In The Matter Of:

UMG RECORDINGS v. MARIE LINDOR

DOUGLAS JACOBSON February 23, 2007

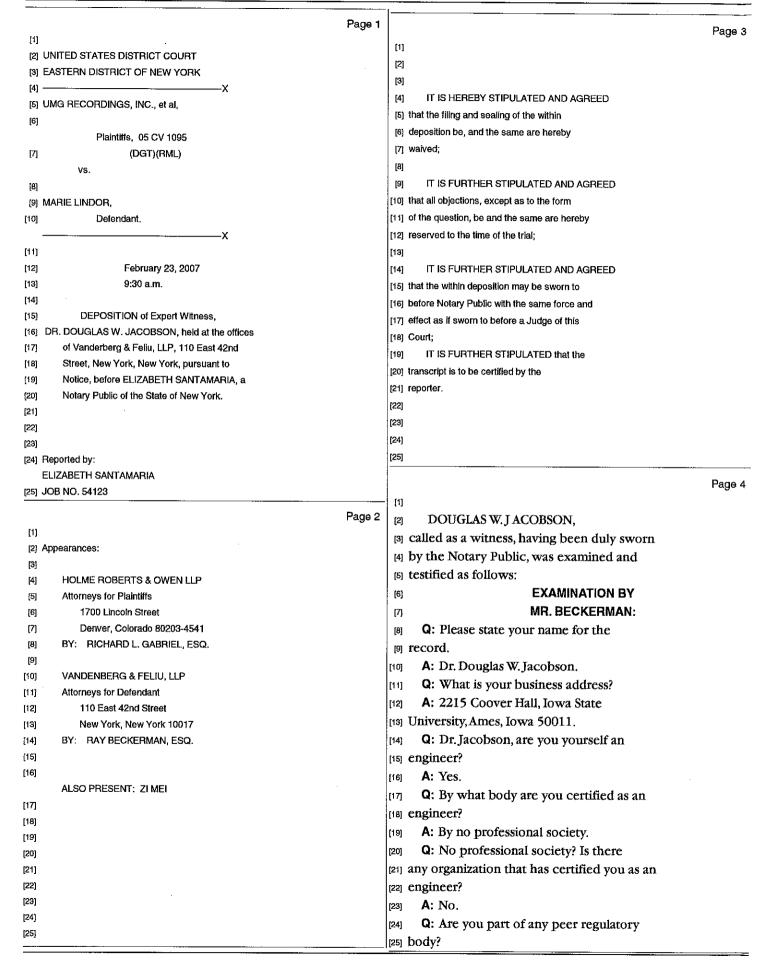
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Original File LS022307.TXT, 158 Pages Min-U-Script® File ID: 3614328965

Word Index included with this Min-U-Script®

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Dana F	
Page 5 [1] Jacobson	Page i
21 A: I don't quite understand what you	
g mean by —	[2] Lack of foundation.
4] Q: Are you part of any body the members	[3] A: I don't — since I'm not on the
4 1 1	[4] marketing side, I really can't testify to why a
	[5] particular client buys the product.
• •	[6] Q: Have you been quoted in press
[7] you are —	[7] releases issued by the company as to reasons to buy
[8] Q: A lawyer, an architect, an	(8) the product?
g accountant.	[9] A: Yes.
I thought an engineer had to be	[10] Q: And in those press releases have you
certified by a peer-regulated body.	[11] stated that one of the reasons to buy the product is
A: To be called a professional engineer	[12] to avoid lawsuits?
iaj they do.	[13] A: I very well could have. I do not —
Q: So are you not a professional	[14] without seeing one of the press releases.
is engineer?	[15] Q : Is one of the reasons to buy these
A: I do not have a PE license.	[16] products to avoid copyright infringement lawsuits?
Q : You are the founder of the Palisade	MR. GABRIEL: Objection to form.
18] Systems?	[18] A: That would be a reason to buy one of
19] A: That's correct.	[19] the products.
Q: What other titles do you hold within	[20] Q: And have you specifically referred to
that organization?	[21] lawsuits by the RIAA as one of the types of lawsuits
22] A: Chief technology officer.	[22] that they could avoid by buying these products?
23] Q: And are you a member of the board of	[23] A: To my recollection, I have not.
24] directors?	[24] Q : Is it true that the RIAA backs the
25] A : Yes.	[25] software that was co-licensed between your company
Page 6	Page
[1] Jacobson	[1] Jacobson
[2] Q : Are you a shareholder?	[2] and Audible Magic?
[3] A: Yes.	MR. GABRIEL: Objection to form.
[4] Q: What percentage of the shares of that	[4] Lack of foundation.
[5] company do you own?	[5] A: I do not know what arrangement
[6] A: I believe it's about 3 percent.	[6] Audible Magic and the RIAA have entered into.
[7] Q : Palisade Systems sells software	Q: Are you aware that an officer of
products to universities, businesses and other	[8] Audible Magic was introduced to government officials
institutions that maintain networks; is that	[9] in Washington by representatives of the RIAA?
10] correct?	[10] A: No.
11] A: Yes.	[11] MR. BECKERMAN: I would like to
Q: Do these products include products	[12] mark as Defendant's 1 a press release from
which are intended to combat file sharing through —	[13] Palisade Systems, Inc. bearing the
14) we are going to be using that term a lot.	14 headline "Peer-to-Peer File Sharing
15] Withdrawn,	[15] Struggles Intensify in Universities."
These products include products that	[16] (Defendant's Exhibit 1, press release
are intended to combat peer-to-peer file sharing of	[17] from Palisade Systems, Inc. bearing the
18] copyrighted works; is that correct?	[18] headline "Peer-to-Peer File Sharing
19] MR. GABRIEL: Objection to form.	[19] Struggles Intensify in Universities," marked
You can answer the question.	
21] A: Yes.	[20] for identification, as of this date.)
22] Q: Is one of the reasons that these	[21] Q: Is this press release genuine?
	[22] A: It was released by the company.
on organizations buy these products the avoidance of	
23] organizations buy these products the avoidance of	[23] MR. BECKERMAN: I would like to
23] organizations buy these products the avoidance of 24] lawsuits? 25] MR. GABRIEL: Objection to form.	mark as Exhibit 2 a one-page press release property of Palisade Systems, Inc. dated April 21,

Page 9	Page 11
[i] Jacobson	[1] Jacobson
[2] 2004. The headline is "Instantly Stop	[2] A: Since I'm not a lawyer, I'm not sure
[3] Illegal P2P With PacketSure 3."	[3] I can comment on being a liability and the absolute
[4] (Defendant's Exhibit 2, one-page	[4] elimination of it.
[5] press release of Palisade Systems, Inc.	[5] Q: I call your attention to the ninth
[6] dated April 21, 2004, marked for	[6] paragraph, starting with the word "instead."
[7] identification, as of this date.)	[7] A: Okay.
[8] Q: Is this press release genuine?	[8] Q: Do you agree with that paragraph?
[9] A: Yes. It was released by the company.	MR. GABRIEL: Objection to form.
[10] Q: Going down to the third paragraph,	10 Lack of foundation.
which purports to have a quotation from you, would	[11] A: Yes, I would agree with that.
[12] you tell us if that quotation is accurate?	ISD DESIGNATION - A 144
[13] A: Yes.	[12] MR. BECKERMAN: I would like to
MR. BECKERMAN: I would like to	[14] April 21, 2004, of C/net News.Com.,
[15] mark as Exhibit 3 a two-page article dated	
[16] April 19, 2004 by David Chappelle entitled	[15] entitled "New Tool Designed to Block Song
17] "Newest PacketHound release eliminates	[16] Swaps."
[18] illegal trading of copyrighted files."	(Defendant's Exhibit 4, C/net
(19) (Defendant's Exhibit 3, two-page	[18] News.com article dated April 21, 2004,
[20] article by David Chappelle dated April 19,	[19] marked for identification, as of this date.)
[21] 2004, marked for identification, as of this	[20] Q: Do you agree with the statement in
	[21] the second paragraph, the first paragraph that's not
[23] Q: Who is Steven Brown?	[22] in bold, which says that the song filtering software
[24] A: Steven Brown, what was his title? He	[23] is backed strongly by the Recording Industry
25) was our marketing individual at Palisade. I don't	[24] Association of America, RIAA?
es, was our marketing intrividual at Lansace. I don't	MR. GABRIEL: Objection to form.
Page 10	Page 12
[1] Jacobson [2] remember his exact title.	[1] Jacobson
	[2] Lack of foundation.
Q: Was he authorized to speak for Palica de Suprementa the graces?	[3] A: I have no firsthand knowledge of
[4] Palisade Systems to the press?	[4] whether or not the RIAA has strongly backed Audible
[5] A: Yes.	[5] Magic software.
[6] Q: I direct you to the fifth paragraph	[6] Q: Do you have any reason to believe
[7] and ask you whether that is an accurate statement of	[7] that they have?
[8] something that was said by Steven Brown.	[8] MR. GABRIEL: Object to the form.
[9] MR. GABRIEL: Objection, Lack of	19 A: Could you rephrase the question?
[10] foundation.	[10] Q : What is the problem with the
[11] A: I have no way of knowing firsthand	[11] question?
[12] that Steven Brown said that.	[12] A: Restate the question and then I will
[13] Q: Do you agree with the statement "Some	[13] tell you.
[14] P2P applications can evade certain security tools"?	[14] Q : You said you had no firsthand
[15] A: Yes.	[15] knowledge. Now I am asking you whether you have any
[16] Q : Do you agree with the statement of	[16] reason to believe that the RIAA did, in fact, back
[17] Mr. Chappelle contained in the third paragraph that	[17] the software strongly.
[18] "Detecting and stopping copyrighted materials from	[18] A: I have no firsthand knowledge that
[19] being shared illegally eliminates the liability	[19] they have.
[20] faced by organizations associated with file	[20] Q : Did you ever see this article?
[21] sharing"?	A: I don't recall seeing the article on
[22] MR. GABRIEL: Objection to form.	1221 the web.
·	[22] the web. [23] Q : Did you see any articles or press
 [22] MR. GABRIEL: Objection to form. [23] Lack of foundation. [24] A: Can you repeat the question? 	Q: Did you see any articles or press
[23] Lack of foundation.	

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[1] Jacobson	[1] Jacobson
[2] A: I don't recall seeing any.	[2] Q: Do you know what ZDNet is?
Q: So this is the first you've heard of	[3] A: Yeah.
[4] it? Is that your testimony?	[4] Q: What is ZDNet?
[5] MR. GABRIEL: I object to the form.	A: It is an online publication, is my
[6] He said what he said.	[6] understanding.
[7] A: I have no firsthand knowledge that	[7] Q : Have you ever used ZDNet for anything
[8] they have strongly backed — I don't have any	[8] other than reading?
g firsthand knowledge that they strongly backed the	S A: Personally, not to my knowledge I
og software, Audible Magic software.	[10] haven't.
Q : Do you have any other knowledge that	
22 they backed it?	•
A: Not to my recollection.	[12] from ZDNet?
4 Q: Going down to the second paragraph	[13] A: Not that I can recall.
is that's not in bold and the sentences which purport	[14] Q: Have you never heard of ZDNet as a
6) to quote you, would you tell me whether those are	[15] source of software?
7 accurate quotes.	[16] A: Not that I recall.
18] A: Yeah.	[17] Q: And what is ZDNet News?
A 17	[18] A: My understanding is it's an online
	publication that I believe they send out to e-mails
	[20] to the subscribers.
· · · · · · · · · · · · · · · · · · ·	[21] Q : Have you ever had any dealings with
executives helping to guide Audible Magic CEO Vance	[22] the University of Rochester?
Ikezoye around federal government offices advocating	[23] A: Define the university.
the song blocking technology as a tool for stopping	[24] Q: Excuse me?
25] copyright infringement on file swapping networks?	25] A: I don't quite understand when you say
Page 14	Page 16
[1] Jacobson	[1] Jacobson
MR. GABRIEL: Object to the form of	[2] the university.
g the question.	[3] Q: Have you ever had any dealings with
A: Could you please read the question	[4] officials of the University of Rochester?
[5] back again.	A: Personally I have not, no.
[6] (Record read.)	•
	[6] Q: Has Palisade Systems?
[7] A: I have no knowledge that that took	[6] Q: Has Palisade Systems? A: Personally I have no knowledge of
-	A: Personally I have no knowledge of
[8] place.	A: Personally I have no knowledge of [8] that.
[8] place. [9] Q : What is the relationship, if any,	 [7] A: Personally I have no knowledge of [8] that. [9] Q: What do you mean personally you have
[8] place. [9] Q: What is the relationship, if any, 10] between the RIAA and Palisade Systems, Inc.?	A: Personally I have no knowledge of that. Q: What do you mean personally you have no knowledge of that? Do you have some other kind
[8] place. [9] Q: What is the relationship, if any, 10] between the RIAA and Palisade Systems, Inc.? A: There is no relationship.	A: Personally I have no knowledge of that. Q: What do you mean personally you have no knowledge of that? Do you have some other kind of secondhand knowledge of it?
[8] place. [9] Q: What is the relationship, if any, [10] between the RIAA and Palisade Systems, Inc.? [11] A: There is no relationship. [12] Q: Has Palisade Systems, Inc. had any	A: Personally I have no knowledge of that. Personally I have no knowledge of that. Personally I have no knowledge of that. Personally you have the kind the personally you have some other kind the personally you have the personally I have no knowledge of that.
[8] place. [9] Q: What is the relationship, if any, 10] between the RIAA and Palisade Systems, Inc.? A: There is no relationship. 12] Q: Has Palisade Systems, Inc. had any 13] dealings with any agents of the Recording Industry	A: Personally I have no knowledge of [8] that. [9] Q: What do you mean personally you have [10] no knowledge of that? Do you have some other kind [11] of secondhand knowledge of it? [12] A: Not that I recall, but I do not keep [13] close tabs of what the marketing or the sales force
[8] place. [9] Q: What is the relationship, if any, 10] between the RIAA and Palisade Systems, Inc.? 11] A: There is no relationship. 12] Q: Has Palisade Systems, Inc. had any 13] dealings with any agents of the Recording Industry 14] Association of America?	[7] A: Personally I have no knowledge of [8] that. [9] Q: What do you mean personally you have [10] no knowledge of that? Do you have some other kind [11] of secondhand knowledge of it? [12] A: Not that I recall, but I do not keep [13] close tabs of what the marketing or the sales force [14] does.
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Q: What is the relationship, if any, between the RIAA and Palisade Systems, Inc.? A: There is no relationship. Q: Has Palisade Systems, Inc. had any dealings with any agents of the Recording Industry Association of America? A: I believe that our chief operating officer had discussions with the RIAA back in the early 2000s. MR. BECKERMAN: I would like to mark as Exhibit 5 a press release from	[7] A: Personally I have no knowledge of [8] that. [9] Q: What do you mean personally you have [10] no knowledge of that? Do you have some other kind [11] of secondhand knowledge of it? [12] A: Not that I recall, but I do not keep [13] close tabs of what the marketing or the sales force [14] does. [15] Q: Has Palisade Systems had any dealings [16] with the University of Rochester? [17] A: Not that I recall. [18] Q: Did the provost of the University of [19] Rochester attend a demonstration of the Audible
[8] place. [9] Q: What is the relationship, if any, [10] between the RIAA and Palisade Systems, Inc.? [11] A: There is no relationship. [12] Q: Has Palisade Systems, Inc. had any [13] dealings with any agents of the Recording Industry [14] Association of America? [15] A: I believe that our chief operating [16] officer had discussions with the RIAA back in the [17] early 2000s. [18] MR. BECKERMAN: I would like to [19] mark as Exhibit 5 a press release from [20] ZDNet entitled "File-Swap Killer Grabs	A: Personally I have no knowledge of that. [9] Q: What do you mean personally you have [10] no knowledge of that? Do you have some other kind [11] of secondhand knowledge of it? [12] A: Not that I recall, but I do not keep [13] close tabs of what the marketing or the sales force [14] does. [15] Q: Has Palisade Systems had any dealings [16] with the University of Rochester? [17] A: Not that I recall. [18] Q: Did the provost of the University of [19] Rochester attend a demonstration of the Audible [20] Magic software at RIAA headquarters in January of
[8] place. [9] Q: What is the relationship, if any, 10] between the RIAA and Palisade Systems, Inc.? A: There is no relationship. Q: Has Palisade Systems, Inc. had any 13] dealings with any agents of the Recording Industry 14] Association of America? A: I believe that our chief operating 16] officer had discussions with the RIAA back in the 17] early 2000s. 18] MR. BECKERMAN: I would like to 19] mark as Exhibit 5 a press release from 20] ZDNet entitled "File-Swap Killer Grabs 21] Attention."	A: Personally I have no knowledge of that. [9] Q: What do you mean personally you have [10] no knowledge of that? Do you have some other kind [11] of secondhand knowledge of it? [12] A: Not that I recall, but I do not keep [13] close tabs of what the marketing or the sales force [14] does. [15] Q: Has Palisade Systems had any dealings [16] with the University of Rochester? [17] A: Not that I recall. [18] Q: Did the provost of the University of [19] Rochester attend a demonstration of the Audible [20] Magic software at RIAA headquarters in January of [21] 2004?
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[8] place. [9] Q: What is the relationship, if any, 10] between the RIAA and Palisade Systems, Inc.? A: There is no relationship. Q: Has Palisade Systems, Inc. had any 13] dealings with any agents of the Recording Industry 14] Association of America? A: I believe that our chief operating 16] officer had discussions with the RIAA back in the 17] early 2000s. 18] MR. BECKERMAN: I would like to 19] mark as Exhibit 5 a press release from 19] ZDNet entitled "File-Swap Killer Grabs 19] Attention."	[7] A: Personally I have no knowledge of [8] that. [9] Q: What do you mean personally you have [10] no knowledge of that? Do you have some other kind [11] of secondhand knowledge of it? [12] A: Not that I recall, but I do not keep [13] close tabs of what the marketing or the sales force [14] does. [15] Q: Has Palisade Systems had any dealings [16] with the University of Rochester? [17] A: Not that I recall. [18] Q: Did the provost of the University of [19] Rochester attend a demonstration of the Audible [20] Magic software at RIAA headquarters in January of [21] 2004? [22] A: Not that I know of, but

