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UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF MASSACHUSETTS

UNITED STATES OF AMERICA,)	
)	
Plaintiff,)	
)	Criminal Action
v.)	No. 13-10200-GAO
)	
DZHOKHAR A. TSARNAEV, also)	
known as Jahar Tsarni,)	
)	
Defendant.)	
)	

BEFORE THE HONORABLE GEORGE A. O'TOOLE, JR.
UNITED STATES DISTRICT JUDGE

EXCERPT OF JURY TRIAL - DAY THIRTY-SEVEN

Testimony of Kevin Swindon

John J. Moakley United States Courthouse
Courtroom No. 9
One Courthouse Way
Boston, Massachusetts 02210
Monday, March 23, 2015
9:10 a.m.

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Cheryl Dahlstrom, RMR, CRR
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I N D E X

	<u>Direct</u>	<u>Cross</u>	<u>Redirect</u>	<u>Recross</u>
<u>WITNESSES FOR THE GOVERNMENT:</u>				
KEVIN SWINDON (Cont'd)				
By Mr. Chakravarty	7		109	
By Mr. Fick		20		120

* * * * *

E X H I B I T S

<u>GOVERNMENT'S EXHIBIT</u>	<u>DESCRIPTION</u>	<u>FOR ID</u>	<u>RECEIVED</u>
1385-1389 1393, 1395	Mobilsync backup data		9
1153	Extracted text messages from Kadyrbayev phone		11
1438	Selected file listing from 1R6		20
<u>DEFENDANT'S EXHIBIT</u>			

P R O C E E D I N G S

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THE COURT: Morning.

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MR. CHAKRAVARTY: Your Honor, Agent Swindon is still on the stand. I have a few minutes left with him just to clarify some things, and then I would hand him over for cross-examination. My understanding there's anticipated to be a lengthy cross-examination of this witness. And the next witness is Dr. Levitt, who is our terrorism expert. He has a flight to Europe scheduled for this afternoon after the court day. And so our hope was that we would get all of his testimony in.

In light of the prospect of Mr. Swindon potentially going longer than expected, if the Court has no objection, I'd like to potentially call Mr. Levitt out of order -- Dr. Levitt out of order and then conclude Agent Swindon's.

THE COURT: Mr. Bruck?

MR. BRUCK: That's fine with us, your Honor. I should note, however, that there is a motion in limine respecting the terrorism experts, of which Dr. Levitt is one. And his report is specifically referenced in that motion. So that will have to be addressed before his testimony.

THE COURT: Well, I've reviewed his report, and I think he can testify. So as to him, it's denied. The motion is denied as to him. I've reviewed the report and the motion. The motion was addressed to a number of people, and I take no

1 position whether it applies to others or not -- whether this
2 ruling applies to others or not. As to him, he may testify.

3 MR. BRUCK: That leaves me, I guess, with the question
4 about the extent to which I will have to continually object
5 during the course of his testimony on the grounds stated in the
6 motion in limine or whether we can have a continuing objection
7 to the background information.

8 THE COURT: Yes, you may have a continuing objection
9 to it.

00:01 10 MR. BRUCK: Thank you very much.

11 THE COURT: How long will the Levitt testimony be?

12 MR. CHAKRAVARTY: I anticipate -- it's my anticipation
13 so it might be generous -- about an hour and a half on direct,
14 your Honor.

15 THE COURT: On direct?

16 MR. CHAKRAVARTY: On direct.

17 THE COURT: And how much on cross?

18 MR. BRUCK: Considerably less than that, your Honor.

19 THE COURT: Well -- so who's doing the cross of this
00:02 20 witness?

21 MR. FICK: I am, your Honor.

22 THE COURT: And your estimate?

23 MR. FICK: Possibly a couple of hours.

24 THE COURT: Yeah. Well, why don't we proceed -- well,
25 there's two ways of doing it, I guess. You can finish the

1 direct, and we can go to Levitt and get him done and then have
2 the cross uninterrupted, or you can have some cross and we'll
3 see how the clock goes.

4 MR. BRUCK: As far as Levitt goes, I don't think
5 there's any danger, that if we proceed in the normal order,
6 that he wouldn't be finished by 4:00 at least based on --

7 THE COURT: Okay. All right. Let's see how the
8 morning goes then in the normal order.

9 MR. FICK: So we can proceed --

00:02 10 THE COURT: So you'll begin with cross after the
11 direct; is that all right?

