my line of questioning, but if you  
need a break, again just let me know.

Give your counsel time to object. To  
the extent that he does not instruct you not to  
answer, please answer my question.

All right. Let's start with your

1 declaration in -- So there's three declarations  
2 you've filed, as you might recall, the 810, 811  
3 and the 812 proceedings. Is it okay if we just  
4 refer to them as 810, 811, 812?

5 A. That will be fine.

6 Q. There's two that involve Beser and  
7 there's one that involves Aventail. Do you have  
8 copies of them already?

9 A. I do.

10 Q. So let's start with the 811. I'll  
11 just hand your counsel -- this is Exhibit 216 in  
12 the 811 proceeding.

13 All right. Why don't we -- why don't  
14 we turn to Paragraph 30. Do you have it?

15 A. I do. Paragraph 30.

16 Q. Why did you bold "in the connection  
17 request" in Paragraph 30?

18 A. As stated here in my declaration, I  
19 believe that the petitioner points to the  
20 connection request, and I'm responding to that  
21 alleged as meeting the limitations. And  
22 furthermore, during the deposition of  
23 Dr. Tamassia, he in fact indicated that what he  
24 was pointing to is in fact the connection  
25 request.

1           And so as I state here, this is  
2           indicated in box G in his flow chart during  
3           beginning of step 2 in Aventail.

4           Q.       So in your view, the connection  
5           request refers solely to the actions identified  
6           in box G from Exhibit 2014?

7           A.       I'm responding to what Dr. Tamassia  
8           points to as the connection request in box G.

9           Q.       What is your opinion as to what the  
10          connection request is in Aventail?

11          A.       So as stated in my declaration,  
12          Aventail discloses a series of steps for  
13          configuring -- in its administration guide for  
14          configuring Aventail Connect. So in particular,  
15          the summary of those features are described on  
16          pages 11 through 13 in the multiphased approach.

17                 So I would like to go through the  
18          multiphase approach to be clear of what's  
19          happening here. So the first part, DNS lookup is  
20          received at Aventail Connect from a client  
21          application. If the DNS -- if the destination  
22          host name in the DNS lookup matches the  
23          redirection rule or the DNS proxy option is  
24          enabled at the domain and the domain cannot be  
25          looked up directly, a false DNS entry is created.

1           It goes on to explain what the purpose  
2 of the redirection rules are, and then it  
3 specifically mentions that the checking of the  
4 redirection rules occur in that claimed step 1.  
5 Okay?

6           Again, on pages 11 to 13 of Aventail,  
7 it states in step 2 -- so this is after step 1,  
8 "The client application requests a connection to  
9 a remote host, and this connection request is  
10 checked by Aventail Connect. The connection may  
11 contain a previously created false entry that  
12 indicates whether the connection should be  
13 proxied."

14           It also mentions that during this  
15 stage, this is when a SOCKS negotiation would  
16 happen, and more importantly, that Aventail  
17 Connect will then send a proxy request to the  
18 extranet server. In particular, it says in  
19 steps -- let's call it 2B, "When the connection  
20 is completed, Aventail Connect begins the SOCKS  
21 negotiation."

22           The third step is that the application  
23 at that point then transmits and receives data in  
24 step 3.

25           So there are three explicit steps in

1     Aventail Connect.

2             Q.     So in your view, the connection  
3     request in the Aventail system occurs after the  
4     redirection rules are checked?

5             A.     So if my memory serves me correctly,  
6     and as stated in the declaration, in part 1,  
7     Aventail states: "If the destination host name  
8     in the DNS lookup matches a redirection rule, or  
9     the DNS proxy option is enabled and the domain  
10    cannot be looked up directly, a false entry is  
11    created by Aventail Connect and returned to the  
12    application."

13                It says: "A redirection rule," and  
14    we'll expand on it, "defines for destination what  
15    type of traffic, in particular whether it's TCP  
16    or UDP, will be allowed to be routed to that  
17    destination and the type of proxy redirection."

18                Aventail is specific in providing a  
19    table that says what the proxy redirection fields  
20    relate to. And as shown in the declaration,  
21    copied from Aventail, it provides some options  
22    including the ability to redirect, and that's  
23    redirect all traffic through its extranet server,  
24    perform no redirection, or deny service. In this  
25    case, deny service is to a specific destination.



1                   So in step 1, the redirection rules  
2                   are checked.

3           Q.       Okay. I'm going to ask that question  
4                   again because I don't think you answered it.

5                   Is it your opinion that the connection  
6                   request in Aventail is checked after the  
7                   redirection rules are checked? Let me restate  
8                   that.

9                   Is it your view that the connection  
10                  request occurs after the redirection rules are  
11                  checked?

12                   MR. ZEILBERGER: Objection to form.

13                   THE WITNESS: I think you asked  
14                   exactly what I answered.

15           BY MR. BORDER:

16           Q.       You never told me that the connection  
17                   request occurs after the redirection rules are  
18                   checked. Is that your testimony?

19                   MR. ZEILBERGER: Objection; form.

20           BY MR. BORDER:

21           Q.       To be clear, is it your opinion that  
22                   the connection request in Aventail occurs after  
23                   the redirection rules are checked?

24                   MR. ZEILBERGER: Objection; form.

25                   THE WITNESS: What I give an opinion

1 to was the petitioner's claim that in their  
2 specified connection request, which again  
3 Dr. Tamassia pointed to in his deposition  
4 what he was referring to, that in that case  
5 the redirection rules are not checked.

6 BY MR. BORDER:

7 Q. Dr. Monroe, my question is: Is it  
8 your opinion that the connection request in  
9 Aventail occurs after the redirection rules are  
10 checked?

11 MR. ZEILBERGER: Objection; form.

12 THE WITNESS: In my declaration I  
13 responded to the petitioner's alleged  
14 meeting of that limitation and showed that  
15 in fact the request, whether it is the proxy  
16 request that they're responding to or the  
17 connection request that they point to, are  
18 not checked against the redirection rule.

19 BY MR. BORDER:

20 Q. So you have no independent opinion as  
21 to when the connection request occurs in  
22 Aventail, correct?

23 MR. ZEILBERGER: Objection; form.

24 THE WITNESS: I don't know what you  
25 mean by "independent," but Aventail

1 specifically says that it happens after step  
2 1.

3 BY MR. BORDER:

4 Q. So you would agree that, in your  
5 opinion, the connection request occurs after step  
6 1 in Aventail?

7 MR. ZEILBERGER: Objection; form.

8 BY MR. BORDER:

9 Q. Let me ask it a different way: In  
10 your opinion, are the redirection rules checked  
11 in step 1 as laid out in pages 11 and 12 of  
12 Aventail?

13 A. In step 1, Aventail does disclose  
14 conditions where the redirection rules are  
15 checked.

16 Q. And in your view, the connection  
17 request occurs after those actions, correct?

18 MR. ZEILBERGER: Objection; form.

19 THE WITNESS: In my opinions expressed  
20 in the declaration, I responded to the  
21 alleged meeting of those limitations and  
22 argued why I disagreed with their expert's  
23 opinion that in fact this is not checked in  
24 those cases.

25 BY MR. BORDER:

1           Q.       So you agree with me that you don't  
2 have your own opinion as to when the connection  
3 request occurs in Aventail?

4           MR. ZEILBERGER:   Objection; form.  
5 Foundation.

6           THE WITNESS:   My opinion is based on  
7 what is stated in Aventail Connect. They  
8 are separate steps. So maybe I just don't  
9 understand your question.

10 BY MR. BORDER:

11          Q.       My question is: Do you, in your  
12 opinion, believe that the connection request in  
13 Aventail occurs after the redirection rules are  
14 checked?

15          MR. ZEILBERGER:   Objection to form.

16 BY MR. BORDER:

17          Q.       Is there something you don't  
18 understand about that question?

19          A.       I thought I've answered your question.  
20 I said given the interpretation of what's  
21 specified by Aventail Connect, that step 2, this  
22 connection request happens after step 1.

23          Q.       And step 1 includes checking the  
24 redirection rules?

25          A.       That is correct.

1 Q. And that's your opinion?

2 A. That is correct.

3 Q. Okay. Now, when you stated that  
4 you -- Well, let's go back to Paragraph 30. When  
5 you stated that you were responding to what  
6 Dr. Tamassia points to as the connection request  
7 in box G, do you agree that you're relying solely  
8 on Dr. Tamassia's deposition testimony for that  
9 opinion?

10 MR. ZEILBERGER: Objection; form.

11 THE WITNESS: So back to Paragraph 30,  
12 you said?

13 BY MR. BORDER:

14 Q. Yes.

15 A. So in Paragraph 30 and 31, Apple's --  
16 Dr. Tamassia gave a clarification of where this  
17 step -- what is meant by -- what his  
18 understanding of what is meant by the connection  
19 request. I did an analysis based on what  
20 Dr. Tamassia points to and, as explained in the  
21 declaration, that logic, in my opinion, is flawed  
22 because the redirection rules are not checked at  
23 that point.

24 Q. And in Paragraphs 30 and 31 you don't  
25 cite to any portion of Dr. Tamassia's

1 declaration, correct?

2 A. In Paragraph 30, I do refer to his  
3 depo and the statements made about box G.

4 Q. Okay. Let me repeat that question.

5 In Paragraphs 30 and 31, you don't  
6 cite to any portion of Dr. Tamassia's  
7 declaration, correct?

8 A. His declaration, that is correct.

9 Q. And the only testimony you rely on are  
10 two lines on page 234 of his deposition, correct?

11 MR. ZEILBERGER: Objection; form.

12 THE WITNESS: His deposition, in my  
13 opinion, was clarifying statements made in  
14 his declaration. So the fact that I  
15 looked -- reviewed his deposition to see how  
16 he's clarifying the declaration means I'm  
17 relying on more than just his deposition.

18 BY MR. BORDER:

19 Q. Well, Dr. Monroe, I don't think  
20 there's any page limits on your declaration, and  
21 I don't see any citations to his declaration  
22 here, correct?

23 MR. ZEILBERGER: Objection.

24 BY MR. BORDER:

25 Q. I think you answered that before.

1                   MR. ZEILBERGER: Objection;  
2                   argumentative.

3       BY MR. BORDER:

4           Q.       Let me just ask a question.

5           A.       You guys -- Again, I'm not a lawyer.  
6       I put this on the table. I'm not a lawyer. My  
7       understanding of how this works is the petitioner  
8       makes an alleged -- shows where they believe the  
9       limitations are met. An expert in certain cases  
10      provides his or her opinion in respect to that  
11      limitation that the petitioner points out.

12                   In this particular case, Dr. Tamassia  
13      clarified a statement or his understanding of  
14      statements made in the declaration, and I  
15      reviewed those statements. And under that  
16      understanding -- what he points to in his  
17      deposition, which I will agree with you in my  
18      declaration, I don't specifically cite to his  
19      declaration but I do cite to his deposition which  
20      clarifies statements made in his declaration and  
21      says he's referring to box G.

22           Q.       And in your view, the entire basis of  
23      your opinion is based on just two lines of  
24      Dr. Tamassia's deposition?

25                   MR. ZEILBERGER: Objection;

1 foundation. Form.

2 BY MR. BORDER:

3 Q. Correct?

4 A. I think that's a stretch. I think  
5 it's the context of what was -- He specifically  
6 points to that in those two lines, but the  
7 surrounding context points to his understanding  
8 of what the connection request is, and he says  
9 that's indicated by box G.

10 Q. But you don't cite to any of this  
11 additional context that you just mentioned,  
12 correct?

13 A. Again, maybe if I had more experience  
14 in this and realized that lawyers would -- I had  
15 to say exactly where it matches his  
16 declaration -- I just said looking at what he  
17 said in his deposition, and what he points to in  
18 that deposition, my understanding of what he said  
19 there implies that box G is the connection  
20 request. And in that case, the redirection rules  
21 are not checked.

22 Q. Did you review the entirety of  
23 Dr. Tamassia's deposition?

24 A. I went through looking for the places  
25 in which he was trying to justify what he said



1 here. So not with a fine-tooth comb. I didn't  
2 go through all the pages in here. I went  
3 through, I looked, and I tried to understand the  
4 context in which he made those statements.

5 Q. So to be clear, you did not review the  
6 entire deposition transcript of Dr. Tamassia?

7 A. I read the transcript to try and  
8 understand what was being said here. And I'm  
9 sure if -- and it's a painful exercise reading  
10 these transcripts because this thing jumps all  
11 over and so I had to focus it. At one point he  
12 was asked where is the connection request. And  
13 that's the point where he says that, the way he  
14 says that's the connection request.

15 I don't know how you guys do it as  
16 lawyers, but it's difficult to keep track of  
17 everything that's going on here. So I had to  
18 review it, and then I looked at the portion in  
19 which he says this is where I believe the  
20 connection request is.

21 Q. Do you agree that he at least  
22 discusses this issue in other parts of his  
23 deposition?

24 MR. ZEILBERGER: Objection; form.

25 Foundation.

1           THE WITNESS: To be honest, I would  
2           have to go back and look specifically.

3       BY MR. BORDER:

4           Q.     And of course you don't cite to any of  
5           the other portions of his testimony where he  
6           discusses what his view is as to the connection  
7           request?

8           MR. ZEILBERGER: Objection.

9       BY MR. BORDER:

10          Q.     In Aventail, correct?

11          MR. ZEILBERGER: Objection; form.

12          THE WITNESS: I believe here, in my  
13          view, I turn to what I felt was the clearest  
14          statement of what box G was referring to.

15       BY MR. BORDER:

16          Q.     And you obviously have no other  
17          testimony -- Strike that.

18                 And you obviously have no testimony as  
19          to the other testimony that Dr. Tamassia gave  
20          with respect to box G and the connection request  
21          in Aventail, correct?

22          MR. ZEILBERGER: Objection; form.

23          THE WITNESS: The only statements I've  
24          made in my declaration with respect to his  
25          deposition on this particular matter is

1           referenced in Paragraph 30.

2       BY MR. BORDER:

3           Q.     Did you review the entirety of  
4       Dr. Tamassia's declaration?

5           A.     I did.  It's very long.

6           Q.     How do you define "connection  
7       request"?

8                   MR. ZEILBERGER:  Objection; form.

9                   THE WITNESS:  Are you asking this in  
10       the abstract?  In something specific?  In  
11       deposition?

12       BY MR. BORDER:

13           Q.     I'm asking with respect to your bolded  
14       cite -- With respect to Paragraph 30, you've  
15       bolded "in the connection request."  What is your  
16       definition of "connection request"?

17           A.     In that bolded paragraph, it's what he  
18       says box G is the connection request.  His bolded  
19       is just that he specified the connection request  
20       is box G.  It's not my opinion, and I'm not  
21       saying anything else.  He specified box G is the  
22       connection request.

23           Q.     And if your opinion is wrong -- in  
24       other words, if he did not specify that box G is  
25       the connection request -- you agree that the

1 conclusions you've reached, at least with respect  
2 to Paragraphs 30, 31, 32 and 33 are not valid,  
3 correct?

4 MR. ZEILBERGER: Objection; form.

5 THE WITNESS: You asked a very  
6 compound question. Can you repeat, please?

7 BY MR. BORDER:

8 Q. Well, you just told me that your  
9 analysis here is based on what you think  
10 Dr. Tamassia has testified to. Correct?

11 A. In Paragraph 30, I'm referring to what  
12 he points out in his declaration -- in his  
13 deposition to be connection request via box G.