Page 17	r age 17
[2] Washington circles?	(1) Jacobson
[3] MR. GABRIEL: Object to form. Lack	You can answer the question.
[4] of foundation.	[3] A: Which application?
	Q: The same one we've just been talking
[5] A: I have no knowledge of what the RIAA [6] has done to help Audible Magic.	5 about. The application designed by Audible Magic,
	[6] which was cross-licensed to Palisade Systems.
7) Q: Is it a fact that Audible Magic	A: The Audible Magic code that was
B entered into a cross-licensing agreement with	[8] licensed by Palisade does not block traffic.
[9] Palisade Systems, Inc.?	[9] Q: What does it do?
[10] A: That's correct.	[10] A: It identifies traffic content.
Q: What was the software designed to do?	[11] Q : Is it able to identify song files?
[12] A: What software?	[12] A: It is able to identify — it is able
(13) Q: Song filtering software created by	[13] to identify —
[14] Audible Magic, software that was mentioned in the	[14] It is able to analyze files and
[15] press releases I just showed you.	[15] determine if those files match the signatures that
[16] A: Audible Magic's software is designed	[16] are stored in their database.
[17] to examine audio data and determine if it matches a	[17] Q: And was it marketed by Palisade
[18] database of copyrighted materials.	[18] Systems as something that could identify and stop
[19] MR. BECKERMAN: Would you read back	[19] illegal file trades in real time without any
[20] the question.	[20] requirement for individual users to be identified?
[21] (Record read.)	[21] A: Yes, their code coupled with our
[22] Q : Do you feel you have answered that	[22] code.
[23] question? [24] A: I answered the question of what	[23] Q: And was it marketed by Palisade
[24] A: I answered the question of what [25] Audible Magic software was designed to do.	[24] Systems as something that could block specific
[25] Fiddible Magic Software was designed to do.	[25] illegal file trades?
Page 18	. 490 20
[1] Jacobson	[1] Jacobson
[1] Jacobson [2] Q: Is it song filtering software?	[1] Jacobson [2] A: Yes.
[2] Jacobson [2] Q: Is it song filtering software? [3] MR. GABRIEL: Object to the form.	[1] Jacobson [2] A: Yes. [3] Q: Now, you are the chief technology
Jacobson Q: Is it song filtering software? MR. GABRIEL: Object to the form. A: Define what you mean by filtering.	[1] Jacobson [2] A: Yes. [3] Q: Now, you are the chief technology [4] officer of Palisade?
Jacobson Q: Is it song filtering software? MR. GABRIEL: Object to the form. A: Define what you mean by filtering. Q: What is filtering? Withdrawn.	[1] Jacobson [2] A: Yes. [3] Q: Now, you are the chief technology [4] officer of Palisade? [5] A: That's correct.
Jacobson Q: Is it song filtering software? MR. GABRIEL: Object to the form. A: Define what you mean by filtering. Q: What is filtering? Withdrawn. Is it your testimony here under oath	[1] Jacobson [2] A: Yes. [3] Q: Now, you are the chief technology [4] officer of Palisade? [5] A: That's correct. [6] Q: So you would be knowledgeable about
Jacobson Q: Is it song filtering software? MR. GABRIEL: Object to the form. A: Define what you mean by filtering. Q: What is filtering? Withdrawn. Is it your testimony here under oath you do not know what the word "filtering" means?	[1] Jacobson [2] A: Yes. [3] Q: Now, you are the chief technology [4] officer of Palisade? [5] A: That's correct. [6] Q: So you would be knowledgeable about [7] technology work between your company and Audible
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[1] Jacobson	[1] Jacobson	
2] that you have no idea how the RIAA reacted to this	[2] MR. GABRIEL: No, no.	
work that you are doing?	[3] THE WITNESS: Would you repeat the	
A: That's correct.	4) question.	
Q: Have the press releases issued by	[5] (Record read.)	
Palisade Systems referred to the RIAA?	[6] MR. GABRIEL: My objection was he	
MR. GABRIEL: I object to the form.	[7] just answered.	
a Lack of foundation.	[8] You can answer it again.	
A: I'm sure that some of our press	(9) A: Again, the computer registered to	
y releases have probably mentioned the RIAA.	[10] Marie Lindor had made available songs through	
Q: In what capacity?	[11] peer-to-peer software, therefore making them	
MR. GABRIEL: Same objections.	[12] available.	
A: I don't recall any direct quotes out	[13] MR. BECKERMAN: I am going to say	
of any of the press releases.	[14] this once and I am not going to repeat it.	
Q: Did you ever meet with the CEO of	[15] We are here, we have a limited	
a Audible Magic?	[16] time. I am on page 1 of about 40 pages	
A: I recall meeting him in just a short	[17] of notes. If this kind of gamesmanship	
meeting when he visited Palisade, but I was not part	[18] is going to be continued, we will never	
of the negotiations.	[19] get through even a fraction of this	
oj Q: Did you discuss the software?	201 deposition and we will just have to	
MR. GABRIEL: The question is	[21] continue it. But I have no intention of	
y whether Dr. Jacobson talked to the CEO	[22] accepting that type of answer.	
about the software? I'm just clarifying	If that's the way you are going	
4) the question.	[24] to play this, then we will be here all	
Q: Did you discuss the software?	[25] day. It calls for a "yes" or "no"	
Page 22		Page 2
Jacobson	[i] Jacobson	r age z
MR. GABRIEL: I object to the form.	[2] answer and there is no reason to be	
A: I can't recall whether I did or	g playing games in answering a question	
4] didn't.	4) that was not asked. He will be asked	
g: Have you formed an opinion as to	[5] questions that may relate to what his	
whether Marie Lindor personally uploaded any	[6] answer was, but he has not answered the	
7] copyrighted files to anyone?	7] question that was asked of him and it	
A: The computer whose IP address has	(a) calls for a "yes" or "no" and I expect	
p been identified as being registered to Ms. Lindor	[9] an answer to it.	
na has been shown to have made songs available,	[10] MR. GABRIEL: It is a nice speech,	
1] copyrighted material available to the internet	Ray. The witness answered the question.	
2] community through peer-to-peer software.	[12] I object to the characterization of	
3 MO MR. BECKERMAN: I move to strike the	[13] gamesmanship. Because you don't like the	
4] answer as nonresponsive.	[14] answer doesn't mean it is gamesmanship.	
Would you read back the question.	[15] The witness has answered, he has his	
6] (Record read.)	[16] opinions. And if you want to argue with	
7] MR. GABRIEL: Is there a question	[17] me or the witness, we will be here all day	
e pending?	[18] or we will leave.	
MR. BECKERMAN: Yes. I'm waiting	[19] MR. BECKERMAN: I am going to ask	
of for an answer to the question. It calls	[20] the question one more time and if I do not	
for a "yes" or "no" answer.	[21] get an answer to it, we will eventually	
MR. GABRIEL: I object. It does	[22] seek a ruling on that and we are going to	
not. He answered the question.	[23] seek a ruling on all questions that we do	
MR. BECKERMAN: Are you directing	[24] not receive answers to, all questions to	
is him not to answer the question?	[25] which we do not receive answers to, and	
min not to anower the question:	[25] WHICH WE GO HOL TECEIVE ANSWERS TO, AND	

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[1] Jacobson	[1] Jacobson
then we will have a continued deposition. MR. GABRIEL: You reserve whatever	[2] Q: Do you not know what the word
	[3] "inculpated" means?
[4] you want, Ray, and seek whatever rulings	[4] A: That's correct.
[5] you want. The witness answered the	[5] Q : Are you familiar with the word
[6] question and I submit this is browbeating	[6] "exculpate"?
[7] the witness into trying to get the witness	[7] A: No.
(a) by arguing with me. This is not serving	[8] Q : What is your educational background?
9 any purpose.	A: Computer engineering.
[10] BY MR. BECKERMAN:	[10] Q: Well, which school did you attend?
[11] RL Q. Have you formed an opinion as to	[11] Did you get a Bachelor's degree?
[12] whether Marie Lindor personally uploaded any	[12] A: Yes.
[13] copyrighted files, "yes" or "no"?	[13] Q: What school?
[14] MR. GABRIEL: Objection. Form.	[14] A: Iowa State University, science and
[15] Asked and answered twice.	[15] technology.
[16] Q: Dr. Jacobson, would you please answer	[16] Q: When did you graduate?
[17] the question.	[17] A: With which degree?
[18] A: I have twice already answered the	[18] Q: When did you get your Bachelor's
[19] question.	[19] degree?
[20] Q: Are you refusing to answer the	[20] A : 1980.
[21] question?	[21] Q : Do you have any other degrees?
[22] MR. GABRIEL: Objection.	[22] A: I hold a Master of Science in
[23] Argumentative. He answered the question.	[23] electrical engineering.
[24] MR. BECKERMAN: We will seek a	[24] Q : When did you get that?
[25] ruling on that.	[25] A : 1982.
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[1] Jacobson	[1] Jacobson
[2] RL Q. Have you personally formed an opinion	[2] Q : Any other degrees?
[3] as to whether Marie Lindor personally downloaded any	[3] A: A Doctor of Philosophy, Ph.D., in
[4] copyrighted files?	[4] computer engineering.
[5] A: The computer whose IP address who has	[5] Q: When was that?
[6] been identified as belonging to Marie Lindor made	[6] A : 1985.
77 copyrighted material available through peer-to-peer	[7] Q: And you are associate professor at
[8] software — made the material available through	[8] Iowa State University?
[9] peer-to-peer software.	[9] A: That is correct,
[10] MR. BECKERMAN: We also will seek a	[10] Q : And you do not know what the word
[11] ruling on that and we will seek a ruling	[11] "exculpate" means?
[12] on all follow-up questions which would	[12] A: That's correct.
[13] have resulted from a "yes" or "no" answer.	[18] Q : Based upon your examination of the
[14] MO I move to strike the nonresponsive	[14] hard drive which you examined in this case, what
[15] answer that was given.	[15] evidence did you find that supported or would
[16] Q : Based upon your examination of the	[16] support a conclusion that Marie Lindor had
[17] hard drive which you examined, what evidence did you	personally uploaded any files?
[18] find that inculpated Marie Lindor personally?	[18] A: The hard drive that I examined showed
[19] MR. GABRIEL: Object to the form.	[19] no evidence of any peer-to-peer software or MP3
MODEL CAPITE OF FORM MATTERS	[20] music files.
[20] Lack of foundation.	
[21] A: Would you please define the	[21] Q : So is it correct to say that there
A: Would you please define the second-to-last word.	[22] was nothing on the hard drive that tended to prove
A: Would you please define the second-to-last word. Q: "Her"?	was nothing on the hard drive that tended to prove that she had uploaded or downloaded anything?
A: Would you please define the second-to-last word. Q: "Her"? A: No, "inculpated." Would you please	22] was nothing on the hard drive that tended to prove 23] that she had uploaded or downloaded anything? 24] A: There was nothing on the hard drive
A: Would you please define the second-to-last word. Q: "Her"?	was nothing on the hard drive that tended to prove that she had uploaded or downloaded anything?

	Pogo 20		
[1]	Page 29 Jacobson	ra.,	Page 31 Jacobson
[2]	Q: Hypothetically, had you discovered	[1]	
	KaZaA software and song files or remnants of KaZaA		sharing; is that correct? A: That's correct, as I testified or as
	software or song files resembling those that had	[3]	
	appeared in a screen shot, would that have tended to	l	I — in one of my documents, yes.
	support a finding that she had downloaded or	[5]	Q: Are you aware of any evidence of
	uploaded copyrighted files?		anything that would point to Marie Lindor personally
[8]	A: That would have supported a claim		having done something as opposed to any other
	that that computer was used to make files available.		person?
[10]	Q: So it would have supported a finding	[9]	MR. GABRIEL: Objection to the
-	that the computer whose hard drive you examined had		form. Lack of foundation.
	been used for that purpose?	[11]	A: I have examined evidence that shows
	A: Correct.	1	that the computer registered to the IP address
[13]		1	belonging to Marie Lindor was used to share
[14]	Q: It would not have supported a	[14]	copyrighted material.
	finding, would it, as to whether Marie Lindor	[15]	Q: But other than that, other than the
	herself had used those programs or files?	F	fact that the computer was used, as you say, is
[17]	MR. GABRIEL: Object to the form.		there any evidence to show what natural person, what
-	Lack of foundation.	[18]	individual was the one who actually did it?
[19]	THE WITNESS: Please read it back.	[19]	A: No.
[20]	(Record read.)	[20]	Q: Do you know what processes and
[21]	A: That's correct.	[21]	procedures MediaSentry employed?
[22]	Q: Hypothetically, had you discovered	[22]	A: I do not know the inner works of
	substantial deletions, would that have supported a	[23]	MediaSentry processes and procedures.
	finding that there had been the use of KaZaA file	[24]	Q : Do you know what software they used?
[25]	sharing to download or upload copyrighted files?	[25]	A: No.
	Page 30		Page 32
[1]	Jacobson	[1]	Jacobson
[2]	MR. GABRIEL: Object to the form.	[2]	Q : Do you know if it was well known
[3]	Lack of foundation.	[3]	off-the-shelf software or if it was proprietary
[4]	A: Had I found substantial deletions of	[4]	software?
	the KaZaA software and music files, that would have	[5]	A: Again, I do not know the inner
[6]	supported it.	[6]	workings of MediaSentry's operations.
[7]	Q: Had you discovered that the hard	[7]	Q: Do you know if their software had
	drive had been entirely reformatted would that, in		been peer-reviewed or published or anything like
	your view, have supported a finding that the	[9]	that?
	computer had been used for uploading or downloading	[10]	A: Not that I'm aware of.
		[11]	Q: Have you ever testified as an expert
[12]	MR. GABRIEL: Same objections.	[12]	in a deposition?
[13]	A: Had the computer been reformatted,	[13]	A: No.
		[14]	Q: Have you ever testified as an expert
F4 F3	have drawn as to what was on the computer prior to	[15]	in a trial?
	Comments In a		A: No.
[16]	formatting.	[16]	
[16] [17]	Q: Hypothetically, had you discovered	[17]	Q: Have you ever testified as an expert
[16] [17] [18]	Q: Hypothetically, had you discovered substantial defragmentation of the hard drive, would	[17]	Q : Have you ever testified as an expert in any other type of proceeding?
[16] [17] [18] [19]	Q: Hypothetically, had you discovered substantial defragmentation of the hard drive, would that have supported a finding that the computer had	[17] [18] [19]	Q: Have you ever testified as an expert in any other type of proceeding?A: I testified in front of a school
[16] [17] [18] [19] [20]	Q: Hypothetically, had you discovered substantial defragmentation of the hard drive, would that have supported a finding that the computer had been used to upload or download copyrighted works?	[17] [18] [19]	Q: Have you ever testified as an expert in any other type of proceeding?A: I testified in front of a school board.
[16] [17] [18] [19] [20] [21]	Q: Hypothetically, had you discovered substantial defragmentation of the hard drive, would that have supported a finding that the computer had been used to upload or download copyrighted works? MR. GABRIEL: Same objection.	[17] [18] [19]	Q: Have you ever testified as an expert in any other type of proceeding?A: I testified in front of a school board.Q: As an expert?
[16] [17] [18] [19] [20] [21]	Q: Hypothetically, had you discovered substantial defragmentation of the hard drive, would that have supported a finding that the computer had been used to upload or download copyrighted works? MR. GABRIEL: Same objection. A: If that's all I had found, no, that	[17] [18] [19] [20]	Q: Have you ever testified as an expert in any other type of proceeding?A: I testified in front of a school board.
[16] [17] [18] [19] [20] [21]	Q: Hypothetically, had you discovered substantial defragmentation of the hard drive, would that have supported a finding that the computer had been used to upload or download copyrighted works? MR. GABRIEL: Same objection. A: If that's all I had found, no, that would not have supported.	[17] [18] [19] [20] [21]	 Q: Have you ever testified as an expert in any other type of proceeding? A: I testified in front of a school board. Q: As an expert? A: Yes. Q: On what subject?
[16] [17] [18] [19] [20] [21] [22] [23] [24]	Q: Hypothetically, had you discovered substantial defragmentation of the hard drive, would that have supported a finding that the computer had been used to upload or download copyrighted works? MR. GABRIEL: Same objection. A: If that's all I had found, no, that	[17] [18] [19] [20] [21] [22] [23]	 Q: Have you ever testified as an expert in any other type of proceeding? A: I testified in front of a school board. Q: As an expert? A: Yes.

Page	33 Page 35
[1] Jacobson	[1] Jacobson
[2] Q : There was no judge?	[2] to do a forensic examination of a hard drive?
[3] A: No.	[3] A: Again, I did it with no compensation.
[4] Q: There was no arbitrator or judicial	[4] I do all my forensic exams for law enforcement
[5] type of person conducting it? It was just a school	[5] through the Iowa State University police department.
[6] board?	[6] However, they take in cases from other
[7] A: Yes.	77 jurisdictions. I don't always know the jurisdiction
(B) Q: Has any judge or jury ever found your	(a) that brought the case in.
p methodology to be unreliable?	[9] Q: And they have never used you as a
[10] A: I've never been in front of a judge,	[10] witness?
[11] so no.	[11] A: No. We never — they've always
[12] Q: Has any judge or jury ever found your	[12] settled.
[13] methodology to be reliable?	[13] Q: Apart for doing things for people at
[14] A: Again, I've never been in front of a	[14] Iowa State University how many times have you
[15] judge.	[15] been — and apart from the RIAA, how many hard
[16] Q : Has anyone other than the RIAA ever	[16] drives have you done forensic examinations of?
[17] hired you to do a forensic examination of a hard	[17] A: By outside the university, do you
[18] drive?	[18] also mean outside the Iowa State Police Department?
[19] A: Yes.	[19] Q: No.
[20] Q : Who?	20 A: I maybe misunderstood the question.
[21] A: That school board. I'm currently	[21] Can you restate the question or repeat the question?
[22] working on a —	[22] Q: I will restate the question.
MR. GABRIEL: Why don't you wait	[23] Apart from your work for the RIAA and
[24] until the ambulance passes.	[24] your work for people at Iowa State University, how
MR. BECKERMAN: I don't think we —	[25] many hard drives have you been hired to do a
Page	
[1] Jacobson	[1] Jacobson
[2] MR. GABRIEL: It may take a while.	[2] forensic examination of?
[3] MR. BECKERMAN: This is New York,	[3] A: Probably half a dozen. It's been
[4] Richard. This isn't Denver. We could be	[4] over such a long period of time.
[5] here all day.	[5] Q: What software did you use?
[6] MR. GABRIEL: Just try to keep your	[6] A: In the latest ones I've been using
7 voice up.	[7] EnCase.
A: I am currently working on two	[8] Q : Which edition of EnCase?
of forensic cases that are ongoing. I've done quite a	9 A: I'm using 5.
[10] bit of forensic work for law enforcement which I do	[10] Q: What did you use before?
[11] pro bono.	[11] A: I would use various Hex editors and
[12] Q: When were you first hired to do	[12] then — before it was — before we had sophisticated
[13] forensic work on a hard drive?	[13] software. Sometimes I would write software to
[14] MR. GABRIEL: Just for	[14] recover.
[15] clarification, when you say hired, does	[15] Q: When did you start using EnCase 5?
[16] that include the pro bono work he's	[16] A: I don't remember the date that it
[17] talking about?	[17] came out. Prior to that I was using version 4.
[18] MR. BECKERMAN: Yes.	[18] Q: When did you start using that?
[19] A: On a hard drive, probably in the late	[19] A: Probably about three years ago.
[20] '80s.	[20] Q : Has anyone other than the RIAA ever
[21] Q: And who was that?	[21] hired you to opine on whether a particular computer
[22] A: The Iowa State University. I've done	[22] had been used for uploading or downloading
quite a bit of forensic work helping out various	[23] copyrighted works?
[24] individuals at the university.	[24] A: Copyrighted works?
[25] Q : What law enforcement agency hired you	[25] Q : Yes.
	,, , , , , , , , , , , , , , , , , , ,