12 MR. FICK: Yeah. I'm going to have my consultant come
13 to the table.

14 THE COURT: Fine. Any other issues before we get the
15 jury? So why don't you line them up. It takes awhile usually.

16 Miss Conrad filed a motion under seal this morning.

17 MS. CONRAD: Yes, your Honor.

18 THE COURT: That matter has to be addressed to the
19 presiding judge in the other case.

00:03 20 MS. CONRAD: Okay. Thank you.

21 THE COURT: As a preliminary matter.

22 MS. CONRAD: Okay. Thank you.

23 THE COURT: It may then be appropriate depending on
24 the ruling, okay?

25 MS. CONRAD: Yes.

1 (The jury entered the courtroom at 9:13 a.m.)

2 THE COURT: Morning, jurors. I hope you had a good
3 weekend, and I hope you abided by my instructions not to
4 discuss the case. Did you?

5 THE JURY: Yes.

6 THE COURT: Thank you. We'll resume with the direct
7 examination of Agent Swindon.

8 MR. CHAKRAVARTY: Thank you, your Honor.

9 CONTINUED DIRECT EXAMINATION BY MR. CHAKRAVARTY:

00:04 10 Q. Good morning, Agent Swindon.

11 A. Good morning.

12 Q. I just wanted to clarify a few things before I hand you
13 over for cross-examination.

14 We had talked on Thursday about some of the items that
15 you had found on the Sony VAIO laptop, what you called the 1R6,
16 Exhibit 1142. Do you remember that?

17 A. Yes.

18 Q. Was one of those items a folder that was marked as a
19 Mobilsync backup?

00:04 20 A. There was a file named Mobilsync backup.

21 Q. Can you just explain again what that was?

22 A. The Mobilsync backup is a backup of the iPhone or an Apple
23 device that would be stored on the computer if you backed it
24 up.

25 Q. And what kinds of data were stored in the Mobilsync

1 backup?

2 A. The Mobilsync backup has a standard set of things it
3 attempts to try and store but not always successful. Typically
4 it would be contacts, text messages, the actual ID of the
5 phone, of the SIM card ID on the phone, and maybe images and
6 other data that would be on the phone.

7 Q. And so on the -- on that device, did you locate several
8 text messages that were then exported and you verified that
9 those did appear, in fact, on the Sony VAIO computer?

00:05 10 A. The text messages were in the Mobilsync backup data that
11 was exported.

12 Q. Specifically, were there Exhibits No. 1385 through 1389,
13 1393, and 1395? Would it help to put them up on the screen?

14 A. It would, yes.

15 MR. CHAKRAVARTY: Your Honor, for the witness, please.

16 Q. So this is 1385, 1386, 1387, 1388, 1389, 1393, and 1395.
17 Do you recognize those as being text messages that were
18 exported from the Sony VAIO laptop along with a redaction of
19 the identifying information of the counterparty to a
00:07 20 conversation?

21 A. Yes. Those messages were located in Mobilsync backup data
22 from the 1R6.

23 MR. CHAKRAVARTY: I'd move into evidence 1385 through
24 1389, 1393, and 1395.

25 MR. FICK: Same objection to the extent these are

1 derivatives compiled by somebody else.

2 THE COURT: All right. Overruled. Admitted.

3 (Government Exhibit Nos. 1385-1389, 1393, 1395 received into
4 evidence.)

5 Q. With regards to this Mobilsync backup, I had asked you a
6 little bit on Thursday with regards to whether you were able to
7 identify which phone actually produced those text messages. I
8 should say which phone had synced with the laptop that resulted
9 in those text messages going over to the laptop. Were you able
00:07 10 to determine that?

11 A. Yes. With the exception of 1385, the messages were
12 included in the iPhone 5 backup.

13 Q. I'm sorry. 1385, was that a different iPhone?

14 A. Yes. That came from the iPhone 3. That was another
15 Mobilsync backup that was on the device.

16 Q. Thank you for clarifying that.

17 For the remainder, which phone were you able to
18 attribute those to?

19 A. All but 1385?

00:08 20 Q. All but 1385.