14 Q. So if there are other portions of his  
15 testimony where he elaborates on what he believes  
16 that connection request is, and that it is not  
17 solely confined to box G, you agree that your  
18 analysis here is incorrect?

19 MR. ZEILBERGER: Objection; form.

20 THE WITNESS: I do not. Because I  
21 would have to look at all the other claimed  
22 analysis that he also pointed to something  
23 else as the connection request. I looked at  
24 what he claimed is the connection request  
25 there in box G.

1           And I believe that my duty is to  
2           assess his opinion, and I did, and, one, I  
3           respectfully disagree with what it said, and  
4           more specifically for box G pointed to that  
5           part of the deposition. It's clear that the  
6           redirection rules are not checked. I can't  
7           say more than that.

8 BY MR. BORDER:

9           Q.       So I'm handing you what is previously  
10          marked Exhibit 2013 in the 811 proceeding. I'm  
11          sure you recognize that.

12                 And I'm looking at step 1 here. It  
13          states: "The application does a DNS lookup to  
14          convert the host name to an IP address."

15                 Do you agree that at least in one  
16          example, that host name would come from a user  
17          attempting to communicate with a remote host?

18                 MR. ZEILBERGER: Objection; form.

19                 THE WITNESS: So step 1 says the  
20          application does a DNS lookup. And remember  
21          that in Aventail, the application -- I mean  
22          Aventail Connect does a DNS lookup to  
23          convert the host name to an IP address.

24 BY MR. BORDER:

25           Q.       So in your view, the application

1 that's mentioned there is Aventail Connect?

2 A. This says, "How does Aventail Connect  
3 work?"

4 Q. In your view, in step 1, when it says  
5 "the application," that's referring to Aventail  
6 Connect and not other software on the computer?

7 MR. ZEILBERGER: Objection; form.

8 THE WITNESS: As stated in my  
9 declaration, Aventail Connect is simply an  
10 administration guide for configuring  
11 Aventail Connect, which is an application  
12 designed to run on a workstation and which  
13 routes traffic, network traffic from an  
14 application to a proxy server.

15 BY MR. BORDER:

16 Q. Okay. My question is: When it states  
17 "the application" in step 1 on the first page of  
18 Exhibit 2013 that I just handed you, you believe  
19 that's Aventail Connect?

20 A. The administration guide says Aventail  
21 Connect is an application designed to run on a  
22 workstation.

23 Q. Is that a yes?

24 MR. ZEILBERGER: Objection; form.

25 THE WITNESS: It's an application

1           designed to run on a workstation.

2       BY MR. BORDER:

3           Q.       The specific reference to "the  
4       application" in step 1 on page 11 of -- or page 1  
5       of Exhibit 2013, "the application," in your view,  
6       refers to Aventail Connect and not any other  
7       software running on the client computer? That's  
8       your view?

9           MR. ZEILBERGER: Objection; form.

10          THE WITNESS: In my declaration, to  
11       the best of my recollection, I did not opine  
12       on that matter and said what Aventail  
13       discloses, and it is a guide for configuring  
14       Aventail Connect, which the guide says it's  
15       an application designed to run on a  
16       workstation.

17       BY MR. BORDER:

18          Q.       So you don't know one way or the other  
19       what "the application" actually refers to in step  
20       1 in Exhibit 2013?

21          A.       It says it's Aventail Connect. How  
22       does Aventail Connect work? It's an  
23       application designed to run -- Aventail Connect  
24       is an application designed to run on a  
25       workstation.

1           Q.     The host name that's mentioned in that  
2 first step, you agree that would come from a  
3 user?

4           A.     So the broader context of what the  
5 Exhibit 2013 -- so if I go back to page 7 on  
6 Exhibit 109, Aventail Connect is a client  
7 component of the Aventail intranet center.

8                     Your question about in the proceedings  
9 at hand, I don't recall any discussion --  
10 opinions on my part on whether or not there was a  
11 user there.

12          Q.     Well, so now we're talking about  
13 Exhibit 1009.

14          A.     Yes.

15          Q.     So let me hand this to your counsel.  
16 This is the full Aventail Connect document. This  
17 is Exhibit 1009 in the 811 proceeding.

18                     You've got a copy, correct?

19          A.     Yes.

20          Q.     Let me have you go to the top of  
21 page 8, please. It says: "Windows TCP/IP  
22 networking applications such as Telnet, e-mail,  
23 web browsers and FTP use Winsock (Windows  
24 sockets) to gain access to networks or the  
25 Internet."



1           You agree that these networking  
2 applications, could that be what Aventail is  
3 referring to when it says, "The application does  
4 a DNS lookup to convert the host name to an IP  
5 address," in step 1 of Exhibit 1009?

6           MR. ZEILBERGER: Objection; form.  
7 Foundation.

8 BY MR. BORDER:

9           Q.     Could that be the application that  
10 it's referring to?

11          MR. ZEILBERGER: Same objections.

12          THE WITNESS: I've done no analysis of  
13 whether or not the TCP/IP-enabled network  
14 applications pointed to here, e-mail or web  
15 browsers, are the same applications referred  
16 to in step 1.

17 BY MR. BORDER:

18          Q.     Did you read Exhibit 1009?

19          A.     I had to go through Exhibit 1009.

20          Q.     Did you read the entirety of 1009?

21          A.     I had to go through the parts which  
22 the petition was pointing to met the alleged  
23 limitations.

24          Q.     Do you believe you have an  
25 understanding of how the system described in

1     Aventail works?

2             A.     I do.   It's an admin guide.

3             Q.     So do you agree that Aventail Connect  
4     works with Windows TCP/IP applications?

5             MR. ZEILBERGER:   Objection; form.

6             THE WITNESS:   It says it can work with  
7     TCP or UDP.

8     BY MR. BORDER:

9             Q.     And one of those applications would be  
10    a browser, for example?

11            MR. ZEILBERGER:   Objection; form.

12            Scope.

13            THE WITNESS:   I mean, hypothetically  
14    speaking, it -- I don't know the context in  
15    which you're asking me this, so I need  
16    context.   But it does say, as in the guide,  
17    the TCP networking applications, and it  
18    gives examples.   Your example is a web  
19    browser, and a web browser is listed here.

20    BY MR. BORDER:

21            Q.     And so at least one of the places that  
22    Aventail Connect -- at least in the steps -- Let  
23    me strike that.

24            Let's stay on Exhibit 1009, page 11,  
25    and it says:   "The application does a DNS lookup

1 to convert the host name to an IP address."

2 Could one example of that host name  
3 come from a user entering a host name into a  
4 browser?

5 MR. ZEILBERGER: Objection; form.

6 Scope.

7 THE WITNESS: So again, to the best of  
8 my recollection, that specific example that  
9 you point to, the administration guide does  
10 not provide that example.

11 BY MR. BORDER:

12 Q. Dr. Monroe, you're holding yourself  
13 out to be a person of ordinary skill in the art,  
14 correct?

15 A. Uh-huh.

16 Q. And you read the entirety of this  
17 administrator's guide?

18 A. I read the guide.

19 Q. And you understand how the system  
20 works.

21 A. I do. And you said there's a web  
22 browser, and I'm saying I didn't give an opinion  
23 on whether or not there is a user -- it says  
24 there's a user sitting at the web browser and  
25 that's the same application mentioned in 1A.

1           Q.       So you have no idea where the host  
2 name mentioned in step 1A could come from?

3                   MR. ZEILBERGER:  Objection; form.

4                   THE WITNESS:  There are possibilities.

5 BY MR. BORDER:

6           Q.       What possibilities?

7           A.       It says there it converts the host  
8 name.

9           Q.       Where does the host name come from?

10                   MR. ZEILBERGER:  Objection; form.

11                   THE WITNESS:  Aventail says it will  
12 connect its -- Aventail Connect is a client  
13 component.  So it receives it from the  
14 client.

15 BY MR. BORDER:

16           Q.       In this case, what is the client?

17                   MR. ZEILBERGER:  Objection; form.

18                   Scope.

19 BY MR. BORDER:

20           Q.       Let me ask this:  Do you agree that  
21 one place it could receive it from is a regular  
22 browser?

23                   MR. ZEILBERGER:  Objection; form.

24                   Scope.

25                   THE WITNESS:  Hypothetically, without

1           any other context, yeah, it could be a  
2           browser.

3       BY MR. BORDER:

4           Q.       Now, if a user were to enter a host  
5       name into a browser, would you call that a  
6       connection request?

7                   MR. ZEILBERGER:  Objection; form.  
8       Scope.

9                   THE WITNESS:  I made no statements  
10       about what a connection request is.  I  
11       pointed to what Dr. Tamassia and the  
12       petition said is the connection request and  
13       I outlined there are several steps in  
14       Aventail.  The first being a DNS lookup to  
15       convert the host name.  We went through  
16       that.  And the second being the application  
17       requests a connection.  Two different steps.

18       BY MR. BORDER:

19           Q.       So you haven't formed your own opinion  
20       as to what a connection request is in Aventail?

21                   MR. ZEILBERGER:  Objection; form.

22       BY MR. BORDER:

23           Q.       Correct?

24                   MR. ZEILBERGER:  Same objection.

25                   THE WITNESS:  My opinion is that step

1           1 and step 2 are two different steps. It  
2           says so on page 11 and 12.

3       BY MR. BORDER:

4           Q.     I did not ask you whether step 1 and  
5           step 2 are different requests. I asked you: You  
6           have not formed your own opinion as to what a  
7           connection request is in Aventail, correct?

8           MR. ZEILBERGER: Objection; form.

9           THE WITNESS: So my analysis in the  
10          declaration only states that what is pointed  
11          to by the petitioner as a connection  
12          request, and whether that connection -- that  
13          alleged connection request can satisfy the  
14          limitations, in my view they do not. That's  
15          all I said.

16       BY MR. BORDER:

17          Q.     Now, a second ago you said that your  
18          opinion is that step 1 and step 2 are two  
19          different steps. Would you characterize step 1  
20          at least as a domain name conversion request?

21          MR. ZEILBERGER: Objection; form.

22          Foundation.

23          THE WITNESS: I don't know what you  
24          mean by "domain name conversion request"  
25          specifically other than it says step 1 does

1           a DNS lookup to convert the host name to an  
2           IP address.

3   BY MR. BORDER:

4           Q.     So you agree that is a request to  
5   convert a host name to an IP address?  You agree  
6   with that, correct?

7           MR. ZEILBERGER:  Objection; form.

8           THE WITNESS:  Again, maybe I don't  
9   understand your question.  But I'm not sure  
10   you're saying anything different or asking  
11   anything different than what's stated, that  
12   the application does a DNS lookup to convert  
13   the host name to an IP address.

14  BY MR. BORDER:

15          Q.     So you agree that the step 1 is  
16   responsive to a request to convert a host name to  
17   an IP address?

18          MR. ZEILBERGER:  Objection; form.

19          THE WITNESS:  I agree that step 1 says  
20   it does a DNS lookup to convert the host  
21   name to an IP address.

22  BY MR. BORDER:

23          Q.     And in your view that's just a  
24   spontaneous DNS lookup; it's not responsive to  
25   anything?

1 MR. ZEILBERGER: Objection; form.

2 Foundation.

3 THE WITNESS: What do you mean, it's  
4 spontaneous?

5 BY MR. BORDER:

6 Q. I'm asking you whether -- I'm asking  
7 you whether the application does a DNS lookup to  
8 convert the host name to an IP address, whether  
9 in your opinion that would be responsive to a  
10 request to convert the host name to an IP  
11 address.

12 MR. ZEILBERGER: Objection; form.

13 THE WITNESS: From where?

14 BY MR. BORDER:

15 Q. From the application.

16 MR. ZEILBERGER: Same objection.

17 THE WITNESS: It is doing a lookup to  
18 convert that host name to an IP address.

19 BY MR. BORDER:

20 Q. And why would it be doing that?

21 MR. ZEILBERGER: Objection; form.  
22 Scope.

23 THE WITNESS: As you said, there --  
24 I'm not going to sit here and guess all the  
25 reasons why --



1 BY MR. BORDER:

2 Q. Would you agree that one example would  
3 be it's responding from a request to convert the  
4 host name to an IP address? That's at least one  
5 example of why it would be doing that?

6 MR. ZEILBERGER: Objection; form.

7 Scope.

8 THE WITNESS: Aventail doesn't  
9 disclose that as a specific example, but I  
10 would agree it's a possibility.

11 BY MR. BORDER:

12 Q. Okay. Sticking with --

13 MR. BORDER: This is a good spot.

14 (Recess taken.)

15 BY MR. BORDER:

16 Q. Let's stick with Exhibit 1009.  
17 Actually, strike that.

18 Let's go back to your declaration, the  
19 811 declaration. So let's go back to  
20 Paragraph 30 in your 811 declaration. And let me  
21 just say this. If you are mistaken about what  
22 Dr. Tamassia identifies as the connection request  
23 in Aventail, then do you agree your conclusions  
24 in Paragraphs 30 to 33 are incorrect?

25 MR. ZEILBERGER: Objection to form.

1           THE WITNESS: So I think we went over  
2           this before. As I said in responding to  
3           Dr. Tamassia's indication of what this  
4           connection request is in box G, that's what  
5           my analysis here refers to. And I'm not  
6           making any statements beyond that about any  
7           additional conclusions.

8       BY MR. BORDER:

9           Q.       So then you agree that if you are  
10          mistaken about what Dr. Tamassia identified, then  
11          your analysis in Paragraphs 30 to 33 are not  
12          valid, correct?

13          MR. ZEILBERGER: Objection; form.

14          THE WITNESS: I agree that all I'm  
15          saying here is that what's pointed to by  
16          Dr. Tamassia has a flaw in the logic with  
17          respect to when the connection -- the  
18          redirection rules are checked.

19          Again, I am making no broader  
20          statement here.

21       BY MR. BORDER:

22          Q.       And if you are mistaken as to what you  
23          believe he has pointed to as the connection  
24          request, do you agree your conclusions in  
25          Paragraphs 30 to 33 are incorrect?

1 MR. ZEILBERGER: Objection; form.

2 THE WITNESS: No, I do not.

3 BY MR. BORDER:

4 Q. Well, your analysis in Paragraph 30 is  
5 based on the assumption that Dr. Tamassia  
6 identifies the connection request in -- excuse  
7 me, the request in box G as the connection  
8 request, correct?

9 A. Correct.

10 Q. And you have no analysis as to any  
11 other boxes that Dr. Tamassia has identified as a  
12 connection request, correct?

13 A. In my declaration, I do not point to  
14 any others. But that doesn't mean that the  
15 conclusion would be invalid.

16 Q. But your conclusion is based on your  
17 view that Dr. Tamassia has only identified box G  
18 as the connection request, correct?

19 A. My view is based on him identifying  
20 box G as a connection request and a response to  
21 that indication.

22 Q. And if you are mistaken as to what he  
23 has identified as the connection request, do you  
24 agree that there is at least a flaw in your  
25 analysis in Paragraphs 30 to 33?

1           A.       So I think your proposition --

2                   MR. ZEILBERGER:  Objection; form.

3                   THE WITNESS:  Again, your proposition  
4           assumes that I'm mistaken.  I would have to  
5           go through, take my time to go back and look  
6           at your proposition that there is more  
7           identified by Dr. Tamassia.