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[1]	Jacobson	[1]	Jacobson
[2]	A: No.	[2]	computer has been used for uploading or downloading
3]	Q: How long have you been using your	[3]	copyrighted works?
	present method of determining whether a particular	[4]	A: Well, the forensic examination
	computer has been used for uploading or downloading	[5]	process I learned through self-study and through the
6]	copyrighted works?	[6]	forensic examiner's exam.
7]	A: About a year and a half.	[7]	Q: Now, am I correct that you were doing
8]	Q: When did you learn your present	[8]	this for law enforcement before you were a certified
9]	method of determining whether a particular computer	[9]	forensic examiner?
0]	has been used for uploading or downloading	[†0]	A: That's correct.
1]	copyrighted works? Or did you develop it yourself?	[11]	Q: And when did you become a certified
2]	A: Clarification. Are you talking about	[12]	forensic examiner?
3]	exams on the hard drives or just the process, the	[13]	A: September '04.
4]	entire process?	[14]	
5]	Q: Well, you have a method, do you not?	[15]	forensic examiner?
6]	A: I have a method for examining hard	[16]	A: Two reasons. One is to be able to
7]	drives and I have a method for reviewing the	[17]	better work with the law enforcement and the other
B)	MediaSentry material.	-	is to help support our university's educational
9]	Q: So these are two different things?	l .	mission, since we teach computer forensics.
0]	One isn't tied into the other?	[20]	
1]	A: They are two different processes.		might give you standing to testify in a court of law
2]	Q: Okay. So let's break it down. Your		as to your forensic examinations of hard drives?
3]	method of —	[23]	
4]	The MediaSentry materials are		reason, to work better with law enforcement.
:5]	gathered through the internet?	[25]	
	Page 38	-	Page 4
[1]		[1]	I
2]			recording industry of America?
		1 (2)	
	material through the internet.		
	material through the internet. Q: How did you learn your method of	[3]	A: I was a certified examiner before I
4]	Q: How did you learn your method of	[3] [4]	A: I was a certified examiner before I was engaged by the recording industry.
4] 5]	Q: How did you learn your method of interpreting — withdrawn.	[3] [4] [6]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged
4] 5] 6]	Q: How did you learn your method of interpreting — withdrawn. Are you able —	[3] [4] [5] [6]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002?
4] 5] 6]	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with	[3] [4] [5] [6]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05.
4) 5] 6] 7]	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into	[3] [4] [5] [6] [7]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them
(4) (5) (6) (7) (8) (9)	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into two separate processes. Is it your testimony that	[3] [4] [5] [6] [7] [8]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them in 2002?
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4) 5) 6) 7) 8) 9) 1)	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into two separate processes. Is it your testimony that there is a way to detect whether a computer has been used for uploading or downloading copyrighted works	[3] [4] [5] [6] [7] [8] [9] [10]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them in 2002? A: No. My first work for them was in the fall of 2005. I can't remember my first trip to
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4) 5) 6) 7) 8) 9) 0) 1) 2) 3)	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into two separate processes. Is it your testimony that there is a way to detect whether a computer has been used for uploading or downloading copyrighted works without both looking at the MediaSentry material and the hard drive?	[3] [4] [6] [6] [7] [8] [9] [10] [11] [12]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them in 2002? A: No. My first work for them was in the fall of 2005. I can't remember my first trip to Kansas City. Q: And you weren't doing any work for
4) 5) 6) 7) 8) 9) 0) 1) 2) 3) 4)	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into two separate processes. Is it your testimony that there is a way to detect whether a computer has been used for uploading or downloading copyrighted works without both looking at the MediaSentry material and the hard drive? A: Yes.	[3] [4] [6] [6] [7] [8] [10] [11] [12] [13]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them in 2002? A: No. My first work for them was in the fall of 2005. I can't remember my first trip to Kansas City. Q: And you weren't doing any work for them in 2003?
4) 5) 6) 7) 8) 9) 1) 2) 3) 4) 5)	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into two separate processes. Is it your testimony that there is a way to detect whether a computer has been used for uploading or downloading copyrighted works without both looking at the MediaSentry material and the hard drive? A: Yes.	[3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them in 2002? A: No. My first work for them was in the fall of 2005. I can't remember my first trip to Kansas City. Q: And you weren't doing any work for them in 2003? A: No.
4) 5) 6) 7) 8) 9) 1) 2) 3) 4) 5) 6)	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into two separate processes. Is it your testimony that there is a way to detect whether a computer has been used for uploading or downloading copyrighted works without both looking at the MediaSentry material and the hard drive? A: Yes. Q: Let's break it down, then, into two separate things.	[3] [4] [6] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them in 2002? A: No. My first work for them was in the fall of 2005. I can't remember my first trip to Kansas City. Q: And you weren't doing any work for them in 2003? A: No. Q: And you weren't doing any work for
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4) 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 9 0 1 2 3 4 5 6 7 8 9 9 0 1 1 2 3 4 5 6 7 7 8 9 9 0 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into two separate processes. Is it your testimony that there is a way to detect whether a computer has been used for uploading or downloading copyrighted works without both looking at the MediaSentry material and the hard drive? A: Yes. Q: Let's break it down, then, into two separate things. How did you learn your method of determining from the MediaSentry materials whether a particular computer has been used for uploading or downloading copyrighted works? A: It was a process that I developed.	[3] [4] [6] [6] [7] [8] [10] [11] [12] [13] [14] [15] [16] [17] [18] [20] [21]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them in 2002? A: No. My first work for them was in the fall of 2005. I can't remember my first trip to Kansas City. Q: And you weren't doing any work for them in 2003? A: No. Q: And you weren't doing any work for them in 2004? A: I started working with the law firm in the fall of 2005. MR. BECKERMAN: Off the record. (Discussion off the record.)
4) 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 2 2	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into two separate processes. Is it your testimony that there is a way to detect whether a computer has been used for uploading or downloading copyrighted works without both looking at the MediaSentry material and the hard drive? A: Yes. Q: Let's break it down, then, into two separate things. How did you learn your method of determining from the MediaSentry materials whether a particular computer has been used for uploading or downloading copyrighted works? A: It was a process that I developed. Q: You developed it on your own?	[3] [4] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [20] [21]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them in 2002? A: No. My first work for them was in the fall of 2005. I can't remember my first trip to Kansas City. Q: And you weren't doing any work for them in 2003? A: No. Q: And you weren't doing any work for them in 2004? A: I started working with the law firm in the fall of 2005. MR. BECKERMAN: Off the record. (Discussion off the record.) Q: Has your method of determining from
[4] [5] [6] [7] [8] [9] [1] [1] [13] [14] [15] [17] [18] [19]	Q: How did you learn your method of interpreting — withdrawn. Are you able — I am having a little difficulty with this conceptually. You are breaking it down into two separate processes. Is it your testimony that there is a way to detect whether a computer has been used for uploading or downloading copyrighted works without both looking at the MediaSentry material and the hard drive? A: Yes. Q: Let's break it down, then, into two separate things. How did you learn your method of determining from the MediaSentry materials whether a particular computer has been used for uploading or downloading copyrighted works? A: It was a process that I developed. Q: You developed it on your own? A: Yes.	[3] [4] [6] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [20] [21] [22]	A: I was a certified examiner before I was engaged by the recording industry. Q: Isn't it a fact that you were engaged by the RIAA in 2002? A: It was in September '05. Q: You were not doing any work for them in 2002? A: No. My first work for them was in the fall of 2005. I can't remember my first trip to Kansas City. Q: And you weren't doing any work for them in 2003? A: No. Q: And you weren't doing any work for them in 2004? A: I started working with the law firm in the fall of 2005. MR. BECKERMAN: Off the record. (Discussion off the record.)

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[f] Jacobson	[1] Jacobson
[2] A: Not that I have submitted.	[2] Q: Is there a known rate of error for
[3] Q : Do you know anyone else that is using	[3] MediaSentry's methods?
[4] your method, other than you?	[4] A: Not that I'm aware of.
[5] A: Not that I'm aware of.	[5] Q: So when you evaluate the MediaSentry
[6] Q: Has your method of determining	[6] materials you are assuming them to be accurate?
[7] through the MediaSentry materials whether a	[7] A: Yes.
[8] particular computer has been used for uploading or	[8] Q : Is there a potential rate of error
[9] downloading copyrighted works been subjected to any	[9] for MediaSentry's methods?
[10] form of peer review?	[10] MR. GABRIEL: Object to the form.
[11] A: Not that I'm aware of.	[11] A: There is always a potential for an
[12] Q : Has your method of determining from	[12] error.
[13] the MediaSentry materials whether a computer has	[13] Q: Are there any standards and controls
[14] been used for uploading or downloading copyrighted	[14] over MediaSentry's methods?
[15] works been published?	[15] A: I don't know.
[16] A: N o.	[16] Q: Have MediaSentry's methods been
[17] Q: Is there a known rate of error for	[17] generally accepted in the scientific community?
[18] your method?	[18] MR. GABRIEL: Object to the form.
[19] A: No.	[19] Lack of foundation.
[20] Q : Is there a potential rate of error?	[20] A: Not that I know of.
[21] MR. GABRIEL: Object to the form.	[21] Q: Is MediaSentry peer-regulated?
[22] A: I guess there is always a potential	[22] A: Not that I know of.
[23] of an error.	[23] Q: Apart from your work on RIAA
Q: Do you know of a rate of error?	[24] litigations against owners of internet access
[25] A: To my process, no.	[25] accounts, have you engaged in research on
Page 42	Page 44
[1] Jacobson	[1] Jacobson
[2] Q: Are there any standards and controls	[2] determining whether specific individual computer
[3] over what you have done?	users engaged in copyright infringement through
[4] A: No.	
• •	[4] peer-to-peer file sharing?
[5] Q : Have your methods been generally	[4] peer-to-peer file sharing? [5] MR. GABRIEL: I'm sorry, I lost
[5] Q : Have your methods been generally accepted in the scientific community?	[4] peer-to-peer file sharing? [5] MR. GABRIEL: I'm sorry. I lost [6] the question. Could you repeat it,
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[1]	Jacobson	[1]	Jacobson	5
[2]	A: Through Palisade as part of product	[2]	thinking of some alternate explanations?	
	relopment.	[3]	A: Yes.	
[4]	: Is that something that is research	[4]	Q: Can you think of any possible	
[5] wh	ich is private and proprietary?	[5] i	infirmities in MediaSentry's methods as we sit here?	
[6]	A: No.The piece I did is no longer	[6]	MR. GABRIEL: Object to form and	
[7] use	d as the technology, so it's not.	[7] 1	foundation. I'm sorry.	
[8]	2: Was it ever published?	[8]	A: I don't have an inner knowledge of	
[9]	A: No.At the time it was proprietary	ļ	their methods so I	
10] to I	Palisade.	[10]	Q: Can you think of any possible	
11] (: And now it's been replaced by other	1	security vulnerabilities in the computer that was in	
12] me	thods?		Marie Lindor's apartment?	
3] A	A: Yes.	[13]	MR. GABRIEL: Object to form and	
4] C	2: Apart from your work on the RIAA		foundation.	
	es, have you engaged in any research on methods	[15]	A: Repeat the question, Read it back.	
	determining whether specific computer hard drives	[16]	(Record read.)	
	ntained evidence of copyright infringement through	[17]	A: I didn't examine the hard drive that	
	er-to-peer file sharing?		was given to me for security vulnerabilities, so I	
_	A: No.		can't attest to what vulnerabilities may have been	
-	2: Do any of your three reports — by		present in that hard drive.	
	ree reports" I'm referring to the April 7th	[21]	Q: As we sit here, can you think of any	
	ial report, the December 19th declaration that		possible security vulnerabilities in the computer	
	signed and the October report which you did not		that was in Marie Lindor's apartment?	
-	n. Do any of those three reports discuss the	[24]	MR. GABRIEL: Objection to form.	
	ssibility of any alternate explanations other than	1	Lack of foundation.	
	Page 46	[20]		
[1]	Jacobson		Jacobson	Page 4
	oyright infringement?	[1]	A: Read that back.	
_	MR. GABRIEL: Object to form to the	[2]	(Record read.)	
	ent that they speak for themselves.	[3]	A: Can you read it one more time.	
	You can answer the question.	[4]	(Record read.)	
	A: Please read the question. I didn't	[5]	A: I'm sure the possibility exists there	
	derstand.	[6]	were security vulnerabilities. Again, I don't know	
	(Record read.)	1	which ones would apply to that particular compute.	-
	A: Alternate explanations to?		Q: And did your report discuss any of	1.
	2: Your conclusions.	[9]	those possible security vulnerabilities?	
	A: No.	[10]	- · · · · · · · · · · · · · · · · · · ·	
11	4. INO.	F4 41	A: No	
•		[11]	A: No. O: Did you testify at an United States	
2] I'm	sorry. I said, "No."	[12]	Q: Did you testify at an United States	
2] I'm 3] (sorry. I said, "No." Q: Did any of the three reports discuss	[12] [13]	Q : Did you testify at an United States Senate committee in September of 2003?	
2] I'm 3] (4) any	sorry. I said, "No." 2: Did any of the three reports discuss alternate explanations other than KaZaA	[12] [13] [14]	Q: Did you testify at an United States Senate committee in September of 2003? A: Yes.	
2] I'm 3] (4] any 5] apt	sorry. I said, "No." 2: Did any of the three reports discuss 7 alternate explanations other than KaZaA 9 pearing on a file owned by Marie Lindor?	[12] [13] [14] [15]	Q: Did you testify at an United StatesSenate committee in September of 2003?A: Yes.Q: Did you make this statement?	
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12] I'm 13] (14] any 15] app 16] [I sorry. I said, "No." Q: Did any of the three reports discuss y alternate explanations other than KaZaA pearing on a file owned by Marie Lindor? MR. GABRIEL: Object to the form. ey speak for themselves.	[12] [13] [14] [15] [16]	 Q: Did you testify at an United States Senate committee in September of 2003? A: Yes. Q: Did you make this statement? "In summer of 2000 we introduced PacketHound which is designed to detect, monitor a 	and
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22 I'm 33 C 44 any 55 app 66 M 77 The 88 On 69 On 69 You 621 you 623 a C 624	a sorry. I said, "No." 2: Did any of the three reports discuss a laternate explanations other than KaZaA bearing on a file owned by Marie Lindor? MR. GABRIEL: Object to the form. ey speak for themselves. A: What do you mean by KaZaA appearing a file? 2: I'm sorry, I misspoke. Do any of the possibility of any ternate explanations other than KaZaA appearing on	[12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22]	 Q: Did you testify at an United States Senate committee in September of 2003? A: Yes. Q: Did you make this statement? "In summer of 2000 we introduced PacketHound which is designed to detect, monitor a block unauthorized peer-to-peer applications." A: That sounds like — that sounds like a statement I made. Q: Did you make this statement? "There are no effective controls 	and

	Page 49		Page 5
[1]		[1]	Jacobson
[2]	made.	[2]	which I represent to you was made by Mr. Gottlieb?
[3]	•	[3]	"As an additional matter P2P software
[4]	*	[4]	may, upon installation, automatically search a
[5]	of the file are not easily detected."	[5]	user's entire hard drive for content, files that
[6]	•	[6]	users have no intention of sharing may end up being
	that was in that testimony. I don't have the	[7]	offered to the entire P2P network."
[8]	testimony in front of me, so I	[8]	A: Yes.
[9]	•	[9]	Q: Do you agree with this statement
[10]	•	[10]	which I represent to you was made by Mr. Gottlieb?
[11]	for the home users."	[11]	"Continued sharing of personal
[12]	A: Again, that sounds like a statement	[12]	information is hard to avoid and is facilitated by
[13]	that was in the testimony.	[13]	confusing and complicated instructions for
[14]	Q: Did you make this statement?	[14]	designating shared items."
[15]	"This leaves individuals on their own	[15]	A: Yes.
[16]	to solve the problems of peer-to-peer networking."	[16]	Q: Do you agree with this statement also
[17]	A: Again, that sounds like a statement	[17]	made by Mr. Gottlieb?
[18]	that was in the testimony.	[18]	"A study by Nathaniel S. Good and
[19]	Q: Did you make this statement?	[19]	Aaron Krekelberg at HP Laboratories showed that the
[20]	"Which naturally leaves us to the	[20]	majority of the users were unable to tell what files
[21]	question, what is the homeowner to do?"	[21]	they were sharing and sometimes incorrectly assumed
[22]	A: Again, that sounds like something	[22]	they were not sharing any files when in fact they
[23]	that was in that testimony.	[23]	were sharing all files on their hard drive.
[24]	Q: Did you make this statement?	[24]	MR. GABRIEL: Object to the form.
[25]	"Unlike web filtering, where certain	[25]	Lack of foundation.
	Page 50		Page 52
[1]	Jacobson	[1]	Jacobson
[2]	sites can be blocked and web access can be	[2]	A: I guess I can't quantify some, most,
	monitored, peer-to-peer traffic cannot be filtered	[3]	all. I'm sorry.
	based on its content. This leaves a home user no	[4]	Q: Are you familiar with the report by
[5]	choice but to either allow peer-to-peer activity and	[5]	Nathaniel Good and Aaron Krekelberg at HP
[6]	all of its associated risks or not allow any	[6]	Laboratories?
[7]	peer-to-peer applications on their machines."	[7]	A : No.
[8]	A: Again, that sounds like what was in	[8]	MR. GABRIEL: When we get to a good
[9]	that testimony.	[9]	stopping point, can we take five? It's
[10]	Q : Are you familiar with Steven Gottlieb	[10]	been an hour and a half.
[11]	of the RIAA?	[11]	MR. BECKERMAN: Sure.
[12]	A: I've heard the name but that's it.	[12]	(Recess taken.)
[13]	Q: Do you agree with this statement	[13]	Q: Your reports state your conclusions;
	which I will represent to you he made on	[14]	is that correct?
	November 15, 2004 in comments he provided to the	[15]	A: Yes.
[16]	Federal Trade Commission?	[16]	Q: And they state that your conclusions
[17]		[17]	were based upon —
	software to share content by default. What users	[18]	
	often do not know is that they may be sharing their	[19]	three together.
[19]	tax records, financial records, health records,	[20]	
[20]	the state of the second control of the secon	1211	conclusions were based upon the materials that had
[20] [21]	business records, e-mail and other personal and	15.0	· · · · · · · · · · · · · · · · · · ·
[20] [21]	private material."	1	been provided to you by MediaSentry plus a few other
[20] [21]	private material." Do you agree with that statement?	[22]	
[20] [21] [22]	private material." Do you agree with that statement?	[22]	been provided to you by MediaSentry plus a few other documents; is that correct?

	Dogo 50	
[1]	Page 53 Jacobson	Page 5
	formed your conclusions from those documents?	[1] Jacobson [2] that.
[3]	A: Not in any detail.	50
[4]	Q: How many reports have you issued for	1
	the RIAA?	[4] used for peer-to-peer file sharing with KaZaA, would
[6]	A: Maybe 200. I don't know, don't	[5] your forensic inspection have allowed you to see [6] whether there was a shared files folder on the
	recall the exact count.	[7] computer?
[8]	MR. BECKERMAN: I would like to	
[9]	leave a space in the record for that	
	number.	[9] Q: And, again, if the hard drive had [10] been used for peer-to-peer file sharing with KaZaA,
· · {11]	TO BE FURNISHED:	would your forensic inspection have shown you
[12]		
 [13]	Q: How many of those reports concluded	[12] Whether there were audio files or remnants, or
-	that there was in fact downloading or uploading of	[13] evidence thereof, of the files that MediaSentry had
	plaintiff's copyright files?	[14] observed?
[16]	A: All of the — yes, all of the	[15] A: Yes.
	reports.	[16] Q: Under those same circumstances, would
[18]	Q: How much time did you spend on each	[17] your forensic inspection have allowed you to see
	report?	[18] whether a party had attempted to delete file sharing
[20]	A: A typical report takes me about 45	[19] programs or other files?
	minutes.	
[22]	Q: And how much time did you spend on	[21] Q: Now, a dynamic IP address is [22] allocated very often for a short period of time; is
	the April 2006 report in this case?	23 that not correct?
[24]	A: Without seeing the billing records, I	224 A: It depends how you define "short."
[25]	can only guess but I think it was 45 minutes.	[25] Q: Well, you yourself used that
	Page 54	
[1]	Jacobson	Page 5
[2]	Q : How much time did you spend preparing	
	the unsigned October report?	[2] technology, did you not? [3] A: Yes.
[4]	A: That was — not that one.	
	I'm sorry. I was pointing to	[4] Q: So what is the shortest it could be?
		ry There is no shortest is there? It could be for a
	SOMETHING OF YOUR CESK, I DIODADIV STORIGHT I GO	[5] There is no shortest, is there? It could be for a
[7]	something on your desk. I probably shouldn't do that.	(6) split second?
	that.	[6] split second? [7] A: A computer can request and release.
[8]	that. MR. GABRIEL: After you looked at	 [6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be
[8]	that. MR. GABRIEL: After you looked at the hard drive he is asking about.	 [6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or —
(8) (9) (10)	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you.	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or — [10] A: It could be for days, yes.
[8] [9] [10] [11]	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy?	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or —— [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same
(8) (9) (10) (11) (12)	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or —— [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during
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[8] [9] [10] [11] [12] [13]	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between the two reports that —	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or — [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during [13] one minutes? [14] MR. GABRIEL: Object to the form.
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[8] [9] [10] [11] [12] [13] [14] [15]	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between the two reports that — Again, without looking at the billing records, I would say probably two to four hours.	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during [13] one minutes? [14] MR. GABRIEL: Object to the form. [15] A: It's possible. [16] Q: Now, the users of a peer-to-peer
[8] [9] [10] [11] [12] [13] [14] [15] [16]	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between the two reports that — Again, without looking at the billing records, I would say probably two to four hours. Q: And how much time did you spend on	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or — [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during [13] one minutes? [14] MR. GABRIEL: Object to the form. [15] A: It's possible. [16] Q: Now, the users of a peer-to-peer [17] network often think they are anonymous when they
[8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18]	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between the two reports that — Again, without looking at the billing records, I would say probably two to four hours. Q: And how much time did you spend on the December 19th declaration?	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or — [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during [13] one minutes? [14] MR. GABRIEL: Object to the form. [15] A: It's possible. [16] Q: Now, the users of a peer-to-peer [17] network often think they are anonymous when they [18] distribute files. Isn't that true?
[8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18]	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between the two reports that — Again, without looking at the billing records, I would say probably two to four hours. Q: And how much time did you spend on the December 19th declaration? A: Maybe 15 minutes.	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during [13] one minutes? [14] MR. GABRIEL: Object to the form. [15] A: It's possible. [16] Q: Now, the users of a peer-to-peer [17] network often think they are anonymous when they [18] distribute files. Isn't that true? [19] A: In my opinion, a lot of users feel
[8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19]	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between the two reports that — Again, without looking at the billing records, I would say probably two to four hours. Q: And how much time did you spend on the December 19th declaration? A: Maybe 15 minutes. Q: If a hard drive had been used for	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or — [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during [13] one minutes? [14] MR. GABRIEL: Object to the form. [15] A: It's possible. [16] Q: Now, the users of a peer-to-peer [17] network often think they are anonymous when they [18] distribute files. Isn't that true? [19] A: In my opinion, a lot of users feel [20] that they are anonymous.
[8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21]	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between the two reports that — Again, without looking at the billing records, I would say probably two to four hours. Q: And how much time did you spend on the December 19th declaration? A: Maybe 15 minutes. Q: If a hard drive had been used for peer-to-peer file sharing with KaZaA, would your	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or — [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during [13] one minutes? [14] MR. GABRIEL: Object to the form. [15] A: It's possible. [16] Q: Now, the users of a peer-to-peer [17] network often think they are anonymous when they [18] distribute files. Isn't that true? [19] A: In my opinion, a lot of users feel [20] that they are anonymous. [21] Q: In your April 7th report you say that
(8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20)	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between the two reports that — Again, without looking at the billing records, I would say probably two to four hours. Q: And how much time did you spend on the December 19th declaration? A: Maybe 15 minutes. Q: If a hard drive had been used for peer-to-peer file sharing with KaZaA, would your forensic inspection have allowed you to see whether	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or — [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during [13] one minutes? [14] MR. GABRIEL: Object to the form. [15] A: It's possible. [16] Q: Now, the users of a peer-to-peer [17] network often think they are anonymous when they [18] distribute files. Isn't that true? [19] A: In my opinion, a lot of users feel [20] that they are anonymous. [21] Q: In your April 7th report you say that [22] in reality they can be identified using the IP
(8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21)	that. MR. GABRIEL: After you looked at the hard drive he is asking about. THE WITNESS: Okay. Thank you. Q: Would you like me to show you a copy? A: No. I just wanted to clarify between the two reports that — Again, without looking at the billing records, I would say probably two to four hours. Q: And how much time did you spend on the December 19th declaration? A: Maybe 15 minutes. Q: If a hard drive had been used for peer-to-peer file sharing with KaZaA, would your forensic inspection have allowed you to see whether a file sharing program had been downloaded or	[6] split second? [7] A: A computer can request and release. [8] Q: It could be for hours or it could be [9] for seconds or — [10] A: It could be for days, yes. [11] Q: Would it be possible to have the same [12] dynamic IP address assigned to three people during [13] one minutes? [14] MR. GABRIEL: Object to the form. [15] A: It's possible. [16] Q: Now, the users of a peer-to-peer [17] network often think they are anonymous when they [18] distribute files. Isn't that true? [19] A: In my opinion, a lot of users feel [20] that they are anonymous. [21] Q: In your April 7th report you say that