21 A. Yes. The iPhone 5.

22 Q. And that's --

23 MR. CHAKRAVARTY: I think this is in evidence. Your
24 Honor, if I could have this published?

25 THE COURT: Displayed?

1 MR. CHAKRAVARTY: Yes, please.

2 Q. This is what's marked 1411, also on the 1R6 device. Was
3 there an ICC ID number on this?

4 A. Yes.

5 Q. Were you able to match that up with an ICC ID number
6 somewhere else in the investigation?

7 A. Yes, from the iPhone 5 on -- I believe it's 2W1.

8 Q. Moving over to --

9 A. I'm sorry.

00:09 10 Q. 2W2?

11 A. 2W2, I'm sorry.

12 Q. Were you able to read the SIM card, and is that the same
13 number?

14 A. Yes.

15 Q. I just pulled up on the screen 1151-16, which is a
16 photograph of the SIM card that you looked at on Thursday, is
17 that right?

18 A. Yes.

19 Q. In addition, I had asked you on Thursday whether there
00:09 20 were some text messages that were extracted from an iPhone of
21 Dias Kadyrbayev. Do you recall that?

22 A. I do, yes.

23 Q. Over the weekend, were we able to redact a version of
24 those text messages?

25 A. Yes.

1 MR. CHAKRAVARTY: And I'd move into evidence Exhibit
2 1153, which is the redacted version.

3 MR. FICK: Still the confrontation and foundation
4 objection.

5 THE COURT: All right. Subject to that objection,
6 overruled. Admitted.

7 (Exhibit No. 1153 received into evidence.)

8 MR. CHAKRAVARTY: Call up 1153 on Sanction, please.

9 THE COURT: Publish?

00:10 10 MR. CHAKRAVARTY: Yes, please. Thank you.

11 Q. Agent Swindon, are these text messages that were from
12 April 18, 2013, from Dias Kadyrbayev's phone between Dias and
13 the person listed as Jahar, with a phone number 857-247-5112?

14 A. These messages were present on that phone, yes.

15 Q. The text box on the right, does it say, "I saw the news"?
16 "Better not text me, my friend." And then --

17 A. Yes.

18 Q. And then does that same user say, "If you want, you can go
19 to my room and take what's there, Smiley face, Bro, salaam
00:11 20 alaikum"?

21 A. Yes.

22 Q. Now, I wanted to clarify --

23 MR. CHAKRAVARTY: Thank you, Mr. Bruemmer.

24 Q. I wanted to clarify a few points about a couple of the
25 devices, the external hard drive devices. There was one that

1 was found in Watertown, on Laurel Street, that we've introduced
2 as Exhibit 1475. Do you recall that?

3 A. Yes. Can you bring up the original exhibit that had the
4 list, please?

5 Q. Sure. You want the list, the spreadsheet?

6 A. Yes, please.

7 Q. So we were talking about the 1W16, is that right?

8 A. Yes, sir.

9 Q. And were there certain files that were -- appeared to be
00:12 10 scanned versions of Russian textbooks on this hard drive?

11 A. There were files on that 1W16 that were in a format --
12 that were recovered in a format called DjVu. DjVu is a
13 proprietary format, similar to, like, a PDF file or an Adobe
14 PDF, although not widely used anymore. Those files were
15 converted from DjVu to PDFs for trial purposes or exhibit
16 purposes.

17 Q. And so moving into that hard drive, is this an example of
18 the fact that those are now PDFs so that they can be opened in
19 front of the jury?

00:13 20 A. Yes.

21 Q. On that same hard drive, I think you mentioned on Thursday
22 that there was a file that appeared to be a document which was
23 a homework assignment of somebody that -- named Giovanni
24 Norgill. Was that in the active directory of the computer hard
25 drive, or where did you locate that?

1 A. Could you go back one, please?

2 Q. Sure.

3 A. Thank you. Yeah, the 1475-03 was a carved/recovered file
4 from a previous directory structure that existed on the hard
5 drive.

6 MR. FICK: Your Honor, I'd just ask the exhibit be
7 modified at a convenient time to conform to the format of the
8 other exhibits where carved files were stored separately so as
9 not to mislead anybody.