8  BY MR. BORDER:

9           Q.       So you agree if Dr. Tamassia  
10          identified another step in Aventail as the  
11          connection request, that you would need to  
12          perform further analysis to determine whether  
13          your conclusions in Paragraphs 30 to 33 are  
14          accurate?

15                   MR. ZEILBERGER:  Objection; form.  
16          Foundation.  Scope.

17                   THE WITNESS:  So I would have to see  
18          whether or not these contradict what he  
19          points to as box G.  But under my  
20          understanding of what he indicates, then  
21          Paragraphs 30 and 31 hold.

22  BY MR. BORDER:

23           Q.       And you agree you have not done that  
24          additional analysis, correct?

25                   MR. ZEILBERGER:  Objection; form.

1                   THE WITNESS: I have not expressed  
2                   anything additional in my declaration on  
3                   that.

4       BY MR. BORDER:

5           Q.       All right. Let's go to -- We're  
6           sticking with Exhibit 1009. Can you please turn  
7           to page 10.

8           A.       Okay.

9           Q.       Just below the note at the top of the  
10          page, will you read that first sentence out loud,  
11          please, starting with "When..."

12          A.       "When the Aventail Connect LSP  
13          receives a connection request, it determines  
14          whether or not the connection needs to be  
15          redirected to an Aventail extranet server and/or  
16          encrypted NSSL."

17          Q.       So in this description in Aventail,  
18          the connection request occurs before any  
19          determination is made with regard to redirection  
20          rules, correct?

21                   MR. ZEILBERGER: Objection; form.  
22                   Scope.

23                   THE WITNESS: Can you repeat your  
24                   question?

25       BY MR. BORDER:

1 Q. I'll restate it.

2 In this description in Aventail on  
3 page 10, the connection request occurs before the  
4 redirection rules are checked, correct?

5 MR. ZEILBERGER: Same objections.

6 THE WITNESS: I would need to do an  
7 analysis. It doesn't say that here. I  
8 don't see -- it says when the Aventail  
9 Connect LSP receives a connection request,  
10 it determines whether or not the connection  
11 needs to be redirected or encrypted.

12 BY MR. BORDER:

13 Q. And in order to make that  
14 determination, it obviously would have had to  
15 have received the connection request first,  
16 correct?

17 MR. ZEILBERGER: Objection; form.

18 Scope.

19 THE WITNESS: So I'm reading what's  
20 said on page 10. I'm not going to guess  
21 there is any implied indication. It says  
22 that when the LSP receives a connection  
23 request, it determines whether or not the  
24 connection needs to be redirected.

25 BY MR. BORDER:

1 Q. And so you agree, at least in this  
2 description, a connection request is received  
3 prior to the redirection rules being checked?

4 MR. ZEILBERGER: Objection; form.  
5 Foundation. Scope.

6 THE WITNESS: Again, I can't say more  
7 than what is said in this example. Right?  
8 It says when Aventail Connect receives a  
9 connection request, in this case it  
10 determines whether or not the connection  
11 needs to be redirected.

12 BY MR. BORDER:

13 Q. You've considered this paragraph in  
14 drafting your declaration, correct?

15 A. I have to consider what's stated in  
16 the administration guide and specifically look at  
17 the arguments put forth in the petition.

18 Q. So why don't you turn to Paragraph 35  
19 of your declaration in the 811 proceeding. At  
20 the very bottom of that page --

21 A. One second, please.

22 Q. Are you there?

23 A. Uh-huh.

24 Q. So at the very bottom of page 27,  
25 Paragraph 35, you agree that you have quoted from

1 portions of the sentence we were just discussing,  
2 correct?

3 A. I agree with respect to whether or not  
4 a particular limitation was met.

5 Q. So you provided analysis on this  
6 particular sentence that we've been discussing,  
7 correct?

8 A. With respect to a particular  
9 limitation pointed to by the petitioner.

10 Q. Okay. So this isn't the first time  
11 you've seen this sentence on page 10?

12 A. That's correct.

13 Q. Okay. So I'm going to go back to my  
14 question.

15 A. Uh-huh.

16 Q. As a matter of grammar, do you agree  
17 that in this first sentence on page 10 that a  
18 connection request is received prior to  
19 redirection rules being checked?

20 MR. ZEILBERGER: Objection; form.

21 Foundation.

22 BY MR. BORDER:

23 Q. And just so it's clear, let me ask the  
24 question more simply. In this description of the  
25 Aventail system --



1           A.       On page 10.

2           Q.       On page 10. In this description of  
3 the Aventail system, the connection request is  
4 received before redirection rules are checked,  
5 correct?

6                   MR. ZEILBERGER: Objection; form.  
7 Foundation.

8                   THE WITNESS: So I agree with your  
9 statements regarding grammar, and what it  
10 says is that it receives a connection  
11 request, it determines whether or not the  
12 connection request needs to be redirected.

13 BY MR. BORDER:

14           Q.       So you agree that in order to make  
15 that determination, Aventail Connect would have  
16 received the connection request?

17                   MR. ZEILBERGER: Objection;  
18 foundation.

19                   THE WITNESS: The sentence says "When  
20 Aventail Connect receives a connection  
21 request..."

22 BY MR. BORDER:

23           Q.       So you agree that the receipt of the  
24 connection request comes before the  
25 determination, correct?

1 MR. ZEILBERGER: Same objection.

2 BY MR. BORDER:

3 Q. Do you agree that the receipt of the  
4 connection request by Aventail Connect occurs  
5 before the determination?

6 MR. ZEILBERGER: Objection; form.  
7 Foundation.

8 BY MR. BORDER:

9 Q. Let me state it a little bit more  
10 clearly. Do you agree that Aventail Connect  
11 receives a connection request before it  
12 determines whether or not the connection needs to  
13 be redirected? Do you agree with that?

14 MR. ZEILBERGER: Objection; form.  
15 Foundation.

16 THE WITNESS: Again, I'm reading what  
17 is stated in those -- in that sentence that  
18 you pointed me to, and I agree that the  
19 sentence says when the Aventail Connect LSP  
20 receives a connection, it determines whether  
21 or not the connection needs to be  
22 redirected.

23 BY MR. BORDER:

24 Q. Dr. Monroe, I'm not asking you to  
25 read the sentence to me. I'm asking, in your

1 expert opinion do you agree that Aventail Connect  
2 receives a connection request, it then determines  
3 whether or not the connection needs to be  
4 redirected? Do you agree with that?

5 MR. ZEILBERGER: Objection; form.  
6 Foundation.

7 THE WITNESS: I would have to do an  
8 analysis of whether that sentence is in  
9 keeping with the entire context of what  
10 Aventail discloses.

11 BY MR. BORDER:

12 Q. Limiting your context to what is  
13 stated on page 10, when Aventail Connect receives  
14 a connection request, it then determines whether  
15 or not it needs to be directed. At least that's  
16 how it's explained on page 10. Do you agree with  
17 that?

18 MR. ZEILBERGER: Objection; form.  
19 Foundation. Scope.

20 THE WITNESS: Again, you were asking  
21 me -- If I understand what you're asking,  
22 it's that I need to take the limited context  
23 of that sentence and whether or not it  
24 specifies that when the connection -- when  
25 Aventail receives a connection request, it

1 determines whether or not the connection  
2 needs to be redirected. And I'm saying in  
3 that limited context, that's what the  
4 sentence says.

5 BY MR. BORDER:

6 Q. And by that, you mean the sentence  
7 says a connection request is received by Aventail  
8 Connect prior to determining whether or not the  
9 connection needs to be redirected, correct?

10 MR. ZEILBERGER: Objection; form.  
11 Foundation.

12 THE WITNESS: There's no indication of  
13 it -- explicit as it's prior. It just says  
14 when it receives it, it determines whether  
15 or not the connection needs to be  
16 redirected.

17 BY MR. BORDER:

18 Q. We've already covered the fact that  
19 you analyzed this page in your declaration.

20 A. For a different limitation.

21 Q. You analyzed this page in your  
22 declaration, correct?

23 A. I pointed to this page in the  
24 declaration for a different limitation.

25 Q. In fact, you pointed to the specific

1 sentence in your declaration, correct?

2 A. The sentence in -- The paragraph in  
3 which this sentence appears, correct.

4 Q. And I'm not asking you any questions  
5 about limitations right now. Correct?

6 A. Correct.

7 Q. All I'm asking you is, as an expert,  
8 do you agree that this sentence states that the  
9 connection request is received by Aventail  
10 Connect prior to determining whether or not the  
11 connection needs to be redirected?

12 MR. ZEILBERGER: Objection; form.

13 THE WITNESS: And I agree that in this  
14 limited context that it receives a  
15 connection request and determines whether or  
16 not it needs to be redirected.

17 BY MR. BORDER:

18 Q. And you're not aware of any -- Strike  
19 that.

20 You're not aware that Aventail Connect  
21 is describing a different system on page 10, are  
22 you?

23 MR. ZEILBERGER: Objection; form.

24 Scope.

25 THE WITNESS: Can you be more

1 explicit? What do you mean by "describing a  
2 different system"?

3 BY MR. BORDER:

4 Q. Well, you just said in this limited  
5 context. I'm asking, what limited context are  
6 you speaking of?

7 A. Well, I have to take what's said here  
8 and look at the rest of the specification --  
9 well, the rest of what is stated in the admin  
10 guide.

11 Q. Dr. Monroe, you've already analyzed  
12 this sentence. It's in your declaration.

13 A. For a different context.

14 Q. I'm not asking any context. I'm  
15 asking you to explain what that sentence means.

16 MR. ZEILBERGER: Objection.

17 BY MR. BORDER:

18 Q. And you have no facts that suggest  
19 that this is describing a different system than  
20 what's described on pages 11 and 12, correct?

21 MR. ZEILBERGER: Objection; form.  
22 Scope.

23 THE WITNESS: Sitting here right now,  
24 I can't answer that question. I have to go  
25 back and look with respect to your specific

1 question on whether it's something  
2 different.

3 BY MR. BORDER:

4 Q. So you agree that you have no  
5 evidence, sitting here today, that suggests this  
6 is describing a system that's different than the  
7 system described on pages 11 and 12?

8 MR. ZEILBERGER: Objection; form.  
9 Scope.

10 THE WITNESS: What I'm saying is under  
11 the conditions right now in this stressful  
12 environment, I will have to go back and see  
13 whether or not I'll be better able to answer  
14 your question.

15 BY MR. BORDER:

16 Q. That wasn't my question. My question  
17 is: Sitting here right now under this stressful  
18 situation, you have no evidence that is  
19 describing a different system than what is  
20 described on pages 11 and 12, correct?

21 MR. ZEILBERGER: Objection; form.  
22 Foundation. Scope.

23 THE WITNESS: For the matters at hand,  
24 I have not made any declaration thereof that  
25 this is the same or a different system.

1           That's all I can tell you right now.

2       BY MR. BORDER:

3           Q.     You don't know one way or the other?

4           MR. ZEILBERGER:   Same objections.

5           THE WITNESS:   I said I have to go back  
6       and look.

7           MR. BORDER:   All right.   Let's shift  
8       gears.   This is going to be Exhibit 1001 and  
9       Exhibit 1003.

10      BY MR. BORDER:

11           Q.     These are the patents, the '705 and  
12      the '009 patents.

13                   Let's open up the '705 patent.   So  
14      let's take a look at both of these actually.

15                   As far as you're aware, certainly  
16      other than the claims, there are no substantive  
17      differences between these two patents, correct?

18                   MR. ZEILBERGER:   Objection; form.  
19      Scope.

20      BY MR. BORDER:

21           Q.     I'm just trying to save some time.

22           A.     Yeah.   They're in the same family.   I  
23      would have to go back and look specifically are  
24      there any embodiments in one and not the other.  
25      But the claims are certainly different.



1 Q. Certainly none of your opinions rely  
2 on any differences in the specification of these  
3 two patents, correct?

4 A. For the declarations at hand today,  
5 that is correct.

6 Q. Okay.

7 A. As far as I recall.

8 Q. And as far as you're aware, you've  
9 submitted declarations in other proceedings  
10 involving this family of patents, correct?

11 A. I have.

12 Q. And in those, you're not aware or you  
13 didn't rely on any differences in the  
14 specifications in those either?

15 MR. ZEILBERGER: Objection; scope.

16 THE WITNESS: I don't believe that's  
17 the case, but your statement is correct. I  
18 would have to go back and look at all these.

19 BY MR. BORDER:

20 Q. Right.

21 So the claims are different.

22 A. Uh-huh.

23 Q. As far as you know, the specifications  
24 are substantially the same?

25 A. There are some differences across

1       them.

2               Q.       Right.

3                       So can we, at least for today's  
4 proceeding, can we just discuss the '705?

5               A.       Uh-huh.

6               Q.       And can we take your testimony to  
7 apply to the '009, at least with regard to the  
8 specifications? I'm not talking about the claims  
9 here. In other words, so we don't have to go  
10 through the same exercise twice.

11                      Now, if there is anything you want to  
12 point out that might be different between '705  
13 and '009 as we go through, please open it up and  
14 let me know.

15               A.       I would have to go back and look.

16               Q.       Right. It's my intention to cover  
17 things that are identical in both of these  
18 patents.

19                      So let's look at Figure 26 of the '705  
20 patent. That's page 66.

21                      So this is a high level figure of at  
22 least one of the embodiments disclosed in the  
23 '705 patent, correct?

24                      MR. ZEILBERGER: Objection; form.

25                      THE WITNESS: Figure 26 is an example

1 of a high level embodiment.

2 BY MR. BORDER:

3 Q. So let's go to I believe it's  
4 Column 39, line 58. I think that's where it  
5 begins discussing Figure 26. And it may be  
6 helpful to keep Figure 26 handy as we step  
7 through. Let me know when you're there.

8 A. Okay.

9 Q. So let's step through some of these  
10 items here. DNS 2602 in Figure 26 is a modified  
11 DNS server, correct? And if it helps, I can  
12 direct you to lines 62 to 64.

13 A. I'm reading. I would have to go back  
14 and look at the context of all this. Yes, 2606  
15 includes a conventional DNS server function and a  
16 DNS proxy.

17 Q. So modified DNS server includes, I  
18 believe as you just stated, two components, 2609,  
19 the DNS server, and 2610, a DNS proxy?

20 MR. ZEILBERGER: Objection.

21 BY MR. BORDER:

22 Q. Correct?

23 MR. ZEILBERGER: Scope.

24 THE WITNESS: The paragraph points to  
25 two functionalities.

1 BY MR. BORDER:

2 Q. Okay. And moving to Column 40,  
3 lines 38 to 40, do you agree -- You agree that  
4 the DNS proxy 2609 and DNS 2610 can be combined  
5 into a single server, correct?

6 MR. ZEILBERGER: Objection;  
7 foundation.

8 THE WITNESS: What are you referring  
9 to? Excuse me. Sorry.

10 BY MR. BORDER:

11 Q. Column 40, lines 38 to 40.

12 A. It says it can be for convenience run  
13 on a single server.

14 Q. Okay. And moving to the top of  
15 Column 40, you could please read into the record  
16 the first sentence.

17 A. Paragraph 40?

18 Q. Column 40.

19 A. Sorry, Column 40, line 1.

20 Q. Yes, please.

21 A. "According to one embodiment, DNS  
22 proxy 2610 intercepts all DNS lookup functions  
23 from client 2605 and determines whether access to  
24 a secure site has been requested."