Page 57	Page 59
[1] Jacobson	[1] Jacobson
[2] A: I guess I'm not clear what you mean	[2] MR. GABRIEL: Object to form.
[3] by that.	[3] A: I don't understand the follow-on
[4] Q: Well, it's true, is it not, that	[4] statement.
s there can be more than one computer operating under	[5] Q: Do you know what a MAC address is?
[6] a single IP address?	[6] A: Yes.
MR. GABRIEL: Object to the form.	Q: Can a router have a MAC address?
[8] A: As I talked about it in the report	[8] A: Yes.
(9) with public IP addresses, in order for the internet	Q: If I had ten different companies
of to function there can only be — every public IP	[10] operating behind a router and I had a properly
address has to be globally unique within that window	[11] functioning firewall or firewalls, would anybody in
12] of time.	[12] the wide network actually know what was behind the
13] Q: But there can be more than one	[13] router with the properly functioning firewall?
[14] computer operating behind that IP address?	[14] MR. GABRIEL: Object to the form.
MR. GABRIEL: Same objection.	[15] Lack of foundation.
16] A: Every — I don't understand what you	[16] A: It's possible to determine who is
are asking. Every device connecting to the public	[17] behind that, so to say that there is no way to know
18] internet has to have a global unique address.	[18] is not true.
19] Q: And a device doesn't have to be a	[19] Q: How could you find out?
20] computer, does it?	[20] A: Potentially based on the activity
21) A: That's correct.	[21] coming out. There is lots of ways that attackers
22) Q: It could be a router, correct?	[22] could use to determine what is behind a firewall.
23) A: Yes.	[23] Q: But one method to identify that
Q: It could be a wired router?	[24] person would not be the IP address. The IP address
25] A: Yes.	[25] alone would not tell you that, would it?
Page 58	Page 60
[1] Jacobson	[1] Jacobson
2) Q: It could be a wireless router?	[2] A: Would not tell you what?
[3] A: Yes.	[3] Q: What individual was sharing files.
[4] Q : And if there is a firewall, under	[4] A: By "individual" do you mean
[5] most circumstances no one would know the various	[5] flesh-and-blood person?
[6] computers or devices behind the router, would they?	[6] Q : Yes.
MR. GABRIEL: Object to form.	[7] A: The IP address tells you the identity
A: It depends on the type of router.	[8] of the computer.
[9] Q : Is it possible for more than one	[9] Q: It actually doesn't tell you the
10] device to be operating behind a single IP address?	[10] identity of the computer. It tells you the identity
A: Yes.	[11] of the device.
Q: Now, when we get to the devices, some	[12] A: That's correct.
of Also doubless and sententials. To Also to the contract of	l —
_	[13] Q : And it doesn't actually tell you the
14] A : Yes.	[13] Q: And it doesn't actually tell you the [14] identity of the device. It tells you a MAC address?
A: Yes. Q: And is it possible for a computer to	- ·
A: Yes. Q: And is it possible for a computer to help have more than one user?	[14] identity of the device. It tells you a MAC address?
A: Yes. Q: And is it possible for a computer to have more than one user? A: Yes.	identity of the device. It tells you a MAC address? MR. GABRIEL: Objection to form. In A: IP address does not tell you a MAC address.
A: Yes. Q: And is it possible for a computer to les have more than one user? A: Yes. Q: So, in other words, when a person is	identity of the device. It tells you a MAC address? MR. GABRIEL: Objection to form. A: IP address does not tell you a MAC
A: Yes. Q: And is it possible for a computer to less have more than one user? A: Yes. Q: So, in other words, when a person is less engaged in peer-to-peer file sharing, it's not the	identity of the device. It tells you a MAC address? MR. GABRIEL: Objection to form. In A: IP address does not tell you a MAC address.
A: Yes. Q: And is it possible for a computer to le have more than one user? A: Yes. Q: So, in other words, when a person is le engaged in peer-to-peer file sharing, it's not the person that could be identified by an IP address, is	identity of the device. It tells you a MAC address? MR. GABRIEL: Objection to form. Itel A: IP address does not tell you a MAC address. Itel Q: How could it tell you the identity of
A: Yes. Q: And is it possible for a computer to has have more than one user? A: Yes. Q: So, in other words, when a person is engaged in peer-to-peer file sharing, it's not the person that could be identified by an IP address, is it?	[14] identity of the device. It tells you a MAC address? [15] MR. GABRIEL: Objection to form. [16] A: IP address does not tell you a MAC [17] address. [18] Q: How could it tell you the identity of [19] the device? How would you identify a device other
A: Yes. Q: And is it possible for a computer to lis have more than one user? A: Yes. Q: So, in other words, when a person is engaged in peer-to-peer file sharing, it's not the person that could be identified by an IP address, is it? MR. GABRIEL: Object to the form.	identity of the device. It tells you a MAC address? MR. GABRIEL: Objection to form. Respond to the device of the device of tell you a MAC address. Respond to the device of the devic
A: Yes. Q: And is it possible for a computer to have more than one user? A: Yes. Q: So, in other words, when a person is engaged in peer-to-peer file sharing, it's not the person that could be identified by an IP address, is it? MR. GABRIEL: Object to the form. Lack of foundation.	identity of the device. It tells you a MAC address? MR. GABRIEL: Objection to form. Itel A: IP address does not tell you a MAC address. Itel Q: How could it tell you the identity of Itel the device? How would you identify a device other than by a MAC address? Itel A: Every device in the public internet
Q: And is it possible for a computer to have more than one user? A: Yes. Q: So, in other words, when a person is engaged in peer-to-peer file sharing, it's not the person that could be identified by an IP address, is it?	[14] identity of the device. It tells you a MAC address? [15] MR. GABRIEL: Objection to form. [16] A: IP address does not tell you a MAC [17] address. [18] Q: How could it tell you the identity of [19] the device? How would you identify a device other [20] than by a MAC address? [21] A: Every device in the public internet [22] is configured with an IP address.

Page 6
[1] Jacobson
[2] software to work, you have to have the identity of
[3] the machine holding the music or holding the data.
[4] Q: Even if it's going through a router?
[5] You're saying there is more than one IP address
[6] going through a router?
7 A: The peer-to-peer software will
[8] present an IP address within the data payload of the
[9] IP packet.
[10] Q: Well, what I'm trying to understand
[11] is why in your report, referring to your April
[12] report, it seems to me that when you were making
[13] general descriptions of the technology involved, you
[14] kept saying computer or network device but then when
[15] you were coming to your conclusions about the
[16] defendant, then you all of a sudden started talking
[17] about computers and you left out network devices. I
[18] was wondering why.
[20] saying?
1
Q: Why did you do that? Why did you
[23] stop mentioning network devices? [24] A: Because in an examination of
[25] MediaSentry data, I concluded that it was a computer
1 49
[1] Jacobson
[2] at that IP address.
[3] Q: And how did you come to that
[4] conclusion?
[5] A: Through the MediaSentry traffic
[6] captures which shows the IP address of the actual
[7] computer and the IP address of the packet in transit
[8] across the internet, and those two IP addresses were
[9] both public and both matched.
[10] Q : What is the document you are
[11] referring to for MediaSentry?
[12] A: I think it was the download.text file
[13] or download log maybe they call it.
[14] Q : The log for the user?
[15] A: No.
[16] MR. GABRIEL: Do you want to go off
[17] the record for a minute and find it?
[18] MR. BECKERMAN: No. We are on the
1
[19] record.
[19] record. [20] Q: The Marie system log? Lindor, Marie
[20] Q: The Marie system log? Lindor, Marie
[20] Q: The Marie system log? Lindor, Marie [21] system log?
[20] Q: The Marie system log? Lindor, Marie [21] system log? [22] A: No.That's not the system log. It
[20] Q: The Marie system log? Lindor, Marie [21] system log?

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[1] Jacobson	[1] Jacobson
[2] MR. BECKERMAN: I would like to	[2] actual source address of the internet packet.
[3] mark as Exhibit 6 a printout of numbered	[3] Q: What is the next line, the KaZaA IP?
[4] pages 36 to 45.	[4] A: Oh.
[5] (Defendant's Exhibit 6, printout of	[5] Q: The line down below where you say the
[6] numbered pages 36 to 45, marked for	[6] two numbers match, what is the meaning of that
[7] identification, as of this date.)	[7] number?
[8] Q: So this tells you that there was no	[8] A: Which one? The KaZaA IP?
[9] router?	[9] Q : You said it is the same number.
[10] A: This tells me that there was — yes.	[10] A: Right.
[11] There was no router.	[11] Q: Where it says "KaZaA IP" and there is
[12] Q: How does it tell you that there was	[12] the same number.
[13] no router?	
[14] A : Through the two —	[18] A: As line 2, yes. That is the — that is the —
[15] If you look at the second chunk down,	1, ,
[18] you will see the source address at the top and you	[15] Q: What is the significance of that
[17] will see the KaZaA IP address midway through that,	[16] line?
[18] and they match and they are both public IP	[17] MR. GABRIEL: Let him ask the
[19] addresses.	[18] question and then you answer. He asked
0.77	[19] what is the significance of that line.
A vvi 1 1 km - 1/1 dee ew 100	[20] A: Of the line "KaZaA IP"?
O (75 a) at a co	[21] Q : Yes.
• •	[22] A: That is the IP address that the KaZaA
[23] A: And then down below you see the KaZaA	[23] software is using.
[24] IP? [25] Q : Yes.	[24] Q: And how is that determined?
[25] Q: Yes.	A: It's determined by the KaZaA software
Page 66	D . 4
	Page 68
[1] Jacobson	[1] Jacobson
Jacobson A: It's those two IP addresses.	[1] Jacobson [2] itself.
Jacobson A: It's those two IP addresses. G: What does the first number indicate?	[1] Jacobson [2] itself. [3] Q: Why wouldn't those two numbers always
Jacobson A: It's those two IP addresses. R: What does the first number indicate? A: The first number of the IP address?	[1] Jacobson [2] itself. [3] Q: Why wouldn't those two numbers always [4] be the same?
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Page 69	B
[1] Jacobson	Page 7
[2] that is carried within the data packet as it	
sy traverses across the internet. The line that starts	[2] employed at the firewall." Do you agree with that
4 "X-KaZaA-IP" is part of the data payload within that	[3] statement?
packet.	[4] MR. GABRIEL: Object to form. Lack
-	[5] of foundation.
Q: And how do you know that? Didn't you	[6] A: Yes.
y say you have never communicated with MediaSentry? A: That's correct.	7 Q: Now I refer you to the first sentence
	[8] of the next paragraph.
Q: So how do you know that?	"The reality of today's internet is
A: Because I understand how KaZaA	[10] that a large fraction of peers reside behind NATs."
g operates.	[11] Do you agree with that statement?
Q: And how did you come to understand	[12] MR. GABRIEL: Object to form. Lack
how KaZaA operates?	[13] of foundation.
A: Through researching protocol.	[14] A: I don't have any way to know what
q: Starting when?	[15] fraction.
6] A: I can't remember the exact date I	[16] Q: Do you agree that NATs exist?
7 started researching KaZaA. It was all part of the	[17] A: Yes.
8] work Palisade did in the production of PacketHound.	[19] Q: What is a NAT?
9) Q: Are you familiar with the Ross	[19] A: The term stands for network address
og studies of KaZaA?	[20] translator. It is a router that on one side has a
a) A: Not offhand.	[21] public IP address and on the other side maintains or
2] Q: You never read them?	[22] has a set of what I want to refer to as private or
3] A: I don't recall without seeing one.	[23] sometimes inside IP addresses, which are addresses
MR. BECKERMAN: I would like to	[24] that are not allowed on the public internet.
25] mark as Exhibit 7 a study entitled "The	[25] Q: And do you agree that the existence
Page 70	Page 7
[i] Jacobson	[1] Jacobson
[2] KaZaA Overlay: A Measurement Study."	[2] of a network address translator makes it difficult
(Defendant's Exhibit 7, study	131 to detect the IP address of specific computers
4] entitled "The KaZaA Overlay: A Measurement	[4] behind the router?
s Study," marked for identification, as of	MR. GABRIEL: Objection to form.
6) this date.)	[6] Lack of foundation.
Q: So have you reviewed this report at	7 A: By router do you mean network address
[8] any time?	[8] translator?
9 A: Yes, I have.	0.77
Q: I direct your attention to Page 17	[9] Q: Yes.
and I call your attention to in the middle of the	[11] Q: And do you agree that KaZaA has used
page a sentence that starts with the words "later	[12] a connection reversal in order to try to overcome
y versions." The statement says, "Later versions	[13] that?
4) (KMDV 2.0+ and KaZaA-Lite) employ dynamic port	[14] MR. GABRIEL: Objection to form.
s numbers to evade firewalls."	115 Lack of foundation.
Bo you agree with that statement?	
7 MR. GABRIEL: Objection. Lack of	[18] A: I agree with the definition that they [17] specify in the article. I've never heard that
is foundation.	[18] specific term.
19] A: Yes.	
Q: Going down to the end of that	
paragraph, I will read you the last sentence and ask	[20] mark as Exhibit 8 a one-page chart.
22] if you agree with that sentence.	[21] (Defendant's Exhibit 8, one-page
23] "Since the KaZaA port numbers are	[22] chart, marked for identification, as of this
24] dynamic, it is very difficult to block KaZaA	[23] date.)
25] connections unless a very rigid filtering policy is	[24] Q: Can you identify what that displays?
ed connections unites a very rigid intering policy is	[25] MR. GABRIEL: Object to foundation.

Page 73 [1] Jacobson	Page 75
2 He didn't draft it.	[1] Jacobson
You can answer the question.	[2] (Defendant's Exhibit 9, paper
A: I don't know the intent of it but it	[3] entitled "Pollution in P2P File Sharing
[5] shows, as it's labeled, a cable modem connected to	[4] Systems," marked for identification, as of
[6] the internet. And it shows a set of IP addresses,	[5] this date.)
7 all of which are the private — designated as parts	[6] Q: Going to the first page, the
	[7] right-hand column, the first full paragraph, the
[8] of the private IP address range.	[8] first sentence starts with "One sabotage technique."
[9] Q: Going back to the study, Exhibit 7, I	[9] I will ask if you agree with this statement.
[10] call your attention to Page 21, a paragraph bearing	[10] MR. GABRIEL: I'm sorry. Where are
[11] number 7, and I'm going to the last two sentences	[11] you?
[12] and I am going to ask if you agree with this	[12] I got it.
[13] statement. "KaZaA uses dynamic port numbers along	[13] Q : "One sabotage technique that is
[14] with" —	[14] particularly prevalent today is that of pollution."
A: I'm sorry. I am not finding it.	[15] Do you agree with that statement?
Q: Page 21, there is a paragraph number	[16] MR. GABRIEL: Objection to form.
[17] 7.	[17] Lack of foundation.
[18] A: Okay, I'm sorry.	[18] A: I don't have any knowledge that as
[19] Q: I am asking if you agree with this	[19] they define pollution it is prevalent on the
[20] statement. "KaZaA uses dynamic port numbers along	[20] peer-to-peer systems.
[21] with its hierarchical design to avoid firewall [22] blocking."	[21] Q : Are you aware that one of
	[22] MediaSentry's areas of business is pollution?
[23] Do you agree with that? [24] MR. GABRIEL: Objection to form.	[23] A: No.
[25] Lack of foundation.	Q: Are you aware that MediaSentry is in
	[25] the business of sending out decoy files?
Page 74	Page 76
[1] Jacobson	[1] Jacobson
[2] A: I know KaZaA uses dynamic port	[2] MR. GABRIEL: Objection to form,
[3] numbers. Whether that was the original design	[3] A : No.
[4] intent to avoid firewalls would be a fair	[4] MR. GABRIEL: Sorry. Belated
[5] assumption.	[5] objection to the form.
[6] Q: The next sentence, do you agree with	[6] Q: Excuse me?
[7] that statement?[8] "Furthermore, it uses connection	[7] A: No.
[8] "Furthermore, it uses connection [9] reversal to allow NATed peers to share files."	[8] Q: I turn you to the second page, the
A FFR. de de Proprieta de la compansión	[9] first full paragraph. About two-thirds of the way
[10] MR. GABRIEL: Objection to form. [11] Lack of foundation.	down in the paragraph there is a sentence that
[12] A: Yes.	[11] starts "We will see that." I call your attention to
[13] Q: When you studied KaZaA, did you	[12] that sentence and ask if you agree with this
[14] familiarize yourself with the concept of pollution	[13] statement.
[15] on KaZaA?	"We will see that pollution is indeed
[16] A: No.	[15] pervasive with more than 50 percent of the copies of
[17] Q: Do you know what pollution is on	[16] many popular recent songs being polluted in KaZaA
[18] KaZaA?	[17] today." Do you agree with that?
[19] A: My understanding is it is putting	[18] MR. GABRIEL: Objection to form.
[20] things out into the network KaZaA that either	
[21] misrepresents the content or for some reason is not	[20] A: I have no way of knowing if that's
22 what it says to be.	[22] Q: So is it your testimony that you are
[23] MR. BECKERMAN: I will mark this as	[23] not knowledgeable about pollution?
[24] Exhibit 9. It is a paper entitled	[24] MR. GABRIEL: Objection to form.
[25] "Pollution in P2P File Sharing Systems."	[25] Q: Are you knowledgeable about