00:14 10 THE COURT: I'm not sure I followed that. They're
11 organized --

12 MR. FICK: The exhibits have largely been organized to
13 sort of show the location of the files the way they were on the
14 active device. Where there were carved files on most of the
15 other exhibits, those were put in a separate folder so no one
16 is confused about whether they were there or whether they were
17 deleted and recovered.

18 MR. CHAKRAVARTY: I don't have a problem with that,
19 your Honor.

00:14 20 THE COURT: Okay.

21 Q. Now, these DjVu files -- DjVu is just a -- is that a
22 software tool?

23 A. It's a file format that they would be put into.

24 Q. Were there also DjVu files found on the thumb drive that
25 was found in the landfill that you've called L14 and we've

1 marked as 1150?

2 A. Could you go back to the spreadsheet, please? Yes.

3 Q. And with regards to those DjVu files, were those also
4 converted to PDF?

5 A. Those were also converted to PDF.

6 Q. Were some of those DjVu files actually corrupted, and you
7 weren't able to access them?

8 A. I believe that four of those files were corrupted and
9 unable to be accessed.

00:15 10 Q. To refresh your memory, was it Files No. 26, 27, 28, and
11 33 that were corrupted?

12 A. Yes, it was.

13 Q. For purposes of trial presentation, were those replaced
14 with intact versions of those PDFs from another device?

15 A. The disks that I was asked to review had an intact version
16 of that file on it.

17 Q. But it wasn't intact when you found it?

18 A. It was not.

19 MR. FICK: Again, I'd ask the exhibit then be modified
00:15 20 to conform to what was actually there.

21 MR. CHAKRAVARTY: Again, no objection, your Honor.

22 THE COURT: Okay.

23 Q. Now, the names of carved files, you explained what carving
24 is. I'm not going to ask you to rehash what that is. But what
25 did the names of carved files appear as when they're carved out

1 of this unallocated space?

2 A. In the application software, it doesn't -- it's not coming
3 out of a directory so it doesn't have the name of the file,
4 although it might be able to carve that file out of the
5 unallocated space. It has to find some way of accessing it in
6 the application software. So it starts a numerical numbering
7 system unique to that carved file.

8 Q. What is the name when your software exports a carved -- a
9 series of 1's and 0's that software recognizes to be a file,
00:16 10 what does it name that file?

11 A. It would be a sequential number that was generated by the
12 application software.

13 Q. Again, for trial presentation purposes, where there was no
14 name on the file itself, or no decipherable name on the file
15 itself, but there was in the document, were any of the
16 documents' titles changed in order to reflect the content?

17 A. The carved file titles were changed to reflect the
18 content, yes.

19 MR. FICK: Same request to correct the exhibit.

00:17 20 THE COURT: Okay. All right.

21 Q. Now, sticking with this thumb drive that was found in the
22 landfill, were you able to determine whether that thumb drive
23 had ever been plugged into the Sony VAIO laptop computer, 1R6,
24 Exhibit 1142?

25 A. Yes, we were.

1 Q. How were you able to do that?

2 A. Again, from Thursday, the registry file which is
3 associated with every Windows computer collects and stores
4 information of devices that were installed into that -- into
5 that computer. And there was an entry in that registry that
6 showed the serial number from that thumb drive in the registry
7 file.

8 Q. If I may ask to publish Exhibit 1142-02, does this show a
9 Kingston thumb drive being plugged into the 1R6 computer from
00:18 10 the registry information?

11 A. This information was extracted from a link file, and it
12 shows the volume serial number which is unique to the Kingston
13 thumb drive -- or this particular Kingston thumb drive.

14 Q. You checked the registry to match up that Kingston thumb
15 drive to the one that was found in the landfill?

16 A. Yes.

17 Q. We had talked a little bit about Tamerlan's computer, the
18 D385 that was found in Laurel Street in Watertown; do you
19 remember that?

00:18 20 A. We did, yes.