25 Q. So you agree in at least this

1     embodiment that the DNS proxy intercepts all DNS  
2     lookup functions from the client, correct?

3                 MR. ZEILBERGER:  Objection; form.  
4     Scope.

5                 THE WITNESS:  Line 1 says the DNS  
6     proxy intercepts all DNS lookup functions  
7     from the client.

8     BY MR. BORDER:

9                 Q.     And real quick, your counsel gave a  
10    scope objection.  Have you reviewed this portion  
11    of the '705 patent?

12                A.     For these proceedings, I don't recall  
13    offhand.  I would have to go back.

14                Q.     Why don't we give you your 810  
15    declaration.

16                A.     Sure.

17                Q.     Or maybe you already have it.  So let  
18    me give this to your counsel here.

19                       Let's go to Paragraph 19 in your 810  
20    declaration.  And so if you turn to Paragraph 19,  
21    you see sort of about halfway through that  
22    paragraph you're talking about embodiments in the  
23    '705 patent, and you include cites to Column 40.  
24    Correct?

25                 MR. ZEILBERGER:  Objection; form.

1           THE WITNESS: The citations are with  
2           respect to direct communications.

3       BY MR. BORDER:

4           Q.     Okay. And you cite to Figure 26; is  
5           that correct? The very bottom of Paragraph 19.

6           A.     That's correct.

7           Q.     And the description of Figure 26 in  
8           the '705 patent spans from Column 39, line 58, to  
9           Column 40, line 43. Do you agree with that?

10          A.     So Figure 26 is referenced in  
11          Column 39 and the discussion continues, though  
12          I'll have to double-check whether this is the  
13          only place that this Figure 26 is referred to.

14          Q.     Okay. But it's at least described in  
15          those --

16          A.     39 and 40.

17          Q.     So let's go back to the top of  
18          Column 40. And I think you agreed with me that  
19          as described here in line 1 of Column 40, the DNS  
20          proxy intercepts all DNS lookup functions from  
21          the client. Correct?

22                 MR. ZEILBERGER: Objection;  
23                 foundation.

24                 THE WITNESS: I agree that the  
25                 statement says -- this particular statement

1           says the DNS proxy intercepts all DNS  
2           functions from the client.

3       BY MR. BORDER:

4           Q.       So at least in this embodiment, that's  
5           the way the system is designed, correct?

6                   MR. ZEILBERGER:  Objection; form.

7       BY MR. BORDER:

8           Q.       In other words, in this embodiment,  
9           the system that's described is designed so that  
10          the DNS proxy intercepts all DNS requests,  
11          correct?

12          A.       In line 1 of Column 40, the DNS proxy  
13          does -- it says that in that embodiment the DNS  
14          proxy intercepts all DNS lookup functions from  
15          the client.

16          Q.       Right.  And so in other words, this  
17          system is designed to intercept all DNS lookup  
18          functions, correct?

19                   MR. ZEILBERGER:  Objection.

20                   THE WITNESS:  As stated in that line.

21       BY MR. BORDER:

22          Q.       Okay.  And this passage goes on to  
23          state that after it intercepts a request, DNS  
24          proxy 2610 determines whether access to a secure  
25          site has been requested, correct?

1 MR. ZEILBERGER: Objection; form.

2 THE WITNESS: The continuation of that  
3 sentence says that.

4 BY MR. BORDER:

5 Q. And you would agree that determining  
6 whether access to a secure site has been  
7 requested is an evaluation related to  
8 establishing a secure connection? Correct?

9 A. I'm not sure I understand your  
10 question.

11 Q. What don't you understand?

12 A. Whether it's an evaluation.

13 Q. What do you understand evaluation to  
14 be?

15 A. I don't know -- you know, are you  
16 speaking specific to what '8705 says, some  
17 limitations, or just generally?

18 Q. I'm speaking about what's disclosed in  
19 the '705 patent. I'm asking whether you would  
20 agree that determining access to a secure site  
21 has been requested is an evaluation related to  
22 setting up a secure connection.

23 MR. ZEILBERGER: Objection; form.

24 THE WITNESS: I just want to be  
25 specific about what you're asking, because



1 to me it sounds like you're asking something  
2 about a claim term with respect to  
3 performing an evaluation as it relates to  
4 establishing a connection. So this is  
5 coming out of something that's not in my  
6 declaration. I'm just trying to get a sense  
7 of what we're talking about.

8 BY MR. BORDER:

9 Q. Okay. Well, let's turn to  
10 Paragraph 24 of your 810 declaration and your  
11 alternative proposed construction of  
12 "intercepting."

13 A. So, I'm sorry, where did you jump to?

14 Q. This is page 16, it's Paragraph 24 of  
15 the 810. And at the top left you see you've  
16 proposed an alternative construction for  
17 "intercepting," and in it you use the term  
18 "evaluation."

19 MR. ZEILBERGER: Objection; form.  
20 Foundation. Scope.

21 THE WITNESS: So again, what you're  
22 pointing to is the VirnetX proposed  
23 construction which does reference for  
24 intercepting. That means a request to look  
25 up an Internet protocol address and apart

1 from resolving it, and to perform an  
2 address, perform an evaluation on it related  
3 to establishing an encrypted communications  
4 channel.

5 And in the past I have looked at that  
6 proposed construction and believe it's --  
7 it's my opinion that it's in keeping with  
8 the specifications and the claim language.

9 BY MR. BORDER:

10 Q. Okay. With that in mind, do you agree  
11 that determining whether access to a secure site  
12 has been requested is an evaluation related to  
13 establishing a secure connection?

14 MR. ZEILBERGER: Objection; form.

15 THE WITNESS: So part of that  
16 determining step is performing an  
17 evaluation.

18 BY MR. BORDER:

19 Q. Part of the determination of whether  
20 access to a secure site is being requested is an  
21 evaluation. Is that what you said?

22 MR. ZEILBERGER: Objection; form.

23 BY MR. BORDER:

24 Q. I'm just trying to clarify what your  
25 answer was.

1           A.       I said with respect to the  
2       construction you pointed to on intercepting, part  
3       of it is performing an evaluation on it related  
4       to establishing the encrypted communication  
5       channel.

6           Q.       Okay. So with respect to the '705  
7       patent, would you agree that determining whether  
8       access to a secure site has been requested is an  
9       evaluation related to establishing an encrypted  
10      communications channel?

11                   MR. ZEILBERGER: Objection; form.

12                   THE WITNESS: In your question, what's  
13      the form of that access?

14      BY MR. BORDER:

15           Q.       I'm referring to Column 40, lines 3 to  
16      7. So with respect to those lines, would you  
17      agree that determining whether access to a secure  
18      site has been requested is an evaluation related  
19      to establishing a secure channel?

20                   MR. ZEILBERGER: Objection; scope.

21                   THE WITNESS: So I have not given an  
22      opinion on whether or not, to the best of my  
23      recollection, that in just -- only  
24      determining whether an access to a secure  
25      site has been requested, as you pointed to

1           in line 1, is enough to make that  
2           determination.

3       BY MR. BORDER:

4           Q.       So you've given the opinion that the  
5       intercepting step includes performing an  
6       evaluation related to establishing an encrypted  
7       communications channel?

8           A.       Uh-huh.

9                   MR. ZEILBERGER:  Objection;  
10       foundation.

11       BY MR. BORDER:

12           Q.       So what can you point me to in the  
13       '705 patent that is consistent with your  
14       construction?

15                   MR. ZEILBERGER:  Objection; form.

16                   THE WITNESS:  So I believe in past  
17       declarations I've gone through and have  
18       shown why that is substantiated.  You're  
19       asking me to sit here today and go through  
20       the whole thing and come back and tell you  
21       exactly why this opinion is there.

22       BY MR. BORDER:

23           Q.       So in order to understand what your  
24       opinion is, I would have to consult the  
25       declarations you have filed in related

1 proceedings?

2 MR. ZEILBERGER: Objection; form.

3 Scope.

4 THE WITNESS: As I said before, that  
5 construction, which I agreed with in  
6 previous declarations, I believe I also  
7 pointed to there are examples that  
8 substantiate that. If memory serves me  
9 correctly, some of these examples dealt with  
10 having sufficient security privileges to  
11 access the site. As one such example, the  
12 fact that they were not standard domain  
13 names, et cetera.

14 So I believe I've given evidence in  
15 the past that supports my opinion with  
16 respect to the construction that VirnetX has  
17 adopted.

18 BY MR. BORDER:

19 Q. Okay. So we would have to consult  
20 those prior declarations to grasp what you've  
21 stated before, correct?

22 MR. ZEILBERGER: Objection; form.

23 Scope.

24 BY MR. BORDER:

25 Q. In other words, you've laid out more

1 detail in those prior declarations, correct?

2 MR. ZEILBERGER: Objection; form.

3 BY MR. BORDER:

4 Q. On this issue?

5 MR. ZEILBERGER: Objection; form.

6 Foundation.

7 THE WITNESS: On that specific issue  
8 that you pointed me to, I believe I have  
9 opined on that before in the past, and those  
10 details that you're looking for are not in  
11 this specific dec at hand.

12 BY MR. BORDER:

13 Q. Okay. And you gave testimony on those  
14 declarations too?

15 MR. ZEILBERGER: Objection; form.

16 Foundation.

17 THE WITNESS: Sitting here right now,  
18 I can't tell you which ones. You said if I  
19 gave testimony on that. I don't remember  
20 which ones there were.

21 BY MR. BORDER:

22 Q. You were deposed on those prior  
23 declarations, correct?

24 MR. ZEILBERGER: Objection; scope.

25 THE WITNESS: I was. But which ones,

1 I would have to go back and look.

2 BY MR. BORDER:

3 Q. All right. So let's -- we've got a  
4 stopping point coming up in just a couple more  
5 questions.

6 So let's move on in this. It says --  
7 Do you agree that after the DNS proxy 2610  
8 evaluates the request --

9 A. Where are we reading? Where are you  
10 looking at?

11 Q. I'm asking a question based on this  
12 disclosure, but generally I'm -- Where is this?  
13 Generally, I'm looking at lines 14 to 19.

14 A. Of what?

15 Q. Of Column 40 of the '705 patent.

16 After the DNS proxy 2610 evaluates the  
17 request and determines that access to the site  
18 may be granted, DNS proxy 2610 returns an address  
19 to the client computer. Correct?

20 MR. ZEILBERGER: Objection; form.

21 Scope.

22 THE WITNESS: So what's your question?

23 You just read out what's in Column 40.

24 BY MR. BORDER:

25 Q. It's a little bit of a generalization.

1 So let me ask it again.

2 After the DNS proxy 2610 evaluates the  
3 request and determines that access to the site  
4 may be granted, DNS proxy 2610 returns an  
5 address. Correct?

6 MR. ZEILBERGER: Objection; form.  
7 Scope.

8 THE WITNESS: So the DNS proxy would  
9 transmit the message to the gatekeeper.  
10 That requests the virtual private network be  
11 created between the user computer and secure  
12 target, and thereafter at some point the DNS  
13 proxy returns to the user the result  
14 addressed.

15 BY MR. BORDER:

16 Q. And the address that's returned, that  
17 may not be the actual address of the destination  
18 computer, correct?

19 MR. ZEILBERGER: Objection; scope.

20 THE WITNESS: So in this embodiment  
21 that you point to, and I would have to go  
22 back and look at the entire context, it does  
23 say that the address could be different from  
24 the actual target computer.

25 BY MR. BORDER:



1           Q.       Obviously, it's got to be associated  
2 with the destination computer in some way,  
3 correct?

4                   MR. ZEILBERGER:  Objection; form.  
5           Scope.

6                   THE WITNESS:  In the context of '8705,  
7 it's associated with the target computer.

8                   MR. BORDER:  Want to take a lunch  
9 break?  Does that work for you?

10                   (Recess taken.)  
11  
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-----  
AFTERNOON SESSION

12:34 p.m.  
-----

BY MR. BORDER:

Q. Let's go to Exhibit 2013, which I believe you have. Let's focus on this first step. It says that the application does a DNS lookup to convert the host name to an IP address. Do you see that?

A. Uh-huh.

Q. Do you agree that that host name would be that of a remote host, as an example?

A. In that example, it's a host name, so it could be remote.

Q. And it's related to a remote host? Would you agree with that?

MR. ZEILBERGER: Objection; form.

THE WITNESS: It's a host name so...

BY MR. BORDER:

Q. Go to step 2. It says the application requests a connection to the remote host. I guess what I'm getting at is, the host name identified in step 1, is that associated with the remote host that the application is attempting to

1 establish a connection with?

2 MR. ZEILBERGER: Objection; form.

3 Foundation.

4 THE WITNESS: So in step 2 in Aventail  
5 the client application requests a connection  
6 to the remote host, and this connection  
7 request is checked by Aventail Connect. The  
8 connection request maybe previously created  
9 the false DNS entry and does not include a  
10 domain name.

11 BY MR. BORDER:

12 Q. Okay. Now, if you move on to step 2B,  
13 and in fact 2B3 if you're following me, it says  
14 it then sends the proxy request to the extranet  
15 SOCKS server. This includes either the IP  
16 address provided by the application or the DNS  
17 entry host name provided in step 1.

18 Is the host name referred to in step  
19 2B3 the same as the host name referred to in step  
20 1?

21 A. So the proxy request in step 2B3 may  
22 include a host name. That's what it says here.  
23 Which is sent after the -- which begins when the  
24 connection is complete.

25 Q. And so you agree that the host name

1 that is transmitted to the Aventail extranet  
2 server in 2B3 is the same as the host name that  
3 is received by Aventail Connect in step 1?

4 MR. ZEILBERGER: Objection; form.

5 BY MR. BORDER:

6 Q. Correct?

7 A. So again, in 2B this proxy request may  
8 include a host name. It doesn't say it's the  
9 same host name in 2A1 that you asked.

10 Q. I'm asking, is it your opinion that it  
11 is the same as the host name in step 1?

12 MR. ZEILBERGER: Objection; form.

13 THE WITNESS: As I said here, again  
14 Aventail Connect just says it may include a  
15 host name.

16 BY MR. BORDER:

17 Q. So you don't know?

18 A. It doesn't say whether it's the  
19 specific -- you're asking does it have to be the  
20 same.

21 Q. I didn't ask whether it has to be the  
22 same. I'm asking whether it's your opinion that  
23 it's the same.

24 MR. ZEILBERGER: Objection; form.

25 BY MR. BORDER:

1 Q. Is your response that you don't know?

2 MR. ZEILBERGER: Objection; form.

3 THE WITNESS: It can be included -- it  
4 can be that host name in step 1.

5 BY MR. BORDER:

6 Q. The host name in step 2B3 can be the  
7 same as the host name in step 1?

8 A. It says may include a host name. If  
9 you look --

10 Q. So if the --

11 MR. ZEILBERGER: Scott, you have to  
12 let Dr. Monroe answer.

13 BY MR. BORDER:

14 Q. All right. I'm going to strike that  
15 question and I'll ask you another one.

16 Referring to step 2B3, if the proxy  
17 request contains a host name, that host name will  
18 be the same as the host name identified in step  
19 1, agreed?

20 MR. ZEILBERGER: Objection; form.

21 THE WITNESS: 1C says if the DNS proxy  
22 option is enabled -- which you're referring  
23 to -- later on Aventail Connect creates a  
24 fake DNS entry that it can recognize later  
25 and returns this to the calling application.