Page 77	Page 7
[1] Jacobson	[1] Jacobson
[2] pollution?	21 person using it still using it after he's
3 A: Only to the extent that I know what	[3] disconnected from the internet?
43 it is.	[4] MR. GABRIEL: Objection to form.
[5] Q: And that's the sole extent of your	[5] A: Depending on how they are connected,
6 knowledge?	[6] the dynamic address may be dropped.
[7] A: Yes.	[7] Q : You're saying they could end their
[8] Q: And are you familiar with the	[8] connection to the internet and still — and the
g distinction between content pollution and metadata	[9] dynamic IP address stays in effect and then if they
o pollution?	[10] turn it back on, they could pick up the same exact
A: I just now read their classification.	[13] dynamic IP address? Is that your testimony?
Q: Is it the first time you ever learned	[12] MR. GABRIEL: Objection to form.
of the distinction between those two terms?	[13] Lack of foundation.
4] A: Yes.	[14] A: If the device that issues the dynamic
5] Q : So it would be fair to say that your	[15] address can detect the other device being turned
expertise does not extend to the nature and extent	[16] off, then the dynamic IP address can be released.
and methods of pollution on KaZaA?	[17] Otherwise, the dynamic address could still be
18] A: Yes.	[18] assigned to that device.
9 Q: When you in your report refer to	[19] Q: Now, with a decentralized
20] analogizing an IP address to a return address and a	[20] peer-to-peer network, it's your statement in your
send address on a letter, would you say that analogy	[21] report that a request is sent to each neighbor and
is somewhat incorrect?	[22] each neighbor sends the request to the next neighbor
A: There is probably no perfect analogy	[23] and so on. Did you mean that literally?
but it's a reasonable analogy to use for a lay	[24] A: You said decentralized?
explanation.	[25] Q : Yes.
Page 78	Page 8
[1] Jacobson	[t] Jacobson
[2] Q : Is it fair to say that your postal	[2] A: Yes.
3 address is to your home whereas an IP address would	[3] Q: To neighbors? What do you mean by
[4] be more like an address to a timeshare that you	[4] neighbors?
[5] might occupy for a split second or for a minute?	[5] A: The decentralized peer-to-peer
[6] MR. GABRIEL: Objection to form.	[6] software referred to the peer-to-peer entities that
A: The IP address delivers to a device	[7] they talked directly to as neighbors.
[8] or location.	[8] Q : So you are using it figuratively to
[9] Q: But not a person?	describe other computers?
10] A: That's correct.	[10] A: Yes.
11] Q: And not for any given amount of time,	[11] Q: You say the semi-decentralized
12] just as long as the internet connection stays on	[12] peer-to-peer network uses a central index server.
is line?	[13] Is that correct?
MR. GABRIEL: Objection to form.	[14] A : Yes.
A: Define what you mean by internet	[15] Q : And that if one server node quits,
16] connection.	[16] the other nodes can still function?
Q: You don't know what I mean by an	[17] A : Yes.
18] internet connection?	[18] Q : Now, when you access a screen shot,
A: There are multiple definitions.	[19] are you accessing a file or are you accessing an
Q: Why don't you give me the most common	[20] index of files?
21] meaning.	[21] A: When you query the server, what you
22] A: There is an application layer	[22] get is an index of the files.
[23] connection which is used by individual applications	[23] Q : Now, is it your testimony that every
[24] to communicate.	[24] time you see a screen shot in KaZaA, you're seeing
[25] Q: With a dynamic IP address is the	

Page 8 ⁻ [1] Jacobson	rage os
[2] MR. GABRIEL: Objection to form.	[1] Jacobson
A: There are many ways you can query	[2] Exhibit 11 a printout, page numbers 49 to
[4] KaZaA, one of which is to ask all the files that are	
[5] contained on a particular machine.	[4] (Defendant's Exhibit 11, printout of [5] page numbers 49 to 187, marked for
[6] Q: How would you frame such a query?	[6] identification, as of this date.)
[7] A: You frame the query with the address	[7] MR. BECKERMAN: And you already
[8] of the machine that contains the information.	(a) have Exhibit 6 and we have Exhibit 12,
Q: And do you know how MediaSentry	(a) which is a screen shot, pages 199 to 224.
(10) queried?	[10] (Defendant's Exhibit 12, printout of
[11] A: I don't know the exact techniques	[11] pages 199 to 224, marked for identification,
[12] that they used.	[12] as of this date.)
[13] Q: Now you said in your report that you	[13] MR. BECKERMAN: And we will mark as
[14] will demonstrate how defendant's internet account	[14] Exhibit 13 a one-page printout marked as
[15] and computer were used. Would you now demonstrate	[15] page number 48.
[16] for me how you can — show me how you can	(16) (Defendant's Exhibit 13, one-page
[17] demonstrate that the defendant's computer was used?	[17] printout of page numbered 48, marked for
[18] A: Which line of the report are you?	[18] identification, as of this date.)
[19] Q: What?	[19] MR. BECKERMAN: And we will mark as
[20] A: Which line of the report are you	[20] Exhibit 14 a printout of pages numbers 188
[21] referring to?	[21] through 198.
[22] Q : Paragraph 15.	[22] (Defendant's Exhibit 14, printout of
[23] A: Would you restate the question.	[23] pages numbers 188 through 198, marked for
[24] (Record read.)	[24] identification, as of this date.)
[25] A: Identifications through the IP	[25] Q: Now would you please demonstrate how
Page 82	Page 84
[1] Jacobson	[i] Jacobson
2 address to demonstrate which computer it is.	[2] you can show that it's the defendant's computer that
[3] Q : No, I'm asking you to demonstrate it	[3] was used.
[4] now for me. You said, "I will testify to the	[4] MR. BECKERMAN: Off the record.
[5] procedures and results obtained by MediaSentry	[5] (Recess taken.)
[6] coupled with the information complied by defendant's	[6] Q: Please demonstrate that the
[7] ISP to demonstrate the defendant's internet account	[7] defendant's computer was used.
[8] and computer were used to download and upload	[8] MR. GABRIEL: If I can ask you, if
[9] copyrighted music from the internet using the KaZaA	[9] you refer to an exhibit, please say what
[10] peer-to-peer network."	[10] the exhibit is.
[11] Please demonstrate for me that	[11] THE WITNESS: Yes.
[12] defendant's computer was used to download and upload	[12] Q: Before we go into that, let me just
(19) copyrighted music.	[13] ask you something.
[14] A: I can demonstrate through the	[14] When you say "defendant's computer"
[15] MediaSentry material.	[15] in your report, you're referring to the computer
[16] Q: Okay.	[16] that was accessed by MediaSentry; is that correct?
[17] A: I don't have the MediaSentry [18] material.	A: I'm referring to the — yeah, the
	[18] computer with the IP address shown in Exhibit 6 that
[19] MR. BECKERMAN: We will mark as [20] Exhibit 10 a two-page printout, page	[19] we discussed earlier.
[21] numbers 46 to 47.	[20] Q: And it's your contention that the
[22] (Defendant's Exhibit 10, two-page	[21] computer as to which you examined the hard drive is
[23] printout of page numbers 46 to 47, marked	[22] a different computer than the one that was accessed
[24] for identification, as of this date.)	[23] by MediaSentry; is that correct?
[25] MR. BECKERMAN: We will mark as	[24] A: Yes.
produced the state of the state	[25] Q : Now, going to the first computer, how

Page 85	Page 87
[1] Jacobson	[1] Jacobson
[2] do you know that it was defendant's computer?	[2] to whether it was defendant's computer. All you
A: We don't have the Verizon information	[8] know is that the defendant's name is associated with
[4] in front of me. By using the subpoenaed records	[4] the internet access account; is that correct?
[5] from Verizon they show —	[5] MR. GABRIEL: Objection to form.
[6] Q : They were asked —	[6] A: I know that the — yeah, the computer
[7] I'm sorry. I cut you off.	🛮 associated with that user account, an IP address was
[8] They were asked to identify the owner	B used.
[9] of an account that had used an IP address; is that	[9] Q : But you don't know whose computer it
[10] correct?	[10] actually was, do you?
[11] A: Yes.	[11] A: No.
[12] Q : How would that tell you who owned the	[12] Q : But your report said it was
[13] computer?	[13] defendant's computer, so I think you will agree that
[14] A: It tells me the individual who has	[14] that's an imprecision in your report.
[15] the account that was associated with that IP	[15] MR. GABRIEL: Objection to form.
[16] address; therefore, that computer at the time.	[16] Lack of foundation. Misstates the report.
[17] Q: Let's say — not me, that would be	[17] A: The report states that I have
[18] too improbable. Let's say you had a visitor at your	[18] identified through the internet service provider the
[19] home and that visitor plugged into your internet	[19] account holder of the IP address.
[20] connection with his laptop. Would that make his	[20] Q : The report says that you will
[21] computer your computer?	[21] demonstrate that it was defendant's computer that
[22] A: Without knowing the configuration of	[22] was used. How can you demonstrate that the computer
[23] your home network, I couldn't.	[23] belonged to the defendant? You don't know who it
[24] Q : Let's say you had a wired internet	[24] belonged to.
[25] connection at your home, you had a cable modem and	[25] MR. GABRIEL: Objection to form.
Page 86	Page 88
[1] Jacobson	[1] Jacobson
[2] someone was visiting who had a laptop, a friend of	[2] Lack of foundation.
[3] yours or relative, and that person asked if they	[3] Q : You are under oath.
[4] could plug in their laptop and check their e-mail.	[4] A: It's my opinion that given the
[5] Okay?	[5] information from MediaSentry and from Verizon, that
Now, the IP address would show up as	[6] that IP address was associated with the defendant
7 your address, would it not? The dynamic IP address?	[7] and computers or at least in presence of the
[8] A: It depends.	[8] defendant.
Q: If I sent a query like the record	g Q: There are two parts to your
[10] industry sent to Verizon, I would get you, right?	[10] statement. You say the defendant's internet account
[11] If you are the person who pays for the internet	[13] and computer. Right now I'm not asking you about
[12] access at your home.	[12] the internet account. I'm asking about the
[13] A: If the ISP allows multiple devices	[13] computer. You will agree, then, will you not, that
[14] directly connected to their internet service.	[14] when you said computer that you don't actually know
[15] Q: And it wouldn't have been your	[15] if it was defendant's computer or not?
[16] computer, it would have been your friend's or	[16] A: It is the computer associated with
[17] relative's computer. Correct?	[17] the account of the defendant.
[18] MR. GABRIEL: Object to the form.	[18] Q : But you don't know if it was
[19] Lack of foundation.	[19] defendant's computer?
[20] A: The scenario you laid out. If the	[20] A: I know that the computer was
[21] ISP allowed multiple IP addresses, then it would	[21] associated with the defendant's internet account.
[22] have associated an IP address with that particular	[22] Q : But you don't know if the defendant
[23] device.	[23] owned it?
[24] Q : So when you say it was defendant's	[24] A: Nowhere is purchase information.
computer, you don't actually have any knowledge as	[25] Q: And you do not know if the defendant

D 00	
Page 89 [1] Jacobson	Page 91
2 ever used it?	[1] Jacobson
A: I know that the computer associated	[2] will testify based on the forensic examination of
[4] with that address was used.	[8] the hard drive that was copied from the computer
[5] Q: Now, demonstrate how you know that	[4] owned by the defendant."
[6] that computer was used to upload and download	Now, are you saying there that the
[7] copyrighted music from the internet.	[6] second computer which you claim is different than
A: Well, I know which computer through	[7] the first one was owned by the defendant also?
[9] Exhibit 6. That is the primary piece of evidence.	[8] A: I'm lost in the second, first and —
[10] I know that material was downloaded	[9] Q: It's your words. It's your
[11] through Exhibit 10. I know music was made available	[10] testimony. It's your declaration, your unsigned
through Exhibits 10, 11, 12 and 14, and I know that	[11] draft which Mr. Gabriel asked you to submit to him
the music was downloaded through Exhibit 11.	[12] so he could have input into the final. But this was
ISD DEGLEDIT TOTAL	[13] your wording I assume. Right?
	[14] A : Yes.
[15] mark as Exhibit 15 the undated October	[15] Q: This was wording that was not fed to
[16] Teport.	[16] you by Mr. Gabriel?
(Defendant's Exhibit 15, undated (18) October report, marked for identification,	[17] A: Correct.
[19] as of this date.)	[18] Q : So you say the computer owned by the
0.397	[19] defendant. Now you are saying that the second
[20] Q: When did you provide this report to [21] Mr. Gabriel?	[20] computer was owned by the defendant.
4 0 1 0 0 1	[21] A: I'm saying the hard drive that I was
O 7771	[22] given to examine was reported to have been owned by
A 7.1	[23] the defendant and I examined that hard drive and
	[24] came up with that conclusion.
[25] Q: Why is it not dated?	[25] Q : So is it your testimony that she
Page 90	Page 92
[1] Jacobson	[1] Jacobson
[2] A: It was a draft report.	[2] owned both computers?
Q: Have you ever submitted an unsigned	MR. GABRIEL: Objection to form.
[4] or undated draft to Mr. Gabriel before?	[4] A: It's my testimony that the hard drive
[5] A: I could have. I don't recall.	[5] contained no evidence of KaZaA and that hard drive
[6] Q: Have you ever submitted unsigned	[6] was reported to have belonged to the computer owned
[7] drafts or undated drafts to anyone in Mr. Gabriel's	[7] by the defendant.
[8] firm before?	[8] Q: What basis do you have for saying
A: Again, I could have. I don't recall.	19) that the computer was owned by the defendant?
[10] Q: Is it your practice to submit	[10] A: Based on the chain of evidence
[11] unsigned, undated drafts before submitting your	that — the chain of custody that followed the
[12] final reports to them?	[12] forensic disk.
[13] A: The standard report goes in without	[13] Q: So it is your testimony that Marie
[14] their review.	[14] Lindor, who is a home health aide who has never even
[15] MR. GABRIEL: I would like the	[15] used a computer, it is your testimony that she owns
[16] record to reflect that there is a copying	[16] two computers?
[17] issue in Exhibit 15. Page DJ0069 was	[17] MR. GABRIEL: Objection to form.
[18] stamped "Draft." I note in the copying	[18] Lack of foundation. Misstates testimony.
[19] the draft was too light to copy	[19] Q: Is that your testimony? She has
[20] apparently.	[20] never even used a computer in her life, that she
[21] Q: Did Mr. Gabriel tell you not to issue	[21] owns not one, but two computers?
[22] a final report, but to issue a draft instead?	[22] MR. GABRIEL: Same objection.
[23] A: Yes.	[23] A: What I am stating is that the hard
[24] Q: Now, turning to Page DJ0071,	
[25] Paragraph 17, the second sentence, which says, "I	peen owned by the defendant did not contain KaZaA or
	•

Page 9	93 Page 9:
[1] Jacobson	[1] Jacobson
[2] any of the copyrighted or any music files.	[2] Q: In Paragraph 21 you use the words
[3] MR. BECKERMAN: Let's mark as	[3] that the computer was registered to the defendant.
4] Exhibit 16 your April report.	[4] How does a computer get registered to a person?
(Defendant's Exhibit 16, Dr. Douglas	[5] A: Through the IP address it is
[6] W. Jacobson's April report, marked for	[6] registered. Verizon indicated the subscriber.
7] identification, as of this date.)	[7] Q : So you don't mean that the computer
Q: Now, on Page DJ0006, Paragraph 19, in	By was registered to the defendant. You mean the IP
g the last line you use the words "being distributed."	[9] address was identified by Verizon as having been on
oj A: Yes.	[10] the internet access account that was in the name of
q: Were you using "distributed" in the	[11] the defendant. Is that correct?
2 legal sense of the word or in the generic sense of	[12] A: The IP address of, was registered to
if the word?	[13] the defendant on said computer. So it says that the
4] MR. GABRIEL: Objection to form.	[14] IP address.
a: I'm not a lawyer so I don't know the	
ej legal — I guess I am not clear as to what	[15] Q: Not the computer. The IP address was [16] registered?
7 difference you are trying to make between the two	
s words.	
9 Q: Where did you get the word	[18] Q : 21 states that the computer that had
of "distributed"?	[19] the IP address was registered to the defendant.
A: In that paragraph I'm referring to	[20] "I will testify based on all of the
22] the fact that the files were on the peer-to-peer	[21] information" —
23] network and by the nature of the peer-to-peer	[22] A: Right, right.
19 network they are being distributed.	[23] Q : So you don't mean the computer was
Q: Do you know of any instances in which	[24] registered, you mean the IP address was registered?
	[25] A: Yes.
Page 9 Fig. Jacobson	
	[1] Jacobson
27 they were distributed to anyone other than	[2] Q : Now, in Paragraph 22 you state that
[3] MediaSentry?	[3] you could prove from the MediaSentry user log that
A: Given the nature of the peer-to-peer	[4] the music found on the defendant's computer was
[5] system, there is a high probability that they	[5] downloaded from other users on the internet. How
[6] were — well, strike that.	[6] would you have done that?
Distributed, they are being offered	A: By using the metadata tags, in
[8] for distribution by the fact that they were on the	[8] particular the description tag. For example,
9 peer-to-peer network.	[9] Page 0106.
og Q: The question was whether they had	[10] MR. GABRIEL: What exhibit?
actually been distributed, not whether they had been	[14] THE WITNESS: I'm sorry.
27 offered for distribution.	[12] Exhibit 11.
MR. GABRIEL: Objection to form.	[13] A: Page 10106 indicates in the
A: The KaZaA program made those files	[14] description "ripped by" and had several — several
s available through the supernode. Anybody —	[15] cases "ripped by X7" and so on, and that's
Let me strike that and start over.	[16] throughout the document.
17) The KaZaA program made the files	[17] Q: A metadata is text, is it not?
as available on her computer for distribution and given	[18] A: Yes.
s) the nature of the peer-to-peer network and the	[19] Q: Metadata can be changed, can it not?
number of users, there is a high probability that	[20] A: Metadata can be changed and is not
songs were actually uploaded from that computer.	[21] present on original CD recordings.
Q: Do you have any knowledge of any	[22] Q: And it can be changed easily through
sy specific instances of any uploads other than to	[23] commonly available software, can it not?
24] MediaSentry?	[24] A: Yes.
25] A: No.	[25] Q: And could it be changed through KaZaA