21 Q. You didn't do the same extraction of files or verification
22 of files that were on that computer, did you?

23 A. We did not.

24 Q. Did you find files of a similar nature on that computer as
25 those that you talked about?

1 A. There was a cursory look of that computer done, and there
2 were numerous files that were of the same title.

3 Q. Was there anything unique about how Tamerlan's computer
4 was set up?

5 A. One unique thing is that on D385 had a TrueCrypt volume on
6 the drive. And TrueCrypt is an encryption software. It's
7 readily available and it's actually freeware. You can
8 download, and it will allow you to be able to encrypt a file, a
9 folder or a drive -- or a volume, I'm sorry.

00:19 10 Q. When you say "encrypt," what does that mean generally?

11 A. Encrypt would be to change it from cleartext, which is
12 readable, to a ciphertext, which would be unreadable to anybody
13 who didn't have the password to decrypt it.

14 Q. That's another type of password protection?

15 A. It would be more data protection than password protection.

16 Q. Finally, I asked you about some of the commonalities of
17 files across some of the devices on Thursday.

18 MR. CHAKRAVARTY: Can we call up Exhibit 1438 just for
19 the witness?

00:20 20 Q. Do you recognize this chart?

21 A. I do, yes.

22 Q. What is it?

23 A. This is an MD5 hash analysis, as we talked about on
24 Thursday, which is the sort of fingerprint for the file. And
25 this is an analysis of files that are common across 1R6, 1437,

1 14-6, and 3R5.

2 Q. So those are four devices that you talked about on
3 Thursday?

4 A. Yes.

5 Q. And would this chart help you explain some of the
6 propagation of those files across those devices to the jury?

7 MR. FICK: Objection to the form of the question.

8 THE COURT: Overruled. You may answer.

9 A. Yes.

00:21 10 MR. CHAKRAVARTY: Your Honor, I'd mark this as a
11 chalk, please, and ask to publish.

12 THE COURT: Okay.

13 Q. Agent Swindon, is this a selected file listing from the
14 1R6 Sony VAIO laptop, 1142?

15 A. Yes, it is.

16 Q. And are these some of the audio files from that computer
17 that we can see from the MP3 file type?

18 A. Yes.

19 Q. Did you see these across various devices?

00:21 20 A. We did.

21 Q. Moving on in the same chart, did you see the same files on
22 the iPod Nano labeled "Jahar"?

23 A. Yes.

24 Q. How did you determine that they were the same files?

25 A. Not only do the -- in most cases, the title of the files

1 match but the MD5 hash value matches.

2 Q. And the MD5 hash value you described as the fingerprint
3 for each file?

4 A. Yes.

5 Q. And did you find the same files on the iPod Shuffle that
6 was found in Watertown that was labeled "MP3 play"?

7 A. Yes.

8 Q. Again, was it through the same MD5 hash value analysis?

9 A. Yes.

00:22 10 Q. And the 3R5, which was the Samsung Finesse phone that was
11 found in the dormitory room at UMass Dartmouth, did you find
12 those same files?

13 A. Yes.

14 Q. And so does this table indicate the common files that --
15 those common files that you just mentioned that were on all
16 four of those devices?

17 A. Those particular files, yes.

18 MR. CHAKRAVARTY: Your Honor, I think foundation has
19 been met to move to introduce this as evidence under 1006, your
00:23 20 Honor, so I would so move.

21 MR. FICK: I'd object to the word -- the title of the
22 file because it suggests a direction of the movement has not
23 been established.

24 THE COURT: Overruled. I'll admit it as an exhibit.
25 What's its number?

1 MR. CHAKRAVARTY: 1438.

2 THE COURT: Okay.

3 (Exhibit No. 1438 received into evidence.)

4 MR. CHAKRAVARTY: Those are all the questions I have
5 for Agent Swindon at this time, your Honor.

6 MR. FICK: Just a moment to set up.

7 CROSS-EXAMINATION BY MR. FICK:

8 Q. Good morning, Agent Swindon.

9 A. Good morning.

00:24 10 Q. My name is Bill Fick. I'm one of Mr. Tsarnaev's
11 attorneys.

12 You spent a good part of your testimony, both today
13 and last week, talking about Exhibit 1142, which are the
14 collection of files from the Sony VAIO, right?

15 A. Yes.

16 Q. And at one point last week when you were talking about
17 that exhibit, you said -- and I think -- I'm quoting, "This was
18 a representative sample that was given to us to verify." Do
19 you remember saying that?

00:25 20 A. Yes.