1           This false entry tells Aventail Connect that  
2           the DNS lookup must be proxy.

3                   In 2B3, it sends the proxy request to  
4           the extranet server. This includes either  
5           the IP address provided by the application  
6           or the DNS entry host name provided in step  
7           1.

8   BY MR. BORDER:

9           Q.     Is that your answer?

10          A.     Yeah.

11          Q.     Well, you didn't answer my question.

12          A.     As I said, it may be the one in step  
13          1.

14          Q.     Where do you see "may"?

15                   MR. ZEILBERGER: Objection; form.

16                   THE WITNESS: So in step 1, as I said,  
17           this could be a false entry. So in 2B, the  
18           DNS entry host name provided in step 1 could  
19           be the false entry.

20   BY MR. BORDER:

21          Q.     So it's your opinion that the DNS  
22           entry host name provided in step 2B3 is the false  
23           DNS entry?

24                   MR. ZEILBERGER: Objection; form.

25                   Foundation.

1           THE WITNESS: I don't believe I've  
2           expressed whether it has to be the one --  
3           the same in step 1, but I need to go back  
4           and take a closer look.

5 BY MR. BORDER:

6           Q.       So sitting here right now, you have no  
7           idea?

8           MR. ZEILBERGER: Objection; form.  
9           Foundation.

10          THE WITNESS: I said I need more time  
11          to go back and take a closer look.

12 BY MR. BORDER:

13          Q.       So right now you don't know?

14          MR. ZEILBERGER: Objection; form.  
15          Foundation.

16          THE WITNESS: I didn't say I don't  
17          know. I said I need to -- Subject to what's  
18          in my declaration, I need to sit and take a  
19          deeper examination of that with respect to  
20          your specific question.

21 BY MR. BORDER:

22          Q.       Okay. Well, let's look at step 1B.  
23          Maybe this will help. It says, Aventail Connect  
24          will forward the host name to the extranet SOCKS  
25          server in step 2 and the SOCKS server performs

1 the host name resolution.

2 Does that help you understand what the  
3 host name is that it sent to the extranet SOCKS  
4 server is in step 2B3, to the extent it includes  
5 a host name?

6 A. I said it could include that host  
7 name. Your question whether it can only be that,  
8 I said I need to sit back and think about it.

9 Q. Okay. So we at least agree that the  
10 host name in step 2B3 and the host name in step 1  
11 can be the same host name, correct?

12 A. As said, I think I need to take a  
13 closer look at whether or not it restricts it to  
14 that case.

15 Q. I think my question was a little bit  
16 different. The question was: Can we at least  
17 agree that the host name in step 2B3 and the host  
18 name in step 1 can be the same host name?

19 MR. ZEILBERGER: Objection; form.

20 THE WITNESS: So there might be some  
21 specific detail that's missing me right now  
22 sitting looking at Exhibit 1009 that I need  
23 to think about further. But I believe it  
24 could be.

25 BY MR. BORDER:



1           Q.     Okay. And the host name in step 1 is  
2 the host name that is matched against a  
3 redirection rule, correct?

4           MR. ZEILBERGER: Objection; form.

5           THE WITNESS: In step 1, a host name  
6 provided, it can be checked against -- will  
7 be checked against a redirection rule.

8 BY MR. BORDER:

9           Q.     Okay. I think we can put Aventail  
10 away.

11           Let's look at your 812 declaration.  
12 Let's go to Paragraph 25.

13           In Paragraph 25 you discuss both  
14 address hopping and encryption, correct?

15           A.     So in Paragraph 25 it speaks about  
16 address hopping, and my opinion with respect to  
17 the statements made under Apple's proposed  
18 construction.

19           Q.     And it's your opinion that encryption  
20 hides information on the path while moving from  
21 address to address, correct?

22           A.     Encryption hides information on the  
23 path.

24           Q.     And you also state that address  
25 hopping alone does not preclude an eavesdropper

1 from reading the contents of a communication,  
2 correct?

3 A. I do.

4 Q. But you would agree that address  
5 hopping does make it difficult for an  
6 eavesdropper to obtain all the packets  
7 transmitted between two devices that are  
8 communicating, correct?

9 MR. ZEILBERGER: Objection; form.  
10 Foundation.

11 THE WITNESS: So I state in my  
12 declaration address hopping may make it  
13 difficult to detect who is talking to whom.  
14 But that's the only extent. It doesn't hide  
15 anything about the conversation.

16 BY MR. BORDER:

17 Q. But you would agree that the '009  
18 patent uses address hopping to hide the -- Strike  
19 that.

20 You would agree that the '009 patent  
21 uses address hopping to hide the identities of  
22 the parties to a communication, correct?

23 A. It is part of what the '009 patent  
24 does.

25 Q. So certainly you would agree that

1 address hopping and encryption are different,  
2 right?

3 A. Yes.

4 Q. And they address different aspects of  
5 securing communications?

6 MR. ZEILBERGER: Objection; form.

7 THE WITNESS: In view of '009, address  
8 hopping and encryption are used differently.

9 BY MR. BORDER:

10 Q. Okay. Let's open up the '009 patent.  
11 This is Exhibit 1003. I think we gave you this  
12 before.

13 Are you aware of any disclosure in the  
14 '009 patent stating any concerns about the --  
15 Strike that.

16 Are you aware of any disclosure in the  
17 '009 patent stating that there are concerns about  
18 the computing power needed to encrypt packets?

19 MR. ZEILBERGER: Objection; form.  
20 Foundation.

21 THE WITNESS: If you are asking do I  
22 recall in '009 whether Larson, et al., the  
23 patent owners disclosed whether  
24 computational power is an issue, off the top  
25 of my head right now, I don't recall.

1 BY MR. BORDER:

2 Q. Well, let's turn to the back of the  
3 '009 patent, the claim sections.

4 Claim 15 in particular, it states:  
5 "The method of Claim 14, wherein the secure  
6 communications service" -- oh, I'm sorry. Let me  
7 let you get there.

8 A. I'm there.

9 Q. So Claim 15 states: "The method of  
10 Claim 14, wherein the secure communications  
11 service includes a video conferencing service,  
12 and communicating includes communicating at least  
13 one of encrypted video data and audio data with  
14 the second network device via the encrypted  
15 communication link using the secure  
16 communications service."

17 Do you see that?

18 A. I do.

19 Q. This is the flavor of my earlier  
20 question. You're not aware of any disclosure in  
21 this patent where the authors are concerned about  
22 the feasibility of sending encrypted video data  
23 or audio data via the encrypted communication  
24 link, correct?

25 MR. ZEILBERGER: Objection; form.

1           Scope.

2                   THE WITNESS:   So sitting right here  
3           today, I don't recall specific mentions off  
4           the top of my head in '009 that it addresses  
5           this computational issue that you've raised.  
6           Though the prior art referenced in this  
7           case, Beser, specifically teaches that there  
8           are computational challenges with using  
9           encryption.

10       BY MR. BORDER:

11           Q.       More broadly, do you believe that a  
12       person of ordinary skill in the art in February  
13       2000 would have been able to configure a system  
14       to encrypt streaming video data or audio data  
15       similar to what is described in Claim 15?

16                   MR. ZEILBERGER:   Objection; scope.

17                   THE WITNESS:   By looking at what  
18       references in particular?   You asked a  
19       general question.   So back in circa 2000  
20       whether I saw if one skilled in the art,  
21       sort of broad statement, that they need to  
22       include video conferencing services and at  
23       least one encrypted video data and audio,  
24       would they be able to do what?

25       BY MR. BORDER:

1 Q. I'll ask the question again.

2 Do you believe that a person of  
3 ordinary skill in the art in February 2000 would  
4 have been able to configure a system to encrypt  
5 video data and audio data within an encrypted  
6 communication link?

7 MR. ZEILBERGER: Objection; scope.  
8 Objection to form.

9 THE WITNESS: I've made no statement  
10 as to whether or not someone skilled in the  
11 art would be able to do this other than  
12 saying that with respect to Beser, Beser  
13 teaches away from the use of encryption,  
14 which is the reference pointed to here,  
15 primarily because of computational  
16 limitations pointed to by Beser.

17 BY MR. BORDER:

18 Q. So your testimony is you don't know?

19 MR. ZEILBERGER: Objection; form.

20 THE WITNESS: I didn't say that.

21 BY MR. BORDER:

22 Q. I'll ask you the question again.

23 A. Uh-huh.

24 Q. As someone who holds himself out to be  
25 a person of ordinary skill, correct -- you are a

1 person of ordinary skill, correct?

2 A. Correct.

3 Q. Would a person of ordinary skill in  
4 the art in February 2000 have been able to  
5 configure a system to encrypt video and audio  
6 data within an encrypted communication link?

7 MR. ZEILBERGER: Objection; scope.  
8 Objection; form.

9 THE WITNESS: You're asking a lot  
10 there. I said circa 2000, one of ordinary  
11 skill in the art would know how to do that.

12 BY MR. BORDER:

13 Q. Now, with respect to Claim 15, would a  
14 person of ordinary skill in the art in February  
15 2000 have been concerned about the feasibility of  
16 sending encrypted video data and audio data via  
17 the encrypted communication link?

18 MR. ZEILBERGER: Objection; scope.  
19 Objection; form.

20 THE WITNESS: That depends on a number  
21 of factors, right? What type of encryption  
22 they're trying to do, what their  
23 understanding of it is.

24 BY MR. BORDER:

25 Q. Well, let's take the '009 patent.

1     What type of encryption is disclosed in the '009  
2     patent?

3             A.     In the '009 patent, in the  
4     "Background" section -- Sorry. Did you say in  
5     the reference or in the --

6             Q.     In the '009 patent.

7             A.     In the '009 patent.

8                     So the '009 patent refers to several  
9     encryption schemes, including the use of both  
10    symmetric or asymmetric schemes. So as stated in  
11    Column 1, line 60 to 65. There's also a  
12    discussion of zero knowledge systems. And in  
13    Column 43 there's also a discussion of IPsec and  
14    message authentication, code HMAC, among others.

15            Q.     Let's just pick one of those as an  
16    example. So do you agree that with respect to  
17    Claim 15, a person of ordinary skill in the art  
18    would not have been concerned -- Excuse me. Let  
19    me strike that.

20                    Would a person of ordinary skill in  
21    the art in February 2000 have been concerned  
22    about the feasibility of sending video and audio  
23    data encrypted with IPsec via the encrypted  
24    communication link?

25                    MR. ZEILBERGER: Objection; outside



1 the scope.

2 THE WITNESS: Again, I'm giving my  
3 opinion, and it all depends on their  
4 detailed knowledge. But IPSec, as an  
5 example, encompasses both symmetric and  
6 asymmetric crypto of which for asymmetric  
7 crypto there are performance implications.  
8 So it depends.

9 BY MR. BORDER:

10 Q. And the '009 patent does not identify  
11 any concerns about using either asymmetric or  
12 symmetric cryptography for its encryption,  
13 correct?

14 MR. ZEILBERGER: Objection; outside  
15 the scope of the witness's direct testimony  
16 and his declaration.

17 THE WITNESS: These matters at hand, I  
18 have not looked at that. I need more time  
19 to see through whether or not those  
20 statements hold.

21 BY MR. BORDER:

22 Q. What do you need to look at?

23 A. You said -- I will have to go through  
24 all the specifics of '009 and see whether or not  
25 there is ability for that computation is an

1 issue. That's outside of what we're discussing  
2 here.

3 Q. Okay. Well, let's move outside the  
4 scope of the '009 patent and just focus on your  
5 opinion as a person of ordinary skill in the art  
6 in February 2000.

7 Do you know whether a person of  
8 ordinary skill in the art in February 2000 would  
9 have been concerned about encrypting video and  
10 audio data using IPSec?

11 MR. ZEILBERGER: Objection; outside  
12 the scope of the witness's direct testimony.

13 THE WITNESS: As I said before, it  
14 depends on a number of factors. I don't  
15 know what else you want me to tell you.  
16 There are computational issues with respect  
17 to cryptography.

18 MR. ZEILBERGER: Scott, can we take a  
19 quick break?

20 MR. BORDER: Yes. This is a good  
21 stopping point.

22 (Recess taken.)

23 BY MR. BORDER:

24 Q. Let's go to Paragraph 40 in your 812  
25 declaration. My question is: In reviewing

1 Dr. Tamassia's testimony, how do you know what  
2 Dr. Tamassia meant when he said "the DNS protocol  
3 for such requests"?

4 MR. ZEILBERGER: Objection; form.

5 Also object to the extent this question  
6 calls for privileged or work product  
7 information.

8 But to the extent you can answer that  
9 without providing such information, the  
10 witness may answer.

11 THE WITNESS: So I can say that I  
12 was -- as part of my services, I was asked  
13 to respond to a statement made by  
14 Dr. Tamassia in his cross-examination.

15 BY MR. BORDER:

16 Q. How do you know that Dr. Tamassia was  
17 not referring to the DNS protocol described in  
18 the '009 patent in this passage that you quote in  
19 Paragraph 40?

20 MR. ZEILBERGER: Objection; form.

21 Objection; foundation.

22 THE WITNESS: So I just said my  
23 understanding is that he explained that he  
24 understood that the domain name service  
25 request to look up a network address as

1           recited in Claim 1 was a request that  
2           follows the DNS protocol for such request.  
3           That's his understanding.

4   BY MR. BORDER:

5           Q.       What do you understand the DNS  
6           protocol to refer to?

7                   MR. ZEILBERGER:  Objection; form.

8                   THE WITNESS:  This is specific to  
9           the -- on the Claim 1 whether the request  
10          follows a DNS protocol for such request.  I  
11          took his understanding and I looked to see  
12          whether or not these requests follow -- and  
13          that's how they follow the DNS protocol, and  
14          I could not find that.  So...

15  BY MR. BORDER:

16          Q.       What protocol is the DNS protocol?

17                   MR. ZEILBERGER:  Objection; form.

18                   THE WITNESS:  The domain name service  
19          protocol.  His statement is more specific,  
20          that he made an argument that he believes  
21          they follow the DNS protocol for such  
22          requests.  I have not evaluated -- I haven't  
23          made any statements beyond that.  The  
24          limitation is alleged to have been met, and  
25          I looked for whether that could be the case

1 under his understanding put forth by Apple's  
2 own expert, and I could not find it. That's  
3 all I'm saying in Paragraph 40.

4 BY MR. BORDER:

5 Q. Would a person of ordinary skill in  
6 February 2000 understand what the DNS protocol  
7 was?

8 A. Yes.

9 Q. And do you ever challenge Dr. Tamassia  
10 as not being a person of ordinary skill?

11 MR. ZEILBERGER: Objection; scope.

12 THE WITNESS: I have no reason to  
13 challenge him.

14 BY MR. BORDER:

15 Q. So you agree that Dr. Tamassia would  
16 understand what the DNS protocol entails?

17 MR. ZEILBERGER: Objection; scope.

18 BY MR. BORDER:

19 Q. Correct?

20 A. As I said, all I'm saying here is he's  
21 made a statement that that request in 1 follows  
22 the DNS protocol for such requests, and I find  
23 that in Beser's tunnel request it's silent on  
24 whether or not it follows the DNS protocol.

25 Q. But you agree that he would understand

1     what the DNS protocol actually is, correct?