	Page 97	Poge 00
[1]	Jacobson	Page 99
[2]	software?	[2] on Exhibit 6.
[3]	A: Yeah. I believe KaZaA lets you edit	[3] Q: How does that show you that there is
[4]	the metadata.	[4] no wireless router?
[5]	MR. BECKERMAN: I would like to	A: Again, as I testified earlier, here
[6]	mark as Exhibit 17 a page of handwritten	[6] at the source address and that the KaZaA IP address
[7]	notes.	[7] matched.
[8]	(Defendant's Exhibit 17, page of	[8] Q: And that tells you that there was no
[9]	handwritten notes, marked for	[9] wireless router?
[10]	identification, as of this date.)	[10] A: Again, those are all public IP
[11]	Q: When were these notes prepared?	[11] addresses on both the computer and the device that
[12]	A: These notes were prepared prior to	[12] put the IP packet onto the internet, both at the
[13]	the submission of the October — let's see which	[13] same IP address.
[14]	exhibit. Exhibit 15.	[14] Q : And that's your sole basis for your
[15]	Q: Are there any other notes which you	[15] conclusion?
[16]	jotted down which you did not preserve from the date	[16] A : Yes.
[17]	the hard drive was furnished to you?	[17] MR. BECKERMAN: I would like to
[18]	A: No.	[18] mark as Exhibit 19 a two-page letter from
[19]	Q: What are the letters at the top	[19] Verizon.
[20]	right?	[20] (Defendant's Exhibit 19, two-page
[21]	A: DHCP name server.	[21] letter from Verizon, marked for
[22]	Q: What are the three IP addresses below	[22] identification, as of this date.)
[23]	that?	[23] Q: Is that the source for your
[24]	MR. GABRIEL: Objection to form.	[24] information as to whose access account it was?
[25]	A: Those are the IP addresses of the	[25] A : Yes.
[25]	A: Those are the IP addresses of the Page 98	[25] A : Yes.
[1]	Page 98 Jacobson	[25] A : Yes.
[1]	Page 98 Jacobson name server that were on her computer.	[25] A : Yes.
[1]	Page 98 Jacobson name server that were on her computer. Q: What does that mean?	[25] A : Yes. Page 100 [1] Jacobson
[1] [2] [3] [4]	Page 98 Jacobson name server that were on her computer. Q: What does that mean? A: The name server, my best analogy is a	Page 100 [1] Jacobson [2] MR. BECKERMAN: I would like to
[1] [2] [3] [4] [5]	Page 98 Jacobson name server that were on her computer. Q: What does that mean? A: The name server, my best analogy is a giant phone book that converts names and IP	Page 100 [1] Jacobson [2] MR. BECKERMAN: I would like to [3] mark as Exhibit 20 a resume, a one-page
[1] [2] [3] [4] [5] [6]	Page 98 Jacobson name server that were on her computer. Q: What does that mean? A: The name server, my best analogy is a giant phone book that converts names and IP addresses. So when you type in www.google.com, you	Page 100 [1] Jacobson [2] MR. BECKERMAN: I would like to [3] mark as Exhibit 20 a resume, a one-page [4] resume, page number DJ0076.
[1] [2] [3] [4] [5] [6]	Page 98 Jacobson name server that were on her computer. Q: What does that mean? A: The name server, my best analogy is a giant phone book that converts names and IP addresses. So when you type in www.google.com, you get the IP address of Google.	Page 100 [1] Jacobson [2] MR. BECKERMAN: I would like to [3] mark as Exhibit 20 a resume, a one-page [4] resume, page number DJ0076. [5] (Defendant's Exhibit 20, one-page
[1] [2] [3] [4] [5] [6]	Page 98 Jacobson name server that were on her computer. Q: What does that mean? A: The name server, my best analogy is a giant phone book that converts names and IP addresses. So when you type in www.google.com, you get the IP address of Google. Q: What is the entry at the bottom,	Page 100 [1] Jacobson [2] MR. BECKERMAN: I would like to [3] mark as Exhibit 20 a resume, a one-page [4] resume, page number DJ0076. [5] (Defendant's Exhibit 20, one-page [6] resume, page number DJ0076, marked for
[1] [2] [3] [4] [5] [6]	Page 98 Jacobson name server that were on her computer. Q: What does that mean? A: The name server, my best analogy is a giant phone book that converts names and IP addresses. So when you type in www.google.com, you get the IP address of Google. Q: What is the entry at the bottom, "7704 repaired"? What is that a reference to?	Page 100 [1] Jacobson [2] MR. BECKERMAN: I would like to [3] mark as Exhibit 20 a resume, a one-page [4] resume, page number DJ0076. [5] (Defendant's Exhibit 20, one-page [6] resume, page number DJ0076, marked for [7] identification, as of this date.)
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Page 101	Page 103
Jacobson	[i] Jacobson
2) an expert witness in this case?	[2] A : Yes.
3) A : Yes.	[3] Q: What does that say?
4] Q: Did you not have screens? When you	[4] A: "Document findings."
s used EnCase, didn't you look at a computer screen?	[5] Q : Did you know that you were going to
6) A: Yes.	6 be giving sworn testimony in this case, including
7] Q: Did you save what was on that screen?	7 your December declaration and possible deposition
8) A: No.	[8] and trial testimony?
Q: Did you generate reports?	A: Would you reread the question back.
oj A: No.	[10] (Record read.)
Q: Now I'm not asking you if you printed	
out reports or saved reports. I'm asking you if you	
g generated reports.	[12] there were no scheduled depositions.
4] A: No.	[13] Q : So you thought it was okay not to
A 0 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	[14] document your findings?
g in EnCase at all, did you?	[15] MR. GABRIEL: Objection to form.
	[16] A: I did document my findings, as shown
	[17] in Exhibit 17.
Q: Did Mr. Gabriel tell you to do that? At No.	[18] Q: When you say there were three user
9 A: No.	[19] names of interest, what did you mean by that?
og Q: So did you feel that you could just	[20] A: In a Windows machine there are
1] review it on EnCase and then come and testify from	[21] default users that are created, like Administrator
2) memory at a trial? Is that what you intended to do?	[22] and so on, that come with the installation of
s A: I examined the hard drive, found no	[23] Windows. So these were users that were added above
4] evidence of file sharing software or audio files,	[24] and beyond the default installation.
sı and so there was nothing to document.	[25] Q: So it doesn't actually tell you who
Page 102	Page 104
Jacobson	[1] Jacobson
2] Q: So you didn't feel was any need to	[2] used the computer, does it? It just tells you the
31 create documentation of what your study had shown?	[9] user names?
A: There was no files to document.	[4] A: Yes, these are user names for that
g: Is that because it did not	[5] computer.
6] corroborate Plaintiff's case in any way?	© Q: And if someone was logged on under a
7] MR. GABRIEL: Objection to form.	particular computer name and the computer was kept
e Argumentative.	[8] on and another individual sat down and started using
A: The testimony says I found no KaZaA	[9] the computer, you wouldn't know who that was, would
of or MP3 files and, therefore, there was nothing to —	[10] you, from the user name?
1] there were no screen shots to capture.	[11] A: That's correct.
2] Q : Do you have any idea why the case	[12] Q: Are you familiar with the declaration
al hasn't been dropped by now?	[13] that was given by the expert witnesses in the
MR. GABRIEL: Objection to form.	[14] Netherlands in the foundation case, the witness
5] Lack of foundation.	[15] statement of Henk Sips and Johan Pouwelse?
6] A: I don't get involved with — so no.	[16] A: I would have to see the document.
7] MR. BECKERMAN: I would like to	MR. BECKERMAN: I would like to
aj mark as Exhibit 21 a one-page document	[18] mark this as Exhibit 22. It is a
9 with a flowchart.	[19] three-page document entitled "Witness
	[20] statement of Henk Sips and Johan
(Defendant's Exhibit 21, one-page	,, ,
	_
en document with a flowchart, marked for	[21] Pouwelse."
document with a flowchart, marked for identification, as of this date.)	[21] Pouwelse." [22] (Defendant's Exhibit 22, three-page
	[21] Pouwelse."

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[1] Jacobson	[1] Jacobson
[2] MR. GABRIEL: I would like to	[2] user might have violated copyright law?
[3] interpose a belated objection to the	[3] MR. GABRIEL: Objection to form.
[4] characterization of the document as a	[4] Lack of foundation.
[5] declaration.	[5] A: They don't define what they mean by
[6] MR. BECKERMAN: I agree. The	[6] superpeer hopping, so
[7] correct characterization should be as a	[7] Q: Don't you think they are referring to
[8] witness statement. So stipulated.	[8] the hopping from one supernode to another supernode,
MR. GABRIEL: Thank you.	[9] shutting one down and starting another?
q: Have you ever seen this document	[10] MR. GABRIEL: Objection to form.
iii before?	[11] Lack of foundation. Calls for
A: I've seen it.	[12] speculation.
(13) Q: You have seen it?	[13] Q : You are the expert. You have
A: I have seen it.	[14] indicated that you have studied KaZaA in depth.
(15) Q: In what context?	[15] Isn't it a fact that a single search on KaZaA can
A: I believe my wife might have e-mailed	[16] hop from one supernode to another?
it and made a copy of it.	[17] A: A search on KaZaA can prop you will
18] Q: Did anyone from the Plaintiff's law	[18] gate from one supernode to another.
ig firm send you a copy of it?	[19] Q: So don't you think that's what they
20] A : No.	[20] are referring to when they say superpeer hopping?
Q: Did you ever access it yourself on	[21] MR. GABRIEL: Objection to form.
22] the internet?	[22] Lack of foundation. Calls for
A: Either she sent it to me directly or	[23] speculation.
24] a link to it, so I don't know if I got it as a	[24] A: I have not heard that term used, so I
25] document or as a link to a document.	_ [25] don't know
Page 106	Page 108
[1] Jacobson	[1] Jacobson
[2] Q : Do you agree with the statement at	[2] Q: Would you agree that the fact that a
(3) the bottom of Page 2 that detailed checks are,	3 single search can switch from one supernode to
[4] therefore, required?	[4] another to another to another would constitute a
[5] MR. GABRIEL: Objection to form.	[5] technical problem in conducting such an
[6] Lack of foundation.	[6] investigation?
A: Would you read the question.	MR. GABRIEL: Objection to form.
[8] (Record read.)	A: I would characterize it more as a
(9) A: I don't really know. They didn't	(9) technical inconvenience than a problem.
10) describe what they meant by detailed checks so I	[10] Q: So you would agree that it is a
11] can't — I can't comment on that.	[11] technical inconvenience that needs to be overcome?
12] Q: We will turn to the next page. It	[12] A: I'm not saying that it hasn't been
13] says, "We believe that the following procedure takes	[13] overcome, if that's what your question is.
14] the necessary precautions when trying to establish	[14] Q : My question is exactly what it said,
15] if a user is making copyrighted works available for	cur that it is a technical problem that needs to be
for download," and then they list certain procedures.	[15] that it is a technical problem that needs to be
——————————————————————————————————————	[16] overcome.?
Do you agree that those procedures	
Do you agree that those procedures take the necessary precautions?	[16] overcome.?
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[1] Jacobson	[1] Jacobson
A: If by precautions you mean procedures	[2] Q: Does the fact that MediaSentry
[3] to understand that that can happen, yes.	[3] observed the computer solely through the internet
[4] Q : Would you agree that NAT translation	[4] and did not have physical access to the computer
is a technical problem in conducting such an	[5] itself limit its observational power?
[6] investigation?	[6] MR. GABRIEL: Objection to form.
MR. GABRIEL: Objection to form.	[7] A: Obviously weren't able to physically
[8] Lack of foundation.	[8] view the individual typing on the keyboard.
[9] A: I would agree that that process —	[9] Q : Is the internet secure and safe and
10] procedures and processes need to be put in place to	[10] reliable?
n handle NAT translation.	[11] MR. GABRIEL: Objection to form.
2) Q: And you agree that firewall relaying	[12] A: I guess it depends on how you define
is a technical problem that needs to be considered	those terms, Secure? No. The end nodes on the
during the process and procedure?	[14] internet often are not secure. Safe? I guess I'm
MR. GABRIEL: Objection to form,	[15] not sure what you are talking about as far as
A: I would agree that firewall relaying	
is something that needs to be considered during the	[16] safety.
is process and procedure.	Q: Can people hack into other people's
Q: In the next paragraph they refer to	[18] systems?
pollution. Would you agree that pollution is a	[19] A: Yes. I would wrap that under the
problem that needs to be taken into account in	[20] security umbrella.
_	[21] Q: Isn't it a fact that you teach a
22 conducting such an investigation?	[22] course on how to do that?
MR. GABRIEL: Objection to form. 4 Lack of foundation.	[23] A: Yes.
	[24] Q: Isn't it a fact that you teach
A: I think processes and procedures need	[25] students how to crack passwords?
Page 110	Page 112
[1] Jacobson	[1] Jacobson
[2] to be put in place to deal with the issue of	[2] A : Yes.
g pollution.	[3] Q : And you teach them about spoofing?
[4] Q: Does KaZaA have limitations in file	[4] A: Yes.
searching?	[5] Q : What is spoofing?
[6] A: If by limitations you mean is one	A: Spoofing is pretending to be somebody
17] user limited to the scope of where they can search	η else.
[8] across the entire KaZaA network, yes.	[8] Q : What is redirection?
[9] Q: What is meant by the term "computer	A: Depends on where we are talking about
o hygiene precautions"?	[10] it, but redirection is typically forcing the traffic
MR. GABRIEL: Objection to form.	[11] to go somewhere else or forcing the user to go
2] Lack of foundation.	[12] somewhere else.
A: It is my opinion what they are	[13] Q : Does the existence of a firewall
talking about is it's possible to get data from	[14] guarantee security?
s multiple locations for one file and if you don't	[15] A: No.
take care watching where those — where the data	[16] Q: Isn't it a fact that when you teach a
77 comes from and how much data is produced, that you	[17] course in information warfare, most of the people
18] could end up marking IP addresses that have	[18] will find some vulnerabilities in the network that
g transferred no data.	[19] is being attacked?
Q: What is multi-peer downloading	MD CARDIEL OLD IN A
21] contamination?	
22] MR. GABRIEL: Objection to form.	[21] A: In the course I teach, I set up a
23] Lack of foundation.	[22] corporate environment that has vulnerabilities
A rest	[23] associated with it as part of the exercise.
24] A: That goes to what I was saying, 25] multiple peer nodes contributing to a single file.	Q: And the vulnerabilities that you
	[25] build in are not unheard of in the real world; is

Page 113	Page 115
[1] Jacobson	[1] Jacobson
[2] that correct?	[2] evidence as to whether it had been — the hard drive
[3] A: That's correct.	[3] had been changed or anything like that?
[4] Q: So an IP address can be spoofed,	[4] A: I wasn't directed to do anything more
[5] right?	5 than that, although as part of the examination I
[6] A: Yes.	[6] did — as noted in Exhibit 17, I noted, for example,
[7] Q: And a MAC address?	71 that the operating system was repaired on July 7th
[8] A: Yes.	[8] of '04.
[9] Q : Did you ever recover the registry	[9] RQ MR. BECKERMAN: I call for the
no entries from either of the two computers that you	[10] production of those register entries.
have been testifying about?	[11] MR. GABRIEL: They don't exist.
A: I recovered the register entries from	[12] The witness doesn't have a duty to create
the hard drive that I examined.	[13] them and you have your image of his hard
(14) Q : Well, if you recovered them, where	[14] drive. You can produce them yourself.
[15] are they? How come you never turned them over to	[15] Q: So EnCase has no way of backtracking
[16] me?	[16] your project?
A: In EnCase you open them up as a file	[17] A: The only record it keeps is when you
[18] viewer and you can examine them by just looking at	[18] specifically write something to a report file; when
[19] them.	[19] you see something, you explicitly say, "Put this in
[20] Q : So you viewed them but didn't	[20] a report."
[21] preserve a record of it?	[21] Q : So you were just looking in the
[22] A: The hard drive image is still in my	[22] registry for evidence of KaZaA? That's it?
[23] possession.	[23] A: I was looking for the IP address and
Q: But when you viewed it in EnCase, you	[24] as shown in Exhibit 17, I was looking for evidence
[25] didn't make any documentation of what you saw in the	[25] of dates about the system, so the date the system
Page 114	Page 110
[1] Jacobson	[i] Jacobson
[2] registry entries?	[2] was repaired.
[3] A: I was looking for evidence of the	[3] Q: Do some users of KaZaA fool people
[4] KaZaA program and found none.	[4] with fake content?
[5] Q : But you actually had the register	[5] MR. GABRIEL: Objection to form.
[6] entries in front of you on the screen and you didn't	[6] A: I don't have any firsthand experience
[7] make any record of that?	7) with that.
[8] A: There wasn't anything to make a	[8] Q : What is a MAC address?
[9] record of.	9 A: A MAC address is referred to as the
[10] Q : There were no register entries?	[10] physical address, which is the address used to
A: There were register entries, but none	[11] transfer data packets across local area network.
(12) associated with KaZaA.	[12] Q: Does the cable modem have a MAC
(13) Q : You were told by Mr. Gabriel just to	[13] address?
[14] look for things that incriminated the defendant?	[14] A: Yes.
MR. GABRIEL: Objection to form.	[15] Q: Does a wired router have a MAC
[16] Lack of foundation. Argumentative.	[16] address?
[17] Q : Is that your testimony? Were you	[17] A: Yes.
[18] directed only to find things that helped the	[18] Q: Does a wireless router have a MAC
19 plaintiffs win their case?	[19] address?
MR. GABRIEL: Same objections.	[20] A: Yes.
A: I was told to examine the hard drive	[21] Q : Does an ethernet card have a MAC
[22] for evidence of file-sharing software and evidence	[22] address?
[23] of MP3.	[23] A: Yes.
Q: That's all you were told to examine	[24] Q: Is a network card a synonym for
[25] it for? So you weren't told to examine it for	[25] ethernet card or is it something else?
· · · · · · · · · · · · · · · · · · ·	less concentre card of 19 if something cisc.

[2] Q: So the answer is? [3] A: Could you reread the original [4] question. [5] (Record read.)
[3] A: Could you reread the original [4] question. [5] (Record read.)
[4] question. [5] (Record read.)
[5] (Record read.)
m A. Ano years dellating also and also also also also also
[6] A: Are you talking about which address
[7] it presented to the ISP?
Q: You can't answer the question the way
[9] it's asked?
A: I don't know where —
[11] Again, as the packet moves through
[12] the internet, every device that picks up the packet,
it retransmits and creates a new MAC address.
[14] Q: Do you know whether it connected to
[15] the internet directly or through another device's
[16] MAC address? If you don't know you can say you
[17] don't know.
[18] MR. GABRIEL: Objection to form.
[19] You can answer the question.
[20] A: Stated the way it's stated, no, I
1211 don't know.
[22] Q : How many devices accessed the
internet through Marie Lindor's internet access
1241 account?
25 A: I have evidence of one device with
Page 12
I- cabana
[1] Jacobson [2] the IP address that we have talked about in
[8] Exhibit 6, that one device being connected to the
internet during the times as described in
[5] Exhibit 16.
[6] Q: How many MAC addresses have accessed
7 the internet through Marie Lindor's account?
B; A: I have no way of knowing.
g Q: When is a MAC address assigned to a
[10] computer?
[11] A: MAC addresses are actually assigned
[12] to the network cards by the network card vendor.
[13] Q: And is that also true for any other
network device?
[15] A: In the ethernet world, yes. MAC
[16] addresses are assigned. Blocks are assigned to the
[17] vendors and the vendors allocate individual
[18] addresses.
[19] Q: Did the computer which you examined
20] have a wireless card? The computer whose hard drive
[21] you examined, did that have a wireless card?
22 A: All I received was the hard drive, I
23 did not receive the — 24 Q : So you don't know?