2                     MR. ZEILBERGER:  Objection; scope.

3                     THE WITNESS:  I agree he should.

4     BY MR. BORDER:

5             Q.     And is that the DNS protocol specified  
6     in RFCs 1034 and 1035?

7                     MR. ZEILBERGER:  Objection; form.

8             Objection; outside the scope of the  
9     witness's direct testimony.

10                    THE WITNESS:  Again, as I said before,  
11     Dr. Tamassia during cross-examination was --  
12     I was informed he made a statement.  I  
13     needed to evaluate that statement and see  
14     whether or not the alleged limitations were  
15     met.  And what is referred to I cannot --  
16     All I'm saying is Beser is silent as to  
17     whether these requests follow the DNS  
18     protocol.

19     BY MR. BORDER:

20             Q.     So is it your opinion that a prior art  
21     reference only teaches what is explicitly in the  
22     reference?

23                    MR. ZEILBERGER:  Objection; outside  
24     the scope of the witness's direct testimony.

25                    THE WITNESS:  I have given no such

1 opinion.

2 BY MR. BORDER:

3 Q. So you agree that a person of ordinary  
4 skill -- Strike that.

5 You agree that a prior art is viewed  
6 from the perspective of a person of ordinary  
7 skill, correct?

8 A. At the time of the invention.

9 Q. And that certain aspects of that prior  
10 art need not be explicit. Do you agree with  
11 that?

12 MR. ZEILBERGER: Objection; form.

13 THE WITNESS: Again, I think we're  
14 going at this -- we're speaking past each  
15 other. Here Dr. Tamassia said that he  
16 believed that those requests needed to  
17 follow the DNS protocol. And under that  
18 understanding, his understanding, I see  
19 Beser being silent on that.

20 BY MR. BORDER:

21 Q. And when you state that you see Beser  
22 being silent on that, your expectation is that  
23 Beser would have to explicitly say DNS protocol  
24 in order to follow DNS protocol, correct?

25 MR. ZEILBERGER: Objection; form.

1           Objection; foundation.

2                   THE WITNESS:   Whether the tunneling  
3           request --

4                   MR. ZEILBERGER:   Hold on.   Let me make  
5           my objections.

6                   THE WITNESS:   Oh, sorry.

7                   MR. ZEILBERGER:   Objection; form.  
8           Objection; foundation.

9                   THE WITNESS:   As I said here, it's  
10          just silent on whether the tunneling  
11          requests follow the DNS protocol.

12   BY MR. BORDER:

13           Q.       But you agree that a prior art  
14          reference can be silent as to certain particular  
15          issues because it's not what is explicitly  
16          disclosed but what is understood by a person of  
17          ordinary skill in the art.   Do you agree with  
18          that?

19           A.       Given --

20                   MR. ZEILBERGER:   Objection; form.  
21          Objection; outside the scope of the  
22          witness's direct.

23                   THE WITNESS:   My understanding is  
24          given what the prior art teaches and the  
25          specifications thereof.



1 BY MR. BORDER:

2 Q. So you have no opinion whether a  
3 person of ordinary skill would understand that  
4 Beser's tunneling requests follow the DNS  
5 protocol, correct?

6 MR. ZEILBERGER: Objection; form.

7 THE WITNESS: My opinion is that Beser  
8 is silent as to whether the tunneling  
9 requests follow the DNS protocol.

10 BY MR. BORDER:

11 Q. And when you say it's silent, you mean  
12 it explicitly does not state that it follows the  
13 DNS protocol, correct?

14 A. It makes no connection to the  
15 tunneling requests following the DNS protocol, as  
16 far as I can tell.

17 Q. It makes no explicit connection as far  
18 as you can tell, correct?

19 A. I don't believe it makes an implicit  
20 or explicit connection.

21 Q. Do you know what a recursive approach  
22 to resolving DNS queries is?

23 MR. ZEILBERGER: Objection; scope and  
24 form.

25 THE WITNESS: In general, I know that

1           DNS has iterative and recursive approaches.

2       BY MR. BORDER:

3           Q.     And do you know how a recursive  
4       approach works?

5           MR. ZEILBERGER:   Objection; outside  
6       the scope of the witness's direct testimony.

7           THE WITNESS:   Sitting right here  
8       today, I can't recall all the specifics of  
9       all of the transactions that happen in a  
10      recursive.

11      BY MR. BORDER:

12           Q.     Can you tell me generally how a  
13      recursive approach works?

14           MR. ZEILBERGER:   Same objection.

15           THE WITNESS:   So generally speaking,  
16      you make a request to a local resolver that  
17      attempts to walk through the DNS name space.

18      BY MR. BORDER:

19           Q.     In the recursive approach to resolving  
20      a DNS query, a DNS server that receives a request  
21      from a client will contact other servers to  
22      obtain an IP address associated with the domain  
23      name in the request, correct?

24           MR. ZEILBERGER:   Objection;  
25      foundation.   Objection; outside the scope of

1 the witness's direct testimony.

2 THE WITNESS: So generally speaking,  
3 without going through and recalling all the  
4 specifics of the recursive method in DNS,  
5 other resolvers may be relied upon.

6 BY MR. BORDER:

7 Q. One more question and we'll move on.  
8 By "resolvers," do you mean other DNS servers?

9 MR. ZEILBERGER: Objection; outside  
10 the scope of the witness's direct.  
11 Objection; form.

12 THE WITNESS: So again you asked a  
13 very general question. As I said before,  
14 the intricacies of whether it's iterative or  
15 a recursive approach -- in fact, every time  
16 I teach that, which I do teach, I have to go  
17 back and look at the specifics of the two.  
18 They involve things that might be considered  
19 local, stub resolvers, DNS servers. It  
20 could be a host of things. I'm not going to  
21 be able to sit here and tell you exactly  
22 what the resolvers are in each case.

23 BY MR. BORDER:

24 Q. Let's go to Exhibit 1007. It's Beser.  
25 Do you have a copy?

1 I've handed you Exhibit 1007, which is  
2 United States patent to Beser, Patent  
3 Number 6,496,867. Do you recognize this?

4 A. I do.

5 Q. I think the first thing I would like  
6 to do is understand the general processes  
7 described in Beser. I would say let's turn to  
8 Figure 6. Are you there?

9 A. Uh-huh.

10 Q. So the first step in establishing a  
11 tunnel between the originating telephony device  
12 and the terminating telephony device -- so the  
13 first thing that happens is the originating  
14 telephony device will issue a timely request to  
15 communicate with the terminating telephony  
16 device, correct?

17 MR. ZEILBERGER: Objection;  
18 foundation. Objection; form.

19 THE WITNESS: So it's disclosed, the  
20 tunnel association between the originating  
21 end and the terminating end here in Beser is  
22 facilitated by an intermediary. And when  
23 that device you mentioned, 24 wants to  
24 communicate with 26, it sends a tunnel  
25 initiation request to 14. And this request

1 includes a unique identifier for the  
2 terminating end of the tunnel association.

3 BY MR. BORDER:

4 Q. So I'll ask the question again. When  
5 the originating telephony device 24 wants to  
6 communicate with the terminating telephony device  
7 26, it issues a request that includes the unique  
8 identifier of the terminating telephony device,  
9 correct?

10 MR. ZEILBERGER: Objection;  
11 foundation. Form.

12 THE WITNESS: The request includes a  
13 unique identifier for the terminating end of  
14 the tunnel association.

15 BY MR. BORDER:

16 Q. And that request is not received at  
17 the terminating telephony device 26 but is  
18 received at the first network device 14, correct?

19 MR. ZEILBERGER: Objection; form.

20 THE WITNESS: The originating -- The  
21 request 112, as depicted in Figure 6, refers  
22 to the request to initiate a tunnel that is  
23 sent from 24, element 24, to element 14.

24 BY MR. BORDER:

25 Q. My question was a little bit

1 different. That request is received at the first  
2 network device, correct?

3 MR. ZEILBERGER: Objection; form.

4 THE WITNESS: That request is  
5 addressed to the first network device 14.

6 BY MR. BORDER:

7 Q. That's not my question. My question  
8 is: The request is received at the first network  
9 device, correct?

10 MR. ZEILBERGER: Objection; form.

11 THE WITNESS: The request is addressed  
12 to and sent to the first network device 14.  
13 I think we're saying the same thing.

14 BY MR. BORDER:

15 Q. We're not saying the same thing.

16 Is the request for a tunneling  
17 association by originating device 24 received at  
18 the first network device 14?

19 MR. ZEILBERGER: Objection; form.

20 THE WITNESS: It is addressed to  
21 network device 14 and processed by network  
22 device 14.

23 BY MR. BORDER:

24 Q. Dr. Monroe, I'm not asking you what  
25 it's addressed to. I'm asking you whether the

1 first network device receives the tunneling  
2 request, yes or no?

3 A. It is addressed to it. So how do you  
4 mean?

5 Q. So you agree that the first network  
6 device receives the tunneling request?

7 A. It's addressed to it, yes.

8 Q. You agree that the first network  
9 device receives the tunneling request?

10 A. Again, the tunneling request is sent  
11 from device 24 to device 14.

12 Q. And is it received by device 14?

13 A. It's received by device 14 then. 24  
14 sends a request 112 to 14.

15 Q. And the unique identifier identified  
16 in that request is of the terminating telephony  
17 device 26, correct?

18 MR. ZEILBERGER: Objection;  
19 foundation.

20 THE WITNESS: It includes a unique  
21 identifier for the terminating end of the  
22 tunnel association.

23 BY MR. BORDER:

24 Q. Let's go to Paragraph 37. Hold on a  
25 second. I may be able to skip that.

1                   Let's go to Paragraph 38 instead.

2       This is your 812 -- 810, which I do not have in  
3       front of me.

4                   So let's look at your 810 declaration.  
5       And I'm looking at Paragraph 38. Do you agree  
6       that the originating device does not address  
7       tunneling requests to the trusted third-party  
8       network device?

9                   MR. ZEILBERGER: Objection; form.

10                  THE WITNESS: So can you repeat your  
11       question now that I've read 38?

12       BY MR. BORDER:

13                  Q.       Sure.

14                  You would agree that the originating  
15       device does not address tunneling requests to the  
16       trusted third-party network device, correct?

17                  MR. ZEILBERGER: Objection; form.

18                  THE WITNESS: So the request, the  
19       inform request that goes to the trusted  
20       third party, is from the first network  
21       device 14, and it's addressed to the trusted  
22       third party. Which as I say here, Beser  
23       explains that when the first network device  
24       14 informs trusted third-party network  
25       device 30 of a request, it constructs an IP



1 packet where the header of the IP packet  
2 contains the public network address of the  
3 trusted third-party network device in the  
4 destination field and the public network  
5 address of the first network device 14 in  
6 the source field.

7 BY MR. BORDER:

8 Q. So it's your opinion that when the  
9 first network device receives the tunneling  
10 request, it creates a new IP packet that is  
11 addressed to the third-party network device,  
12 correct?

13 A. It's a different request. It says  
14 they get a request to initiate a tunnel, and then  
15 the first network device sends an inform message.

16 Q. So then it is your opinion that the  
17 tunneling request is not addressed to the  
18 third-party network device, correct?

19 MR. ZEILBERGER: Objection; form.

20 Objection; foundation.

21 THE WITNESS: I don't know what you  
22 mean here by "the tunneling request."

23 BY MR. BORDER:

24 Q. Well, let me put a little finer point  
25 on it.

1           So you would agree that the  
2     originating device does not address tunneling  
3     requests to the third-party network device,  
4     correct?

5           A.     I would agree that the originating  
6     device 24 sends a request labeled here 112, to  
7     the first network device. There is a second  
8     request from that first network device which it  
9     refers to in Beser as the inform message that  
10    goes to the trusted third party.

11          Q.     So what you refer to as the first  
12    request, which is the request from the  
13    originating device, that request does not have  
14    the address of the trusted third-party network  
15    device, correct?

16               MR. ZEILBERGER: Objection; form.

17               THE WITNESS: Column 7 and 8 of the

18               '867 says the --

19    BY MR. BORDER:

20          Q.     Which line?

21          A.     Column 8, first line: "...the request  
22    includes a unique identifier for the terminating  
23    end of the tunnel association." And here we're  
24    talking about request 112.

25          Q.     So you agree it does not include the

1 address of the trusted third-party network  
2 device, correct?

3 MR. ZEILBERGER: Objection; form.

4 THE WITNESS: So again, subject to  
5 what's in my declaration, but I do believe  
6 that those requests only include the unique  
7 identifier for the terminating end of the  
8 tunneling association and not the trusted  
9 third-party network device.

10 BY MR. BORDER:

11 Q. It's possible that the recording here  
12 didn't quite capture your answer. I just want to  
13 confirm.

14 So again, subject to what's in your  
15 declaration, you believe that the tunneling  
16 request only includes the unique identifier for  
17 the terminating end of the tunneling association  
18 and not the address of the trusted third-party  
19 device, correct?

20 MR. ZEILBERGER: Objection;  
21 mischaracterizes the witness's testimony.

22 THE WITNESS: What I said was, subject  
23 to what's in my declaration, that I believe  
24 that this request includes a unique  
25 identifier for the terminating end of the

1 tunneling association.

2 BY MR. BORDER:

3 Q. But it does not include the address of  
4 the third-party -- of the trusted third-party  
5 network device, correct?

6 A. And as I said, offhand I don't recall  
7 statements that it does or does not include the  
8 trusted third party.

9 Q. Sitting here today, you don't know one  
10 way or the other?

11 A. As far as I recall from the  
12 specifications of Beser, it includes a unique  
13 identifier for the terminating end of the  
14 tunneling association.

15 Q. But you don't know whether it has --  
16 whether or not it has the address of the trusted  
17 third-party network device?

18 MR. ZEILBERGER: Objection to form.

19 THE WITNESS: I don't recall  
20 commenting on whether or not that request  
21 includes the trusted third party.

22 BY MR. BORDER:

23 Q. What do you mean by you don't recall  
24 commenting? Is that in your declaration?

25 A. I have said subject -- I don't recall

1     that in my declaration sitting here right now.

2           Q.     What about in Beser, do you recall any  
3     disclosure in Beser that suggests that the  
4     third-party network device -- that the address of  
5     the third-party network device is in the  
6     tunneling request from the originating device?

7           MR. ZEILBERGER:   Objection to form.

8     BY MR. BORDER:

9           Q.     Let me strike that question.   I think  
10    I can see the confusion here.

11           You agree that the originating device  
12    does not address the tunneling request to the  
13    third-party network device, correct?

14          A.     Correct.

15          Q.     Okay.   Let's move to Paragraph 33 of  
16    the 810 declaration.

17           Is it your opinion that the trusted  
18    third-party network device does not look up a  
19    private IP address for the terminating device?

20          A.     So as I stated -- and this is in  
21    Paragraph 34, which is connected to Paragraph 29  
22    and the info message -- that the trusted  
23    third-party network device 30 associates a public  
24    IP address of the second network device with the  
25    unique identifier of the terminating telephony

1 device.

2 And Beser states that the database  
3 entry on the trusted third device may include the  
4 public IP address of the terminating device  
5 referenced in Paragraph 29. Beser does not  
6 disclose that this structure is looked up when  
7 the request is received. It only teaches that  
8 when the trusted third-party network device is  
9 informed of the request, it associates a public  
10 address of the second network device with the  
11 unique identifier of the terminating device.

12 Q. So do you agree -- do you at least  
13 degree that Beser will return to the first public  
14 network device a public IP address of the second  
15 network device?

16 MR. ZEILBERGER: Objection;  
17 foundation.

18 THE WITNESS: What is your question?

19 I'm sorry.

20 BY MR. BORDER:

21 Q. I'm looking at the first question --  
22 I'm sorry, the first sentence in Paragraph 34.  
23 You quote look up and return to the first network  
24 device.

25 I'm wondering, is it your opinion that

1 Beser both does not look up and does not return  
2 to the first network device a public IP address  
3 for the second network device, or that it simply  
4 does not look up?

5 A. It --

6 MR. ZEILBERGER: Let me object.

7 THE WITNESS: Sorry.

8 MR. ZEILBERGER: Objection; form.

9 Objection; foundation.

10 THE WITNESS: So what I'm commenting  
11 on is what the petitioner alleged happens,  
12 which is look up and return of the first  
13 network device. And my declaration, in  
14 response to that argument, I'm saying that  
15 Beser does not disclose such a lookup  
16 happens.

17 BY MR. BORDER:

18 Q. Okay. So you're only focused on the  
19 lookup?

20 MR. ZEILBERGER: Objection; form.

21 BY MR. BORDER:

22 Q. You're not disputing that an address  
23 is returned, right?

24 MR. ZEILBERGER: Objection; form.

25 Mischaracterizes testimony.

1           THE WITNESS: All I'm saying is that a  
2           lookup -- I don't see Beser teaching that a  
3           lookup is performed.

4   BY MR. BORDER:

5           Q.     So it's your opinion that Beser is  
6           silent about how the trusted third-party network  
7           device associates a public IP address for the  
8           second network device, correct?

9           MR. ZEILBERGER: Objection; form.

10          MR. BORDER: Let me restate that.

11   BY MR. BORDER:

12          Q.     So it is your opinion that Beser is  
13           silent about how the trusted third-party network  
14           device associates a public IP address for device  
15           16, the second network device, with the unique  
16           identifier, correct?

17          A.     So as I stated before, Beser states  
18           that the database entry in the trusted  
19           third-party network device may include the public  
20           IP address for the terminating device. How  
21           this -- It does not teach when the device 30 is  
22           informed of the request to initiate the tunnel,  
23           how it associates the public IP address to the  
24           second network.

25          Q.     All right. Well, let's turn to



1 Column 9 of Beser, line 64. And this is  
2 describing Figure 5, correct?

3 A. You said Column 9?

4 Q. Column 9, line 64. So this passage  
5 begins the description of Figure 5, correct?

6 A. It does.

7 Q. And it states that Figure 5  
8 illustrates method 110 for initiating a VoIP  
9 association between an originating device 24 and  
10 a terminating device 26, correct?

11 A. Yes.

12 Q. So let's turn to Figure 5. And you  
13 see it has four steps numbered here, steps 112,  
14 114, 116 and 118, correct?

15 A. I see those four steps.

16 Q. So let's go back to Beser's  
17 description at Column 10, lines 2 to 4. And the  
18 passage starting at Column 10, line 2 to 4 of  
19 Beser is describing step 112 of Figure 5,  
20 correct?

21 A. The second line on Column 10  
22 discloses -- includes receiving a request to  
23 initiate the VoIP association on the first  
24 network device 14 at step 112.

25 Q. So that begins the description of the

1 action that takes place at step 112, correct?

2 A. Correct.

3 Q. And then moving down to Beser at  
4 Column 11, line 9 and 10, this passage describes  
5 step 114 of Figure 5, correct?

6 A. Column 11, line 9 to 25 refers to step  
7 114.

8 Q. Okay. And then moving on to the next  
9 paragraph beginning at line 26 of Column 11, this  
10 begins the description of step 16, correct? I'm  
11 sorry, step 116.

12 A. Can you repeat your question?

13 Q. Yeah, sorry about that.

14 So moving down in Column 11 of Beser,  
15 starting at line 26, this passage begins the  
16 description of step 116 in Figure 5, correct?

17 A. That paragraph is referring to step  
18 116.

19 Q. And step 116 in Figure 5 is labeled  
20 associate a public IP address for a second  
21 network device on the trusted third-party network  
22 device, correct?

23 A. That's what it is labeled.

24 Q. So let's skip down to line 59 in  
25 Column 11. The passage starting at line 59 of

1 Column 11 is describing step 118 of Figure 5,  
2 correct?

3 A. Line 59 to 67 in Column 11 is  
4 referring to the negotiation of the private  
5 addresses on the first network device and the  
6 second network device.

7 Q. And the description of step 118  
8 continues through to Column 12, line 19, right?

9 MR. ZEILBERGER: Objection;  
10 foundation.

11 THE WITNESS: Again, Column 12,  
12 lines 1 to 19 do seem to be referring to  
13 step 118.

14 BY MR. BORDER:

15 Q. Okay. Let's skip back a little bit.  
16 You testified earlier that Column 11, line 26,  
17 and the paragraph that follows, is describing  
18 step 116, correct?

19 A. Can you point me to where you're  
20 referring to, please?

21 Q. Sure. Column 11, line 26.

22 MR. ZEILBERGER: Objection;  
23 foundation.

24 THE WITNESS: So Column 11, as we  
25 discussed before, line 26, is discussing the

1 steps -- the step -- it's discussing step  
2 116.

3 BY MR. BORDER:

4 Q. And the discussion of step 116  
5 continues until line 58, correct?

6 MR. ZEILBERGER: Objection; form.

7 THE WITNESS: The discussion continues  
8 until that line.

9 BY MR. BORDER:

10 Q. All right. Let's go to Paragraph 15  
11 through 17 of your 810 declaration. Let's take a  
12 look at your construction of secure domain name.

13 A. Is this a different question  
14 altogether?

15 Q. No, no. We're looking at 15,  
16 Paragraph 15.

17 A. But you stopped your line of  
18 questioning on Figure 116?

19 Q. Yes.

20 A. Okay. I'm trying to keep it all in my  
21 head here.

22 Q. So in Paragraph 15 you provide a  
23 construction of secure domain name, correct?

24 MR. ZEILBERGER: Objection.

25 THE WITNESS: I don't provide a

1 construction. I said VirnetX proposed a  
2 construction which says it's a nonstandard  
3 domain name that corresponds to a secure  
4 computer network address and cannot be  
5 resolved by conventional DNS service. And  
6 in light of the specifications in the claim  
7 language, it seems in keeping with what's  
8 there.

9 BY MR. BORDER:

10 Q. So you agree with that proposed  
11 construction of "secure domain name"?

12 A. I agree it's in keeping with what the  
13 patent teaches.

14 Q. Okay. Well, let's go to Beser at --  
15 let's go to Beser at Column 10, line 38 to 41.  
16 And --

17 A. You've got to slow down. Sorry.

18 Q. Sorry about that. In fact, let's look  
19 at line 38. It says: "In another exemplary  
20 preferred embodiment of the present invention,  
21 the unique identifier is any of a dial-up number,  
22 an electronic mail address, or a domain name."

23 Do you see that?

24 A. I do.

25 Q. Did you consider whether a dial-up

1 number could be a secure domain name when forming  
2 your opinion?

3 A. So again, I agree that the -- with the  
4 patent, specifics are given that it's a  
5 nonstandard domain name that corresponds to a  
6 secure computer address. And I believe in this  
7 declaration I've pointed to some examples of  
8 that.

9 Q. But did you consider whether the  
10 dial-up number specified in lines 38 to 41 of  
11 Column 10 of Beser is a secure domain name when  
12 forming your opinion?

13 MR. ZEILBERGER: Objection; form.

14 THE WITNESS: A part of that  
15 construction is that it cannot be resolved  
16 by conventional DNS.

17 BY MR. BORDER:

18 Q. And so it's your opinion that a  
19 dial-up number cannot be a secure domain name?

20 MR. ZEILBERGER: Objection;  
21 mischaracterizes the witness's testimony.

22 THE WITNESS: I did not give an  
23 opinion on that. I have not.

24 BY MR. BORDER:

25 Q. Is it your opinion that a dial-up

1 number can be a secure domain name?

2 MR. ZEILBERGER: Same objection.

3 THE WITNESS: A secure domain name is  
4 a construed term. And to answer your  
5 question, I would have to look very closely  
6 at the dial-up number and whether it meets  
7 all the specifications outlined for a secure  
8 domain name.

9 BY MR. BORDER:

10 Q. You haven't previously done that  
11 analysis, correct?

12 A. For a dial-up number?

13 Q. Correct.

14 A. As far as I recall, that is correct.

15 MR. BORDER: This is a good stopping  
16 point. Why don't we take a break.

17 (Recess taken.)

18 BY MR. BORDER:

19 Q. Can you please turn to Paragraph 3 of  
20 your 810 declaration. There you state you have  
21 reviewed the exhibits and other documentation  
22 supporting the petition that are relevant to the  
23 decision and the instituted grounds and any other  
24 material that I reference in this declaration.

25 Do you see that?

1           A.       Where are you reading from? I'm  
2       sorry.

3           Q.       That's the last sentence of  
4       Paragraph 3.

5           A.       That's correct.

6           Q.       So you agree one of the exhibits you  
7       would have reviewed would have been RFC 2401,  
8       correct?

9           A.       That's correct.

10          Q.       And that's Exhibit 1108. And you  
11       reviewed some of the other exhibits that were  
12       referenced in the decision and the instituted  
13       grounds, correct?

14                 MR. ZEILBERGER: Objection; form.

15                 THE WITNESS: For this petition, I  
16       looked at what was referenced.

17       BY MR. BORDER:

18          Q.       Now, you reviewed other RFCs  
19       throughout your career, correct?

20                 MR. ZEILBERGER: Objection; outside  
21       the scope of direct.

22                 THE WITNESS: What do you mean by  
23       "reviewed"?

24       BY MR. BORDER:

25          Q.       Well, you're familiar with what an RFC



1 is, correct?

2 A. That's correct, uh-huh.

3 Q. And you have used them in your work,  
4 correct?

5 A. That's correct.

6 Q. So would it be fair to say that  
7 someone of ordinary skill in the art would be  
8 familiar with an RFC generally?

9 MR. ZEILBERGER: Objection; outside  
10 the scope of direct.

11 THE WITNESS: Based on my knowledge of  
12 the educational level of those skilled in  
13 the art at the time of the invention, I  
14 believe they would be aware of the concept  
15 of an RFC.

16 BY MR. BORDER:

17 Q. And they would be aware of how they  
18 could get a relevant RFC, correct?

19 MR. ZEILBERGER: Objection; form.  
20 Objection; outside the scope.

21 THE WITNESS: What do you mean by  
22 "get"?

23 BY MR. BORDER:

24 Q. They would be aware of how they could  
25 find and acquire a relevant RFC, right?

1 MR. ZEILBERGER: Objection; form.

2 Objection; outside the scope of direct.

3 THE WITNESS: I've not made any  
4 opinions as to whether or not the RFC -- how  
5 to get hold of an RFC would have been known  
6 by one of skill in the art.

7 BY MR. BORDER:

8 Q. All right. Well, let me give you  
9 Exhibit 1008, it's RFC 2401.

10 A. Okay.

11 Q. If a person of ordinary skill in the  
12 art in February of 2000 wanted to read about  
13 IPSec, do you agree that one of the places they  
14 would have looked is to RFC 2401, correct?

15 MR. ZEILBERGER: Objection; scope.  
16 Objection; form.

17 THE WITNESS: So I agree that --  
18 sorry -- IPSec is disclosed in this RFC, RFC  
19 2401. And so it's one place to look for  
20 information about IPSec.

21 BY MR. BORDER:

22 Q. And do you know how you would obtain a  
23 copy of an RFC?

24 MR. ZEILBERGER: Objection; outside  
25 the scope of direct.

1                   THE WITNESS: Are you asking about now  
2                   or in the past?

3       BY MR. BORDER:

4           Q.       Let's start with now.

5                   MR. ZEILBERGER: Same objection.

6       BY MR. BORDER:

7           Q.       How would you obtain a copy of an RFC  
8           today?

9                   MR. ZEILBERGER: Objection; outside  
10           the scope of direct.

11                   THE WITNESS: Generally speaking, you  
12           look for whether -- you look and see if the  
13           RFC is available on the web, as an example.

14       BY MR. BORDER:

15           Q.       And where do you look to see if the  
16           RFC is available?

17                   MR. ZEILBERGER: Objection; form.  
18           Objection; outside the scope of direct.

19                   THE WITNESS: I don't understand what  
20           you mean, where you look. As an example,  
21           look on, you know, on the web, however the  
22           RFCs are being distributed.

23       BY MR. BORDER:

24           Q.       And in February of 2000, where would  
25           you look to see if an RFC is available?

1 MR. ZEILBERGER: Objection; form.

2 Objection; outside the scope of direct.

3 MR. BORDER: Let me ask a different  
4 question.

5 BY MR. BORDER:

6 Q. The web was available in February of  
7 2000, correct?

8 MR. ZEILBERGER: Objection; outside  
9 the scope of direct.

10 BY MR. BORDER:

11 Q. And you agree that might be a place  
12 you would look for an RFC in February of 2000,  
13 correct?

14 MR. ZEILBERGER: Objection; form.  
15 Objection; outside the scope of direct.

16 THE WITNESS: Again, my -- it all  
17 depends on how widely distributed that RFC  
18 is and where you would look and how you  
19 would find it.

20 BY MR. BORDER:

21 Q. But you do agree the web was available  
22 in February of 2000?

23 MR. ZEILBERGER: Objection; form.  
24 Objection; outside the scope of direct.

25 THE WITNESS: If you're asking if the

1 web existed then, the web existed.

2 BY MR. BORDER:

3 Q. And by "web," we're talking about the  
4 Internet, correct?

5 MR. ZEILBERGER: Objection; outside  
6 the scope of direct.

7 THE WITNESS: Ask me a general  
8 question. Yes.

9 BY MR. BORDER:

10 Q. So let's look at Exhibit 1008. Take a  
11 look at the top right. Do you see that? Well,  
12 let's take a look at the front page of this.  
13 Does this look familiar to you generally as an  
14 RFC?

15 MR. ZEILBERGER: Objection; outside  
16 the scope of direct. Objection; form.

17 THE WITNESS: If you're asking me if  
18 what's in front of me looks like an RFC, it  
19 says RFC 2401.

20 BY MR. BORDER:

21 Q. Is this generally the format of what  
22 an RFC might look like?

23 MR. ZEILBERGER: Objection; outside  
24 the scope of direct.

25 THE WITNESS: As I said before, RFCs

1           that I've looked at, they're in keeping with  
2           what is presented here. It's an RFC.

3 BY MR. BORDER:

4           Q.       And looking at the top right-hand  
5 corner, there is a date there, correct?

6           MR. ZEILBERGER: Objection; form.

7           THE WITNESS: On the document you  
8 handed me, there is a date of November 1998.

9 BY MR. BORDER:

10          Q.       And what does November 1998 mean to  
11 you?

12          MR. ZEILBERGER: Objection; outside  
13 the scope of direct.

14          THE WITNESS: What do you mean? It's  
15 November 1998.

16 BY MR. BORDER:

17          Q.       What does that mean in the context of  
18 this document?

19          MR. ZEILBERGER: Objection; outside  
20 the scope of direct.

21          THE WITNESS: It could mean many  
22 things. I haven't considered what it means  
23 specifically for this document.