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[1] Jacobson	[1] Jacobson
[2] Q : Can an ethernet card be removed from	[2] address?
(3) one PC and put into another?	[3] A: Not all of which work. Correct.
[4] A: If it is an actual card as opposed	[4] Q: Did you personally verify the IP
5 to — connected to — actually on the motherboard.	[5] number?
[6] Q : If you were an internet pirate or	[6] A: The IP address on the hard drive,
[7] cracker who wanted to spoof a MAC address, could you	[7] since it's DHCP, the IP address is not committed to
[8] easily find the MAC address by, let's say, finding a	[8] the hard drive.
[9] box that a cable modem had come in and just writing	[9] Q: So the answer is no, you did not
[10] down the MAC address from that?	[10] verify the IP address?
[11] MR. GABRIEL: Objection to form.	[11] A: Not on the hard drive.
[12] Lack of foundation.	[12] Q: And how did MediaSentry get the IP
[13] A: I don't know if they write the MAC	[13] address?
[14] addresses on the outside of cable modem shipping	[14] MR. GABRIEL: Objection to the
[15] boxes.	[15] extent it was asked and answered.
[16] Q : You can manually reassign a new MAC	[16] Go ahead.
[17] address, can you not?	[17] A: I don't know the exact process and
[18] A: In a lot of systems, yes.	[18] procedures that MediaSentry used.
[19] Q: What is reprogramming a MAC address?	[19] Q: So you couldn't test or verify the
[20] MR. GABRIEL: Objection to form.	[20] procedures? You didn't know what they were?
[21] A: I've never heard it quite put that	A: Given the procedures, I could test
[22] way, but my understanding would be that that would	[22] them. The method that I would use is, again, since
[23] be changing the MAC address of the device.	[23] every packet —
[24] Q : Did you or MediaSentry ever actually	[24] Q: No.The question was — I was asking
[25] know the MAC address of either of the computers?	[25] whether you verified the way that — the method that
Page 122	Page 124
[1] Jacobson	Page 124
[1] Jacobson [2] MR. GABRIEL: Objection to form.	
[1] Jacobson [2] MR. GABRIEL: Objection to form. [3] Lack of foundation as to MediaSentry.	[2] MediaSentry used. [3] A: No.
[1] Jacobson [2] MR. GABRIEL: Objection to form. [3] Lack of foundation as to MediaSentry. [4] A: I did not know the MAC address. I	[1] Jacobson [2] MediaSentry used.
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	Page 125	Page 127
[1]	Jacobson	[t] Jacobson
[2]	Q: You say it's not difficult to	[2] establishes that it was not a wireless router?
	determine whether a computer was connected with a	[3] A: In my opinion, yes.
	wireless router based on how IP's are assigned? How	[4] Q : Was KaZaA fully installed on the
	could you possibly tell from the way IP's are	[5] first computer?
	assigned whether or not it was connected to a	[6] MR. GABRIEL: Objection to form.
	wireless router?	A: If by the first computer you mean the
[8]	A: Again, back to Exhibit 6 where the	[8] computer that MediaSentry reported on, that was
	machine itself reports its IP address and so does	[9] running a KaZaA client.
	the device with the global internet address.A	[10] MR. BECKERMAN: Read back that
	wireless router is going to have an internal address	[11] answer,
	and then a public address, and so you will see a	[12] (Record read.)
[13]	discrepancy in those two IP addresses.	[13] Q: I asked you if it was fully installed
[14]	Q: How did you make that determination	[14] on the computer.
[15]	in this case? I'm not sure I follow that.	[15] MR. GABRIEL: If that's a question,
[16]	You put in your declaration on	[16] I object.
	December 19th "Based on how IP's are assigned, it is	[17] A: The KaZaA application was installed
	not difficult to determine whether a computer was	[18] and running on that computer.
	connected to the internet via a wireless router.	[19] MR. GABRIEL: The record should
	This computer was not." How did you determine that	[20] reflect that the document Dr. Jacobson was
	that computer was not connected to the internet via	[24] looking for was Exhibit 8 with the 192IP
[22]	a wireless router?	22] address.That's what he said, just for
[23]	MR. GABRIEL: Objection. Asked and	[23] clarity.
[24]	answered.	[24] Q : Other than this two-page document
[25]	A: This computer had a public IP address	[25] from Verizon which was sent to Jenner & Block law
	Page 126	Page 128
[1]	Page 126 Jacobson	Page 128 [1] Jacobson
		[1] Jacobson
[2]	Jacobson	I-
[2] [3]	Jacobson that matched the IP address that was in the packet	[1] Jacobson [2] firm, did you see anything else from Verizon? [3] A: No.
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Page 129	Page 131
[1] Jacobson	[1] Jacobson
[2] Lack of foundation.	[2] Q : I am sure Mr. Gabriel wouldn't want
[3] A: I have no way of knowing.	you to speculate. Did you make any attempt to
[4] Q : Did you see their logs?	[4] verify the information?
[5] A: All I saw from Verizon is what is	[5] A: The Verizon information?
[6] shown in Exhibit 19.	[6] Q : Yes.
7] Q: Were MediaSentry's clocks	[7] A: The only verification that I do is I
[8] synchronized with Verizon's?	[8] compare the Verizon subpoena response date, time, IP
MR. GABRIEL: Objection to form.	191 to the subpoena itself to verify that they — that
[10] Lack of foundation.	[10] Verizon is reporting back on the same data that was
[11] A: I have no way of knowing.	[11] requested.
[12] Q : How many people were assigned this IP	[12] Q: Do you know if Ms. Lindor's apartment
[13] address during the 24 hours of August 7, 2004,	[13] has a wired router?
[14] 141.155.57.198?	[14] A: I don't know anything about
[15] A: The date you said was August 7th?	[15] Ms. Lindor's apartment.
[16] Q : August 7, 2004.	[16] Q: So would you know if her apartment
[17] A: I have no way of knowing that.	[17] had a wireless router?
[18] Q: Is it true that the ISP keeps a log	[18] A: Again, I don't know anything about
[19] of all IP address assignments?	[19] Ms. Lindor's residence.
[20] MR. GABRIEL: Objection, Lack of	[20] Q : Would it have been possible to have
[21] foundation.	[21] more than one router?
[22] A: I don't know how Verizon operates	[22] MR. GABRIEL: Objection to form.
[23] internally.	[23] A: It's possible to have any number of
[24] Q : Does the log contain the name and	[24] routers. But given the IP address correlation,
[25] address of a subscriber or does it contain a MAC	[25] given the IP address in the packet in the computer
Page 130	Page 132
[1] Jacobson	[1] Jacobson
[2] address?	[2] are both republic.
[8] MR. GABRIEL: Same objection.	[3] Q : What is a wireless access point?
[4] A: I have no idea what is in their	[4] A: A wireless access point is the
[5] internal logs.	[5] wireless device that actually — it is a device that
[6] Q: How did Verizon link Ms. Lindor's	[6] actually interfaces with the wireless devices, the
7) name to that IP address?	[7] machines with wireless cards, so that actually is
MR. GABRIEL: Same objection.	[8] the base station transmitter.
[9] A: I have no knowledge about Verizon.	[9] Q: How does that relate to a wireless
[10] Q: So is it fair to say that all of your	[10] router?
[11] reports are based on the assumption that the	[11] A: That's part of a — that's part of
[12] information which you obtained from Verizon was	[12] the router. The access point we typically talk is
[13] accurate?	[13] the wireless side.
[14] A: Yes.	[14] Q : Didn't you say in your declaration
[15] Q: And you have no idea how they [16] obtained that information; is that correct?	[15] under penalty of perjury that your conclusion that
· ·	[16] it was not connected to the internet via a wireless
[17] A: I have no firsthand knowledge of how	[17] router was based in part on the registry entries
[18] they obtained that information. [19] Q: Do you have some secondhand knowledge	[18] recovered from the computer?
·	[19] A: Yes.
[20] of how they operated?	Q: And you didn't feel it was important
[21] A: I could speculate as to how they [22] might do it.	INIT TO TRENDING THOSE PERISTRY ENTRIES?
	[21] to identify those registry entries?
	[22] A: Again, since I didn't find anything
[23] Q : But you don't know? You just would	A: Again, since I didn't find anything there was nothing to document and since I can—
	[22] A: Again, since I didn't find anything

Page 133	Page 135
[1] Jacobson	[1] Jacobson
[2] Q: Well, do you think you can now go	[2] Q : You read them and made no notation or
3 generate more reports after having gone through this	[3] record or report of them; is that correct? So when
4 deposition and then come up with them at the trial	4 you say recovered —
[5] and surprise me with them?	[5] A: In a Windows PC the registries
[6] MR. GABRIEL: Objection.	[6] actually exist in several places and so to get a
[7] Argumentative. We are aware of what our	[7] view of all of them, you end up through EnCase
[8] obligations are.	[8] running their internal program which puts the
[9] Q : You said in your declaration that	p registries in a human, readable format. So that's
[10] there was no internal IP address here. What did you	[10] what I meant by the word "recovered."
[11] mean by that?	[11] Q: What did you mean when you said there
[12] A: Which declaration are you reading?	was no internal IP address here?
[13] Q : Your December 19th declaration. You	[13] A: There was no evidence of an
[14] said there was no internal IP address here.	[14] internal — of the internal addresses like the
[15] MR. GABRIEL: I don't believe you	[15] 192.168 addresses that you find when you have a
[16] marked it as an exhibit.	[16] vireless router.
[17] Q : Do you doubt that you put that in	[17] Q: So in preparing your analysis, you go
[18] your declaration?	[18] directly from the MediaSentry documents to the
MR. GABRIEL: Wait. He is talking	[19] report that you write for the RIAA lawyers and there
201 about your December declaration. He has	[20] is no intermediate work papers or analysis sheets?
not marked it as an exhibit, if that is	[21] A: Yes. That's Exhibit 18.
22 what you are looking for.	[22] Q: That's it? That's the only thing
[23] Q: Well, do you doubt that that's what	23 that you prepare before preparing your report?
[24] you said? Let me quote.	24 A: Yes.
"I base this on the data mentioned	[25] (Recess taken.)
Page 134	
[1] Jacobson	Page 136
23 above as well as on the registry entries recovered	
[3] from the computer and the fact that there was no	[2] Q : If I was on the internet right now [3] and my IP address was 195.175.1.2, how would you
[4] internal IP address here." Do you not know what	[4] determine whether I was connected through a wireless
s that statement means?	[5] router or not?
[6] A: I know what that statement means. I	[6] A: We look at the — if all I saw was a
77 assume if you are reading it, it is indeed what I —	[7] single packet from you with no other data, I
[8] I don't remember verbatim what I said	[8] couldn't make that determination. But if I saw a
(9) without seeing the report.	payload that also reported your IP address, then I
[10] MR. BECKERMAN: Please mark this as	[10] could make that determination.
[11] Exhibit 23. It is a declaration dated	[11] Q: So let's say I sent you an e-mail.
[12] December 19, 2006.	[12] Would you be able to tell?
(Defendant's Exhibit 23, declaration	[13] A: Not with every e-mail. There may be
[14] dated December 19, 2006, marked for	[14] configurations in which an e-mail would disclose
is identification, as of this date.)	[15] that information.
[16] Q : I refer you to Page 4, Paragraph 5,	[16] Q : Now, going back to what you said
[17] second sentence, and ask you what you were talking	[17] about the packet, would you see the private IP?
[18] about.	[18] A: If the application reported the
[19] Actually, let me go to this first.	[19] private IP as part of the payload, but not as part
[20] When you say the registry entries were recovered,	[20] of the IPV4 header.
they weren't recovered; you are just saying you saw	[21] Q : And how does it distinguish between
[22] them and then kept them to yourself. Is that	[22] wireless and not wireless?
[28] correct? You didn't recover them?	[23] MR. GABRIEL: Objection to form.
MR. GABRIEL: Objection to form.	[24] A: You wouldn't be able to tell the
[25] Argumentative.	25 difference between a router with private addresses,
	- Land the periodical and the private addresses,

7 Page 13
[1] Jacobson
[2] of SHA1 hash values?
[3] MR. BECKERMAN: Withdrawn. I
[4] withdraw the question.
[5] Q: Can multiple users of KaZaA have the
[6] same user name?
[7] A : Yes.
[8] Q: Can users change their nickname in
[9] KaZaA?
[10] A: Yes.
[11] Q: Do KaZaA nicknames uniquely identify
[12] a person?
[13] A: No.
[14] Q : Could I create a user name
[15] "Dr. Jacobson" at KaZaA?
[16] A: Yes.
[17] Q : Does KaZaA operate as a background
[10] service?
[19] MR. GABRIEL: Objection to form.
[20] A: You can minimize KaZaA and have it
[21] run out of the system tray.
[22] Q : Is it possible that someone who has
123] the computer on and has KaZaA running might not even
[24] know it's running?
[25] A: It's possible.
8 Page 14
[1] Jacobson
[2] Q : Is there a way through the internet
[3] to remotely control someone else's computer?
[4] MR. GABRIEL: Objection to form.
[5] Lack of foundation.
[5] Lack of foundation.
[5] Lack of foundation. [6] A: It's possible.
 [5] Lack of foundation. [6] A: It's possible. [7] Q: What is a zombie?
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[5] Lack of foundation. [6] A: It's possible. [7] Q: What is a zombie? [8] A: In reference to computer security, a [9] zombie is a program that is under control of some [10] other master program which is under control of some [11] individual. [12] Q: What is a cracker? [13] A: When I use the term, it is in [14] reference to either a person or process to break [15] passwords. [16] Q: What is a drone? [17] A: Again, in computer security [18] terminology that, again, would be a piece of [19] software that's under control by another individual. [20] Q: When you provide your investigations, [21] do you do anything to verify or to determine whether

Page 141	D 4
Macobson	Page 14
[2] MediaSentry investigation?	(A) Table 10 1 1 mg 11
13 A: No.	[2] G: Did you verify that the IP address [3] had not been highjacked?
Q: Do you know the qualifications and	- <i>•</i>
s training of anyone who conducted the investigation?	MR. GABRIEL: Objection to form. Solution 15 A: I relied on the Verizon documentation
6 A: No.	
Q: Are screen shots reliable evidence,	[6] and so, no, I did not.
in your opinion?	7 Q: Did you verify that the IP address
MR. GABRIEL: Objection to form.	B had not been faked?
of Lack of foundation, Calls for a legal	MR. GABRIEL: Same objection.
1) conclusion on its face.	[10] A: I relied on the Verizon
	[11] documentation.
	[12] Q : Did you verify that the IP address
s) evidence in a court of law.	[13] had not been spoofed?
4) Q: Do you consider screen shots	MR. GABRIEL: I will object to the
5) reliable?	[15] form. Lack of foundation.
6] MR. GABRIEL: Objection.	[16] You can answer.
A: A screen shot is an image of the	[117] A: Only that I can say that it was an IP
8) application and the application data that is shown	[18] address that was within Verizon's domain.
9) on the screen at that time.	[19] Q: Is a log file a text file?
Q: Can it be subject to manipulation or	[20] A: It can be.
nj forgery?	[21] Q : Were these log files text files?
2] MR. GABRIEL: Objection to form.	[22] A: The originals I believe came that
3] Calls for speculation.	[23] way. When I receive them, they are .PDF documents.
4) A: Any image can be subject to	
, , ,	[24] Q: Can text files be easily altered?
	[24] Q: Can text files be easily altered? [25] MR. GABRIEL: Objection to form.
	[25] MR. GABRIEL: Objection to form.
s manipulation. Page 142	[25] MR. GABRIEL: Objection to form.
Page 142 [1] Jacobson	[25] MR. GABRIEL: Objection to form. Page 14
Page 142 [1] Jacobson	[25] MR. GABRIEL: Objection to form. Page 14 [1] Jacobson
Page 142 [1] Jacobson [2] Q: Could it be altered in the graphics [3] editing program?	[25] MR. GABRIEL: Objection to form. Page 14 [1] Jacobson [2] A: Yes.
Page 142 Jacobson Could it be altered in the graphics editing program? MR. GABRIEL: Same objections.	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe
Page 142 1	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of
Page 142 Jacobson Q: Could it be altered in the graphics editing program? MR. GABRIEL: Same objections. A: Any image can be altered in the graphics editing program.	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files?
Page 142 11 Jacobson 23 Q: Could it be altered in the graphics 39 editing program? 40 MR. GABRIEL: Same objections. 51 A: Any image can be altered in the 62 graphics editing program. 71 Q: Did you take any steps to verify the	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files? [7] A: When I looked through the hard drive
Page 142 Diagonal Jacobson Could it be altered in the graphics editing program? MR. GABRIEL: Same objections. A: Any image can be altered in the graphics editing program. Could it be altered in the graphics editing program. Could it be altered in the graphics editing program. Could it be altered in the graphics editing program. Could it be altered in the graphics editing program.	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files? [7] A: When I looked through the hard drive [8] there were very few files that were created by
Page 142 11	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files? [7] A: When I looked through the hard drive [8] there were very few files that were created by [9] user-run applications, like documents.
Page 142 11 Jacobson 22 Q: Could it be altered in the graphics 33 editing program? 44 MR. GABRIEL: Same objections. 55 A: Any image can be altered in the 66 graphics editing program. 77 Q: Did you take any steps to verify the 89 authenticity of the screen shot? 90 A: No. 10 Q: Did you take any steps to verify that	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files? [7] A: When I looked through the hard drive [8] there were very few files that were created by [9] user-run applications, like documents. [10] Q: Is it possible to use a computer for
Page 142 11 Jacobson 22 Q: Could it be altered in the graphics 33 editing program? 44 MR. GABRIEL: Same objections. 55 A: Any image can be altered in the 66 graphics editing program. 77 Q: Did you take any steps to verify the 89 authenticity of the screen shot? 90 A: No. 91 Q: Did you take any steps to verify that 92 the song files were genuine?	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files? [7] A: When I looked through the hard drive [8] there were very few files that were created by [9] user-run applications, like documents. [10] Q: Is it possible to use a computer for [11] extended periods without creating any user files?
Page 142 Page 142 Page 142 Q: Could it be altered in the graphics editing program? MR. GABRIEL: Same objections. A: Any image can be altered in the graphics editing program. Q: Did you take any steps to verify the authenticity of the screen shot? A: No. Q: Did you take any steps to verify that the song files were genuine? A: Other than what was reported through	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files? [7] A: When I looked through the hard drive [8] there were very few files that were created by [9] user-run applications, like documents. [10] Q: Is it possible to use a computer for [11] extended periods without creating any user files? [12] MR. GABRIEL: Objection to form.
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Page 142 11	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files? [7] A: When I looked through the hard drive [8] there were very few files that were created by [9] user-run applications, like documents. [10] Q: Is it possible to use a computer for [11] extended periods without creating any user files? [12] MR. GABRIEL: Objection to form. [13] A: It's possible. [14] Q: If you were, let's say, surfing the [15] internet and clearing the cache, would there be any [16] user-created files from that? [17] A: As long as you didn't download [18] anything. [19] Q: If you were listening to any CD's, [20] would there be any user-created files?
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Page 142 Q: Could it be altered in the graphics editing program? MR. GABRIEL: Same objections. A: Any image can be altered in the graphics editing program. Q: Did you take any steps to verify the authenticity of the screen shot? A: No. Q: Did you take any steps to verify that the song files were genuine? A: Other than what was reported through MediaSentry and through the certificates of — I can't recall what they are called exactly, but through the documents provided by the recording industry. Q: You yourself did nothing to verify that they were genuine? A: Other than through the documentation I was provided. Q: What did MediaSentry do to verify that they were genuine?	Page 14 A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files? [7] A: When I looked through the hard drive [8] there were very few files that were created by [9] user-run applications, like documents. [10] Q: Is it possible to use a computer for [11] extended periods without creating any user files? [12] MR. GABRIEL: Objection to form. [13] A: It's possible. [14] Q: If you were, let's say, surfing the [15] internet and clearing the cache, would there be any [16] user-created files from that? [17] A: As long as you didn't download [18] anything. [19] Q: If you were listening to any CD's, [20] would there be any user-created files? [21] A: No. [22] Q: If you were playing Minesweeper or
Page 142 11	Page 14 [1] Jacobson [2] A: Yes. [3] Q: In your report you said the lack of [4] user-created files and e-mail leads you to believe [5] that this computer wasn't used very much. What did [6] you mean by user-created files? [7] A: When I looked through the hard drive [8] there were very few files that were created by [9] user-run applications, like documents. [10] Q: Is it possible to use a computer for [11] extended periods without creating any user files? [12] MR. GABRIEL: Objection to form. [13] A: It's possible. [14] Q: If you were, let's say, surfing the [15] internet and clearing the cache, would there be any [16] user-created files from that? [17] A: As long as you didn't download [18] anything. [19] Q: If you were listening to any CD's, [20] would there be any user-created files? [21] A: No.