24 BY MR. BORDER:

25          Q.       Do you agree that this document,

1 November 1998 -- Strike that.

2 So you're unaware of what the

3 November 1998 -- Strike that.

4 So you're unaware of what the date on  
5 the front page of an RFC signifies, right?

6 MR. ZEILBERGER: Objection; outside  
7 the scope of direct.

8 THE WITNESS: I didn't say I'm  
9 unaware. I said you point me to it.  
10 There's a date here. And it doesn't say  
11 anything about how widely distributed it is  
12 at that date, but there is a date on that  
13 RFC. I'm not making any statements as to  
14 whether or not I know exactly what that date  
15 is referring to.

16 BY MR. BORDER:

17 Q. So based on your experience as a  
18 person of ordinary skill in the art, you don't  
19 know what the date at the top right of an RFC  
20 means?

21 MR. ZEILBERGER: Objection; outside  
22 the scope of direct.

23 THE WITNESS: The date is -- The date  
24 is the date on the document. It doesn't say  
25 anything -- Your earlier question was about

1           how do you get it. It doesn't say anything  
2           about how available the document may or may  
3           not have been by that date.

4 BY MR. BORDER:

5           Q.       But you agree that it would be  
6           available by that date?

7                   MR. ZEILBERGER: Objection; form.  
8           Objection; outside the scope of direct.

9                   THE WITNESS: I don't know to whom  
10          it's available at that time.

11 BY MR. BORDER:

12          Q.       I didn't ask to who it was available,  
13          Dr. Monroe. I asked whether you agree it would  
14          be available by November 1998.

15                   MR. ZEILBERGER: Objection; form.

16 BY MR. BORDER:

17          Q.       Can we at least agree on that point?

18                   MR. ZEILBERGER: Objection; form.  
19          Objection; outside the scope of direct.

20                   THE WITNESS: I have made no  
21          statements about that.

22 BY MR. BORDER:

23          Q.       I'm not asking whether you've made  
24          statements about that, Dr. Monroe. I'm asking  
25          whether as a person of ordinary skill, whether



1     you would agree that November 1998 on the front  
2     of this document means that it was available in  
3     November 1998.

4             MR. ZEILBERGER:  Objection; form.  
5     Objection; outside the scope of direct.

6             THE WITNESS:  Your question is loaded  
7     because it means a definition of what  
8     "available" is.  As I've said, I don't know,  
9     and I haven't given an assessment of how  
10    widely distributed or how available this  
11    particular document was then.

12  BY MR. BORDER:

13            Q.     How about any RFC document?  You told  
14  me you were familiar with RFCs, correct?

15            MR. ZEILBERGER:  Scott, if you  
16    continue this direct line of questioning,  
17    can you please point to where this is in his  
18    direct testimony?  Otherwise we're going to  
19    have to call the Board.

20            MR. BORDER:  Call the Board.

21            (Off the record.)

22  BY MR. BORDER:

23            Q.     All right.  Let's continue with your  
24  declaration 810 and 812.  So if you can open up  
25  your 810 declaration to Paragraph 37.  And if you

1 could also open up your 812 declaration to  
2 Paragraphs 45 and 46.

3 So let's start with 810. And at the  
4 end of Paragraph 37 you state: "Therefore, in my  
5 opinion, the first network device in Beser" --

6 A. Can you give me a second, please?

7 Q. Sure.

8 A. What paragraph are you referencing?

9 Q. For 810, let's look at 37. Let me  
10 know when you're ready. If you could read 38 as  
11 well. I have some questions about it.

12 A. Okay.

13 Q. So in Paragraphs 37, 38 and 39, you  
14 are analyzing whether or not Beser discloses the  
15 interception language in the '705 and '009  
16 patents, correct?

17 MR. ZEILBERGER: Objection; form. And  
18 mischaracterizes testimony.

19 THE WITNESS: Paragraphs 36, 37 and  
20 38 --

21 BY MR. BORDER:

22 Q. And 39.

23 A. And 39 are about the alleged request  
24 in Beser that meets the interception step. In  
25 particular, the argument -- the statements again

1 here made by Dr. Tamassia about what he believed  
2 this referred to and his understanding. And so  
3 applying his -- so in this context, it's applying  
4 his understanding to whether or not the alleged  
5 limitations are met.

6 Q. Okay. So I'm looking at Paragraph 38.  
7 You state: "Thus, one of skill would have  
8 understood that the packet received by trusted  
9 third-party network device 30 is intended for,  
10 and ordinarily received by, third-party network  
11 device 30 since the destination address of the  
12 packet contains the address of the trusted  
13 third-party network device 30."

14 Do you see that?

15 A. I'm looking for where you are  
16 referring to. You said 38?

17 Q. 38.

18 A. Uh-huh.

19 Q. Do you see that sentence I just read?

20 A. You need to repeat it.

21 Q. It begins with "Thus" after the  
22 citation.

23 A. Yes, uh-huh.

24 Q. You agree with me that "intended for"  
25 is not part of the petitioner's construction,

1 correct?

2 MR. ZEILBERGER: Objection;

3 foundation.

4 THE WITNESS: So again, that whole  
5 discussion is referencing Dr. Tamassia's  
6 cross-examination in which he said that his  
7 understanding was that it was  
8 referring to -- it could either be a  
9 scenario in which a request is intended for  
10 receipt at the destination other than a  
11 destination at which the request is  
12 intercepted, or a scenario in which a  
13 request ordinarily received by another  
14 entity and instead is received at the first  
15 entity.

16 So Paragraph 38 and 39, he's saying  
17 under that interpretation, Beser does not  
18 teach that either.

19 BY MR. BORDER:

20 Q. Okay. I'm going to ask my question  
21 again.

22 A. Uh-huh.

23 Q. You agree that the term "intended for"  
24 is not part of petitioner's proposed  
25 construction, correct?

1                   MR. ZEILBERGER: Objection; form.  
2                   Foundation.

3                   THE WITNESS: The words "intended for"  
4                   are not part of the proposed construction.

5 BY MR. BORDER:

6                   Q.       And the words "intended for" are not  
7                   part of the Board's construction in a related  
8                   proceeding, correct?

9                   MR. ZEILBERGER: Objection; form.  
10                  Foundation.

11                  THE WITNESS: Which related  
12                  proceeding?

13 BY MR. BORDER:

14                  Q.       Well, Dr. Monroe, at the bottom of  
15                  this page you state that in your opinion there is  
16                  no interception in Beser according to, and you  
17                  list a number of things. And you say the Board's  
18                  construction of the term in a related proceeding.

19                  A.       Because I believe the -- If I recall  
20                  correctly, the Board had adopted Apple's  
21                  construction at some point.

22                  Q.       Okay. So then you agree that  
23                  "intended for" is not part of the Board's  
24                  construction in a related proceeding, correct?

25                  A.       The words "intended for" are not part

1 of that construction.

2 Q. And the words "intended for" are not  
3 part of VirnetX's construction either, correct?

4 A. I don't say that they are.

5 Q. Okay. Just confirming.

6 Now, same questions. Do you agree  
7 that the words "orderly received by" are not part  
8 of petitioner's proposed construction, right?

9 A. I agree that these words, "orderly  
10 received by," do not appear in the proposed  
11 construction.

12 Q. And you're not saying that they're a  
13 requirement of the proposed construction, are  
14 you?

15 A. I made no statements about whether  
16 it's required. Again, 37, 38 and 39 are with  
17 respect to what Apple's expert said in -- in  
18 doing due diligence, looked at his interpretation  
19 and seeing whether or not that could be met by  
20 the specification. And as I say in Paragraph 38,  
21 I don't see how that can be met.

22 Q. You agree that the words "ordinarily  
23 received by" are also not part of patent owner's  
24 proposed construction, correct?

25 A. "Ordinarily received by" are not part

1 of the proposed construction.

2 Q. And you also agree that the words  
3 "ordinarily received by" are not part of  
4 petitioner's proposed construction, correct?

5 MR. ZEILBERGER: Objection; form.

6 THE WITNESS: Again, as far as I  
7 recall, they are not. I am responding here  
8 to the statements made by the expert for  
9 Apple, Dr. Tamassia.

10 BY MR. BORDER:

11 Q. But you agree that these statements  
12 were not made by the Board, correct?

13 A. And I don't say that they are.

14 Q. Well, these statements are the basis  
15 for your opinion that the Board's construction of  
16 the term in the related proceeding -- or that  
17 intercepting doesn't meet the Board's  
18 construction of the term in a related proceeding,  
19 correct?

20 MR. ZEILBERGER: Objection;  
21 mischaracterizes prior testimony.

22 BY MR. BORDER:

23 Q. Let me put it a different way. In  
24 analyzing whether the intercepting that's  
25 described in Beser satisfies the Board's

1 construction of that term in the related  
2 proceeding, you relied on words "intended for"  
3 and "ordinarily received by" to offer your  
4 opinion, correct?

5 MR. ZEILBERGER: Objection;  
6 mischaracterizes testimony.

7 THE WITNESS: Again, I relied on, in  
8 this part, the statements made by  
9 Dr. Tamassia and evaluated them. And I said  
10 under that, I don't see how it can -- these  
11 can be met.

12 BY MR. BORDER:

13 Q. But you have no analysis in here with  
14 respect to the Board's construction of the term,  
15 correct?

16 A. I said under his statements, this is  
17 just reflective that -- I see Beser does not  
18 express this. I have given no opinion about the  
19 Board's construction itself or anybody else's.

20 Q. So your opinion that it does not  
21 satisfy the Board's construction of the term in a  
22 related proceeding is based solely on  
23 Dr. Tamassia's testimony in this proceeding?

24 MR. ZEILBERGER: Objection;  
25 mischaracterizes testimony.



1           THE WITNESS: No. The statements made  
2           here in Paragraph 38 are saying that given  
3           his understanding, I don't see how any of  
4           those are met.

5 BY MR. BORDER:

6           Q. But you just agreed with me that the  
7           Board's construction does not include the terms  
8           "intended for" and "ordinarily received by,"  
9           correct?

10           MR. ZEILBERGER: Objection;  
11           mischaracterizes testimony.

12           MR. BORDER: It's an improper  
13           objection, Dan. Can you do a proper  
14           objection, please. Mischaracterizes the  
15           testimony is not a proper objection. Object  
16           to form. Object to foundation. Object to  
17           outside the scope.

18 BY MR. BORDER:

19           Q. Do you want me to repeat my question?

20           A. I would.

21           Q. Your analysis on whether or not Beser  
22           satisfies the intercepting step, or your analysis  
23           on whether or not Beser discloses the  
24           intercepting step in these patents is based on  
25           the words "intended for" and "ordinarily received

1 by," correct?

2 A. It's based on -- in Paragraph 38,  
3 Dr. Tamassia's understanding of what this means.

4 Q. So you don't base it on the actual  
5 Board's understanding of what that term means,  
6 correct?

7 MR. ZEILBERGER: Objection; form.

8 THE WITNESS: I made no statements  
9 about what the Board's interpretation of  
10 those terms are. He has an understanding,  
11 and given that understanding, I don't see  
12 how it meets receiving a request pertaining  
13 to a first entity and another entity under  
14 this pertaining -- under his analysis of  
15 pertaining. And so my conclusion is that  
16 Beser doesn't teach this.

17 BY MR. BORDER:

18 Q. And you haven't formed an opinion --  
19 You haven't formed your own opinion about whether  
20 Beser discloses the interception step, correct?  
21 In other words, your opinion about whether Beser  
22 discloses the interception step is based solely  
23 on Dr. Tamassia's testimony, correct?

24 A. In 810 and 812, the analysis on that  
25 front is with respect to Dr. Tamassia's

1 testimony.

2 Q. And so you have no independent opinion  
3 about whether or not Beser discloses that claim  
4 limitation, correct?

5 MR. ZEILBERGER: Objection; form.

6 THE WITNESS: As I said, I'm  
7 responding to comments raised by  
8 Dr. Tamassia, and my declaration here is  
9 addressing those comments.

10 BY MR. BORDER:

11 Q. And your declaration only addresses  
12 those comments, correct?

13 A. In Paragraph 38, with respect to his  
14 understanding.

15 Q. And in Paragraph 37 as well?

16 MR. ZEILBERGER: Objection; form.

17 THE WITNESS: As stated in 37, my  
18 conclusion is that Beser does not disclose a  
19 single scenario in which a tunnel request,  
20 as Dr. Tamassia puts it, is ordinarily  
21 received by another entity but is instead  
22 received by the first network device, nor  
23 does it disclose any scenario in which a  
24 tunnel request is intended for receipt at  
25 another entity but is instead received by

1           the first device.

2                   So as it clearly says here, in my  
3           opinion, the first device in Beser cannot  
4           perform interception under his  
5           understanding, which is reflected.

6   BY MR. BORDER:

7           Q.     It can't perform intercepting under  
8           what you claim his understanding is. But you do  
9           not have an understanding of what the term  
10          requires, correct?

11                  MR. ZEILBERGER: Objection; form.

12                  THE WITNESS: I made no opinion of  
13          what the term requires.

14                  MR. BORDER: Let's take a quick break.  
15          We might be done.

16                  (Recess taken.)

17   BY MR. BORDER:

18           Q.     Dr. Monroe, during this last break,  
19           or during any previous breaks, did you discuss  
20           the substance of your testimony with your  
21           counsel?

22           A.     I did not.

23                  MR. BORDER: We have no further  
24          questions.

25                  MR. PALYS: Let's take a break.

1 (Recess taken.)

2 MR. ZEILBERGER: We have no questions.

3 (Deposition adjourned at 3:30 p.m.)

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## ACKNOWLEDGMENT OF DEPONENT

I, FABIAN MONROSE, have read or have had the foregoing testimony read to me and hereby certify that it is a true and correct transcription of my testimony with the exception of any attached corrections or changes.

\_\_\_\_\_  
FABIAN MONROSE

☐ No corrections

☐ Correction sheet(s) enclosed

SUBSCRIBED AND SWORN TO BEFORE ME, the undersigned authority, by the witness, FABIAN MONROSE, on this the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

C E R T I F I C A T E

DISTRICT OF COLUMBIA

I, JOHN L. HARMONSON, a Notary Public  
within and for the District of Columbia, do  
hereby certify:

That FABIAN MONROSE, the witness  
whose deposition is hereinbefore set forth, was  
duly sworn by me and that such deposition is a  
true record of the testimony given by such  
witness.

I further certify that I am not related  
to any of the parties to this action by blood or  
marriage; and that I am in no way interested in  
the outcome of this matter.

IN WITNESS WHEREOF, I have hereunto set  
my hand this 8th day of March, 2016.

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JOHN L. HARMONSON, RPR

My commission expires: 11/14/20

----- I N D E X -----

WITNESS	PAGE
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FABIAN MONROSE	
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Examination by Mr. Border	4
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----- EXHIBITS -----

(No new exhibits identified)



## ERRATA SHEET

CASE: Apple Inc. v. VirnetX Inc.

DATE: March 3, 2016

WITNESS: Fabian Monrose, Ph.D.

Reason Codes:

1. To clarify the record.

2. To conform to the facts.

3. To correct transcription errors.

Pg.	Ln.	Now Reads	Should Read	Reason
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\_\_\_\_\_  
Signature of Deponent

SUBSCRIBED AND SWORN BEFORE ME

THIS \_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_  
(Notary Public) MY COMMISSION EXPIRES: \_\_\_\_\_