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	[1] Jacobson
[2] Q: If you were just playing Minesweeper	[2] A: Of all hard drives connected while
[9] or Solitaire, would there be any user-generated	[3] that system registry was on that hard drive, if you
[4] files?	[4] pull out the hard drive that had that system
[5] A: No.	[5] registry and plugged a brand new one into the
[6] Q: If a user used web-based e-mail such	[6] machine and rebuilt the operating system, there
[7] as Hotmail, Yahoo or Gmail, would any of those	[7] would be no evidence of that original hard drive you
[8] e-mails be stored on the hard drive?	B) pulled out.
[9] A: They don't have to be.	[9] Q: Was there any evidence that that had
[10] Q: Can you tell how many people used the	taken place here on or after August 7, 2004?
[11] computer from which the hard drive came that you	[11] A: No.
[12] examined?	[12] Q: Does every internet packet contain a
A: I can tell how many accounts were on	[13] MAC address?
[14] the hard drive, how many user accounts.	[14] A : No.
[15] Q: But you can't say how many people	[15] Q: Does a MAC address tell you if a
[16] used it?	[16] device is wired or wireless?
[17] A: Living, breathing people? No.	[17] A: If you can see the MAC address of the
[18] Q : During your hard drive inspection,	[18] transmitting device you could see whether that
what files did you find in the deleted sectors of	[19] device was wired or wireless.
[20] the disk?	[20] Q: Now, if it was a computer going
[21] A: Very few, and none that matched the	[21] through a wireless router, would you see the MAC
[22] profile of KaZaA or MP3 files.	22 address of the computer?
[23] MR. BECKERMAN: Let's take a short	23 A: Where am I looking for the MAC
[24] break.	[24] address?
[25] (Recess taken.)	[25] Q: Where you say it exists.
Page 146	
[1] Jacobson	Page 14
[2] Q : Did you examine the system registry	A: MAC address exists between any two
[3] for the computer that had the hard drive?	in nodes — some type of physical address exists
A: I examined the registry from the hard	[4] between every pair of communicating nodes on the
[5] drive.	(5) internet.
[6] Q: Did it show that any other hard drive	[6] Q : How would you see the MAC address of
[7] had ever existed in that computer?	7 a transmitting device?
A: I didn't specifically look for that.	
19 I don't recall that there was an indication of that.	s A: I'd have to have a monitoring device on the media — median that the transmitting device
[10] Q: So you have no reason to think that	
[11] the hard drive was replaced?	[10] was using.
[12] A: Not — no.	[11] Q: And did you have such a monitoring device?
(13) Q: And it is a fact, is it not, that the	
[14] system registry would have disclosed that if it had	[13] A: No.
[15] taken place?	[14] Q : Does an IP address tell you if the
4 - 2	[15] device is wired or wireless?
•	[16] A: No.
[17] from scratch and copied the data files over to new	[17] MR. BECKERMAN: I have no further
(18) hard drive, the system registry would have only	[18] questions.
(19) shown the creation date or installation date of the	[19] MR. GABRIEL: I think I just have
[20] operating system.	[20] three clarification questions.
Q: Isn't it a fact that the system	[21] MR. BECKERMAN: Then I might have
registry contains information about each hard drive	[22] some clarifying questions of my own then.
that's ever been connected to the computer,	[23] MR. GABRIEL: I understand.
[24] including the manufacturer, the size of the hard	[24] EXAMINATION BY
[25] drive and in some instances the serial number?	[25] MR. GABRIEL:

Jacobson (1) Jacobson (1) Jacobson (2) Displayed (2) Displayed (3) Displ		
go. Dr. Jacobson, Mr. Beckerman asked you wended both when you did your first report and also when so you treat drive, and you gave testimony about that. Do you recall? 7 A. Yes. 9 Questions a go with respect to the processes that go you wender of the processes that go you may be the processes that go you used is it your view that drive, and you gave testimony about that. Do you recall? 9 Questions to you the processes that go you wender of the processes that go you wender way to do what you go you used is it your view that reasonable experts in go you fields use the same processes? 9 Questions the conclusions you of a number of tools, but all go of those tools behave in roughly the same way. 10 Questions that you did and go of those tools behave in roughly the same way. 11 Questions you treat declaration that you did and go wender you had discussed any alternative explanations for you have an opinion on something like that. 10 Questions you recall simply the same way. 11 Questions you had a discussed any alternative explanations for you have an opinion on something like that. 12 Questions you recall simply the same way. 13 Questions that you did and you do that? 14 Questions you had discussed any alternative explanations for you have an opinion on something like that. 15 Questions you had discussed any alternative explanations for you have an opinion on something like that. 16 Questions you recall simply the same way. 17 Questions you have an opinion on something like that. 18 Questions you have an opinion on something like that. 19 Questions you have an opinion on something like that. 19 Questions you have a present in the development o	-	Page 151
## Some questions about the processes that you used to both when you did your first report and also when so when you did your first report and also when so when you that. Do you recall? ## A: Yes. ## O: With respect to the processes that you will you used, is it your view that reasonable experts in your fields use the same processes? ## O: With respect to the processes that you will see that any of that is not correct? ## O: With respect to the processes? ## O: With respect to the various data you were did not make that you did it is not correct? ## O: O: With respect to the processes? ## O: With respect to the various data you were any information sitting here today, Dr. Jacobson, to suggest that any of that is not correct? ## O:		[i] Jacobson
A continue when you did your first report and also when go you reviewed the hard drive, and you gave testimony go about that. Do you recall? A continue when you did you gave testimony go about that. Do you recall? A continue when you was a continue when you go you used, is it your view that reasonable experts in go your fields use the same processes? A continue when you did you was the same processes? A continue when you did was the same processes? A continue when you did you was the same processes? A continue when you was the same processes? A continue was the same information. A continue was the same processes? A continue was the	· · · · · · · · · · · · · · · · · · ·	[2] things he asked you if you verified. Do you
So you reviewed the hard drive, and you gave testimony about that. Do you recall?		[3] remember just being asked those questions?
The second content of the second content o	_ _	[4] A: Yes.
Section of from MediaSentry or Verizon, do you have 27 28 Yes 28 29 With respect to the processes that 29 you used, is it your view that reasonable experts in 29 you used, is it your view that reasonable experts in 29 you used, is it your view that reasonable experts in 29 Yes 20 Is there any other way to do what you 30 did, to your knowledge? 30 Is there any other way to do what you 30 did, to your knowledge? 31 Ar No. 32 Min. BecKerman in a number of tools, but all 30 of those tools behave in roughly the same way. 31 Ar No. 32 Min. Beckerman asked you about, he asked you whether 39 you had discussed any alternative explanations for the conclusions you reached. Do you recall him 32 Sking you that? 32 Ar Yes. 32 Ar Yes. 33 Ar Yes. 34 Ar Yes. 35 Ar Yes. 36 Ar Yes. 37 Ar Yes. 38 Ar Yes. 39 Ar Ye	[5] you reviewed the hard drive, and you gave testimony	[5] Q : With respect to the various data you
20 A. Yes.	6 about that. Do you recall?	
Simple With respect to the processes that	[7] A: Yes.	•
89 you used, is it your view that reasonable experts in your fields use the same processes? 10	[8] Q : With respect to the processes that	
10 Oc. Do you have an opinion as to whether 10 A: Yes. 10 A: Yes. 10 A: Yes. 10 A: The hard drive examination could have 10 A: The hard shown himself qualified to give an 10 Opinion on something like that. 10 Opinion something like that. 10 Op	[9] you used, is it your view that reasonable experts in	
19	10) your fields use the same processes?	
2 3 Si Is there any other way to do what you 1 3 did, to your knowledge? 3 did, to your knowledge? 4 A: The hard drive examination could have 15 been done with any one of a number of tools, but all 16 of those tools behave in roughly the same way. 7 G: Mr, Jacobson, with respect to the 8 reports in the declaration that you did and 18 mr. 18 C: You can answer. 17 A: I believe that a person in my field 18 would use the same information. 19 Q: Last question. Would you look at 28 28 Q: You did talk about the absence of a 28 A: Yes. 29 A: Yes. 20 And your testimony will speak for	11] A: Yes.	<u> </u>
13 did, to your knowledge? 13 MR. BECKERMAN: Objection. He 14 hasn't shown himself qualified to give an 15 opinion on something like that. 16 opinion on something like that. 16 opinion on something like that. 17 Qi. You can answer. 18 Opinion on something like that. 18 opinion on something like that. 18 opinion on something like that. 19 opinion on something lik	Q: Is there any other way to do what you	_ *
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Q: Mr. Jacobson, with respect to the	•	l
18 reports in the declaration that you did and Mr. Beckerman asked you about, he asked you whether a you had discussed any alternative explanations for 21 A: Yes. 22 A: Yes. 23 A: Yes. 24 A: Yes. 25 You did talk about the absence of a 26 Yes 27 A: Yes. 28 A: Yes. 29		1
Mr. Beckerman asked you about, he asked you whether 19 Wr. Beckerman asked you about, he asked you what 19 C: Last question. Would you look at 29 20 20 20 20 20 20 20	-	
Second process of the conclusions you reached. Do you recall him asking you that? 22 23 3 3 3 4 3 4 5 5 5 5 5 5 5 5 5	- ·	-
the conclusions you reached. Do you recall him the conclusions you that? 22 A: Yes. 23 A: Yes. 24 C: A couple of times today you alluded 25 to this exhibit and referred to it or you talked 26 about — and the record speaks for itself, I'm just 26 prouter. Page 150 Jacobson MR. BECKERMAN: Objection. 26 Leading. 27 A: Yes. 28 A: Yes. 29 C: A couple of times today you alluded 29 about — and the record speaks for itself, I'm just 29 prouter. Page 150 Page 150 Jacobson 10 Jacobson 11 Jacobson 12 address and 192. Does the number 192 here somehow 13 correlate with an internal IP address? 14 A: Yes. The internet registration 15 IP addresses, has allocated three address ranges 16 IP addresses, has allocated three address ranges 17 that are to be used internally only, they are not to 18 those blocks of addresses. 19 A: Yes. 10 Q: And your testimony will speak for 10 III A control of the internet, and the 192.168 is one of 10 III A control of the internet, and the 192.168 is one of 11 III A control of the internet registration 12 address and 192. Does the number 192 here somehow 13 correlate with an internal IP address? 14 A: Yes. The internet registration 15 III Addresses, 16 A: Yes. The internet registration 16 III A control of the governing body of 18 IP addresses, has allocated three address ranges 19 that are to be used internally only, they are not to 19 show up on the internet, and the 192.168 is one of 19 those blocks of addresses. 10 Q: And with respect to the IP — the 11 public IP addresses that you talked about a lot today 12 relating to this case, was that within one of the 13 ranges for internal addresses? 14 A: No. 15 MR. GABRIEL: That's all I have. 16 MR. GABRIEL: Thank you for your 17 questions. 18 MR. GABRIEL: Thank you for your 19 courtesy. We are going to run out and 19 make a plane. 20 C: Mr. Beckerman asked you a lot of 21 questions today about what you relied on and he 22 aksed you whether you had verified different things. 28 IN Secretary information and he also asked you whether you had verif	•	
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A: Yes. Q: You did talk about the absence of a router. Page 150 Jacobson MR. BECKERMAN: Objection. [2] Carrier of the instructions that I or my firm gave you in the tenstructions that I or my firm gave you in the same upon the instructions that I or my firm gave you in the same upon the instructions that I or my firm gave you in the same upon the instructions that I or my firm gave you in the same upon the instructions that I or my firm gave you in the same upon the upon the instructions that I or my firm gave you in the same upon the upon the upon the instructions that I or my firm gave you in the upon		<u> </u>
Q: You did talk about the absence of a page 150 Page 150 MR. BECKERMAN: Objection.	- ·	
Page 150 Page 150 Jacobson	•	*
Page 150 Jacobson MR. BECKERMAN: Objection. It cading. Q: Yes? A: Yes. It cading. It correlate with an internal IP address? It carries with an internal IP address. It carries with an internal IP address? It carries with an internal IP address? It are to be used internally only, they are not to into be used internally only, they are not to into be used internally only, they are not to into show up on the internet, and the 192.168 is one of into	•	_ ·
Jacobson MR. BECKERMAN: Objection. Are Yes. Gramman and drive, correct? Are Yes. Gramman associated with your expert stestimony? MP files, anything associated with your expert stestimony? MP files anything was deleted? Are Yes. MR. BECKERMAN: Objection. Jacobson Are Yes. Jacobson Are Yes. Jacobson Are Yes. Jacobson Are Yes. Jacobson Ja	25) TOULCI,	[25] trying to get us in the same place — an internal IP
MR. BECKERMAN: Objection. 2 address and 192. Does the number 192 here somehow 3 carding. 4 Q: Yes? 5 A: Yes. 6 Q: Mr. Beckerman had asked you questions 7 about the instructions that I or my firm gave you in 8 terms of what you were supposed to look for on the 9 hard drive, correct? 10 A: Yes. 11 Q: And your testimony will speak for 12 titself. I think you said look for KaZaA, look for 13 testimony? 14 A: Yes. 15 testimony? 16 A: Yes. 17 Q: Did we also ask you to look if 18 anything was deleted? A: Yes. 19 A: Yes. 10 A: Yes. 10 A: Yes. 11 Q: Does the number 192 here somehow 12 address and 192. Does the number 192 here somehow 3 correlate with an internal IP address? 4 A: Yes. 5 authority, which is basically the governing body of 8 IP addresses, has allocated three address ranges 7 that are to be used internally only, they are not to 8 show up on the internet, and the 192.168 is one of 9 those blocks of addresses. 10 Q: And with respect to the IP — the 11 public IP address that you talked about a lot today 12 relating to this case, was that within one of the 13 ranges for internal addresses? 14 A: No. 15 mR. GABRIEL: Thank you for your 15 mR. GABRIEL: Thank you for your 16 A: Yes. 17 A: Yes. 18 MR. GABRIEL: Thank you for your 19 courtesy. We are going to run out and 10 make a plane. 12 (Time noted: 2:28 p.m.) 12 (Time noted: 2:28 p.m.) 12 (Time noted: 2:28 p.m.) 18 (Time noted: 2:28 p.m.) 19 (Time noted: 2:28 p.m.) 19 (Time noted: 2:28 p.m.) 10 (Time noted: 2:28 p.m.) 11 (Time noted: 2:28 p.m.) 12 (Time noted: 2:28 p.m.) 13 (Time noted: 2:28 p.m.) 14 (Time noted: 2:28 p.m.) 15 (Time noted: 2:28 p.m.) 16 (Time noted: 2:28 p.m.) 17 (Time noted: 2:28 p.m.) 18 (Time noted: 2:28 p.m.)		Page 152
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Q: Yes? A: Yes. Q: Mr. Beckerman had asked you questions planut the instructions that I or my firm gave you in terms of what you were supposed to look for on the last drive, correct? A: Yes. Q: And drive, correct? Q: And your testimony will speak for tiself. I think you said look for KaZaA, look for MP3 files, anything associated with your expert report. Do you recall giving that general testimony? A: Yes. Q: Did we also ask you to look if anything was deleted? A: Yes. Q: And did you do that? A: Yes. Q: And did you do that? A: Yes. Q: Mr. Beckerman asked you a lot of guestions today about what you refled on and he asked you whether you had verified different things. A: Yes.	·	
A: Yes. Q: Mr. Beckerman had asked you questions about the instructions that I or my firm gave you in terms of what you were supposed to look for on the hard drive, correct? A: Yes. Q: And your testimony will speak for itself. I think you said look for KaZaA, look for my firm gassociated with your expert testimony? A: Yes. Q: And your testimony will speak for testimony will speak for testimony? A: Yes. Q: Did we also ask you to look if anything was deleted? A: Yes. Q: And did you do that? A: Yes. Q: And did you do that? A: Yes. Q: Mr. Beckerman asked you a lot of testimons today about what you relied on and he asked you whether you had verified different things. For experience the Vericon information was one of the sequence of	-	
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111 Q: And your testimony will speak for 112 itself. I think you said look for KaZaA, look for 113 MP3 files, anything associated with your expert 114 report. Do you recall giving that general 115 testimony? 116 A: Yes. 117 Q: Did we also ask you to look if 118 anything was deleted? 119 public IP address that you talked about a lot today 110 relating to this case, was that within one of the 110 ranges for internal addresses? 114 A: No. 115 MR. GABRIEL: That's all I have. 116 MR. BECKERMAN: I have no further 117 questions. 118 MR. GABRIEL: Thank you for your 119 courtesy. We are going to run out and 120 make a plane. 121 (Time noted: 2:28 p.m.) 122 (Time noted: 2:28 p.m.) 123 asked you whether you had verified different things. 124 Public IP address that you talked about a lot today 125 relating to this case, was that within one of the 130 ranges for internal addresses? 140 A: No. 151 MR. GABRIEL: That's all I have. 152 MR. GABRIEL: Thank you for your 153 MR. GABRIEL: Thank you for your 154 Courtesy. We are going to run out and 155 Courtesy. We are going to run out and 166 MR. GABRIEL: Thank you for your 167 Courtesy. We are going to run out and 168 MR. GABRIEL: Thank you for your 169 Courtesy. We are going to run out and 169 MR. GABRIEL: Thank you for your 170 Courtesy. We are going to run out and 171 MR. GABRIEL: Thank you for your 172 Courtesy. We are going to run out and 173 MR. GABRIEL: Thank you for your 174 MR. GABRIEL: Thank you for your 175 MR. GABRIEL: Thank you for your 176 MR. GABRIEL: Thank you for your 177 MR. GABRIEL: Thank you for your 178 MR. GABRIEL: Thank you for your 179 Courtesy. We are going to run out and 170 MR. GABRIEL: Thank you for your 170 MR. GABRIEL: Thank you for your 175 MR. GABRIEL: Thank you for your 176 MR. GABRIEL: Thank you for your 177 MR. GABRIEL: Thank you for your 178 MR. GABRIEL: Thank you for your for yo	A WT	i
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[1]		[1]		
[2]	CAPTION	[2]	2) DEPOSITION ERRATA SHEET 3) RE:	
[3]		ارا	FILE NO.	
[4]	The Deposition of DR. DOUGLAS W. JACOBSON, taken in the	[4]	4] CASE CAPTION: UMG V. LINDOR	
[5]	matter, on the date, and at the time and place set	[5]	5] DEPONENT: DR. DOUGLAS W. JACOBSON	
	out on the title page hereof.		DEPOSITION DATE: 2/23/07	
[7]		[6]	6] 7] To the Reporter:	
	It was requested that the deposition be taken by	"	I have read the entire transcript of my Deposition	
	the reporter and that same be reduced to	[8]	8) taken in the captioned matter or the same has been	
	typewritten form.		read to me. I request for the following changes	
[11]		[9]	 be entered upon the record for the reasons indicated. 	
	It was agreed by and between counsel and the	1101	ликакен. 0] I have signed my пате to the Errata Sheet and the	
	parties that the Deponent will read and sign the	` '	appropriate Certificate and authorize you to	
	·	[11]	1] attach both to the original transcript.	
	transcript of said deposition.	[12]		
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[2]	CERTIFICATE		3) WITNESS EXAMINATION BY PAGE	
[3]	STATE OF:	[5]	4) DR. DOUGLAS W. JACOBSON MR. BECKERMAN 4 5) MR. GABRIEL 149	
[4]	COUNTY/CITY OF:	[6]		
[5]		1 " "	7] INFORMATION REQUESTS	
[6]		1	8) DIRECTIONS: None	
[7]	Before me, this day, personally appeared	1	9) RULINGS: 25, 26 0) TO BE FURNISHED: 53	
[8]	DR. DOUGLAS W. JACOBSON, who, being duly sworn, states	1 -	1] REQUESTS: 115	
[9]	that the foregoing transcript of his	[12]	2] MOTIONS: 22, 26	
[10]	Deposition, taken in the matter, on the date, and	[13]		
[11]	at the time and place set out on the title page	[14]		
[12]	hereof, constitutes a true and accurate transcript	[13]	5) DEFENDANT'S Page for iden.	
[13]	of said deposition.	[16]	9]	
[14]			1 Press release from Palisade Systems, Inc. 8	
[15]		[17]	 7] bearing the headline "Peer-to-Peer File Sharing Struggles Intensity 	
[16]	DR. DOUGLAS W. JACOBSON	[18]		
[17]	CURCORIET CUCORNA- 1- C	[19]	P) 2 One-page press release of Palisade 9	
	SUBSCRIBED and SWORN to before me this	rom	Systems, Inc. dated April 21, 2004	
	day of, 2007, In the	[20]	oj 3 Two-page article by David Chappelle 9	
	jurisdiction aforesaid.	[21]	1] dated April 19, 2004	
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	My Commission Expires Notary Public	ľ.	5 Press release from ZDNet entitled 14	
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[2] 7	Study entitled "The KaZaA Overlay: 70		[2]	CERTIFICATE
	A Measurement Study"		[3]	STATE OF NEW YORK)
[3]) ss.:
8	One-page chart 72		[4]	COUNTY OF RICHMOND)
[4]			[5]	
9	Paper entitled "Pollution in P2P 75		[6]	I, ELIZABETH SANTAMARIA, a Registered
[5]	File Sharing Systems"		[7]	Professional Reporter and Notary Public of
[6] 10	Two-page printout of page numbers 82		[8]	the State of New York, do hereby certify
	46 to 47		[9]	that the foregoing Deposition is, of the
[7]			[10]	witness, DR. DOUGLAS W. JACOBSON, taken at
11	Printout of page numbers 49 to 187 83		[11]	the time and place aforesaid, is a true and
[8]			[12]	correct transcription of my shorthand notes.
[9]			[13]	I further certify that I am not
12	Printout of pages 199 to 224 83		[14]	neither counsel for nor related to any party
0]			[15]	to said action, nor in any way interested in
13	One-page printout of page numbered 48 83		[16]	the result or outcome thereof.
1]			[17]	IN WITNESS WHEREOF, I have hereunto
14	Printout of pages numbers 188 through 198 83		[18]	set my hand this day of March, 2007
2]			[19]	
15	Undated October report 89		[20]	
3]			[21]	ELIZABETH SANTAMARIA
16	Dr. Douglas W. Jacobson's April report 93		[22]	
4)			[23]	
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6]	"wireless router" at the top			
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21]	and Johan Pouwelse"			
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February 23, 2007 [25] New York, New York

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