21 Q. And that actually wasn't an accurate statement, right,
22 because there's nothing representative at all about what's on
23 1142, fair to say?

24 A. That was a sample of what was on 1142.

25 Q. A sample selected by the investigative team at the FBI,

1 right?

2 A. By the investigative team.

3 Q. So it's not representative in some proportional way of
4 what was on the Sony, right?

5 A. There were hundreds of thousands of files on the Sony 1R6.

6 Q. Just to make it a little more concrete, there was a lot of
7 Mr. Tsarnaev's homework on the Sony, right?

8 A. I would have to confirm it by looking at it, but I wasn't
9 asked to verify that there was particular homework assignments
00:25 10 on it.

11 Q. There was one homework assignment among the exhibits that
12 you talked about, right? And that was an assignment about
13 drones from high school; do you remember that?

14 A. If you could pull it up for me, sure.

15 Q. Just to go backwards, you recognize this as being Exhibit
16 1142, right? Going inside the Sony laptop, going to public,
17 and the first document there is the assignment about drones
18 that I believe you talked about, is that right?

19 A. I verified that 147 existed on that computer, yes.

00:26 20 Q. You're aware that there were other homework assignments on
21 the computer right? You looked at the computer, and this was
22 one file that was selected for you to make sure was there?

23 A. There was numerous documents and files on that computer.

24 Q. And the Exhibit 1142 that you talked about also included a
25 selection of audio files, music, right? The nasheeds we've

1 been talking about that you verified?

2 A. Yeah. There were nasheed files on that computer, yes.

3 Q. That was a selection that the investigative team gave you
4 that you then verified were there, right?

5 A. Yes.

6 Q. And we're talking about -- it was a couple dozen files,
7 something like that, that you talked about?

8 A. I'd have to see the exact number, but I don't have that in
9 front of me.

00:27 10 Q. All right. Well, we can do that again.

11 THE COURT: Mr. Fick, I'm not clear whether you want
12 this just for the witness or for the witness and the jury.

13 MR. FICK: I'm going through stuff that's in evidence,
14 your Honor, so I would leave it on the screen if that's okay.

15 THE COURT: Okay.

16 MR. FICK: Thank you.

17 Q. Well, whatever the number was, the bottom line is there
18 was a group of files that were on the disk that we talked about
19 -- that you talked about last week that you verified, right?

00:28 20 A. There were files that I was asked to verify existed on
21 that computer, yes.

22 Q. And it was a small collection of the over 400 MP3 audio
23 files that were on that computer, right?

24 A. I don't know the exact number of MP3 files on the
25 computer.

1 Q. When you were in the process of verifying the files, you
2 looked at the 4,000-or-so-page long list of everything on the
3 computer, right?

4 A. We did a comparison, yes.

5 Q. So you have noticed, in looking at that list, there were
6 many hundreds of audio files on the computer, correct?

7 A. Again, I don't know how many MP3 files were on that
8 computer in total.

9 Q. Are you willing to even estimate that we're talking many
00:29 10 hundreds of files?

11 A. Not without the time to be able to analyze the data.

12 Q. Well, in any event, in addition to the nasheeds that you
13 talked about in your testimony --

14 MR. FICK: If I can get my screen back here.

15 Q. -- there were -- there was pop music on the computer,
16 right? Did you happen to notice that when you were looking at
17 the audio files?

18 A. I would only recognize them by the titles of the MP3s when
19 I was looking through and verifying the ones I was asked to
00:30 20 verify. I did not listen to the actual MP3 files. We weren't
21 asked to verify.

22 Q. Fair to say you recognized a large number of pop music
23 audio titles in verifying the MP3 files on the computer,
24 correct?

25 A. There were a few titles there that I would recognize, yes.

1 Q. Just by way of example, I'm going to pull up a screenshot
2 of Page 2126 of Exhibit 1142-152. And, for example, the title
3 we've heard other times in this trial is on this computer,
4 *Jay-Z, Ain't No Love in the Heart of the City*; do you see that?

5 A. I do see that. 1142, is that the actual exhibit that I'm
6 looking at?

7 Q. Yes. You're looking at Page 2126 from Exhibit 1142-151.
8 Do you see that?

9 A. If that's the complete file listing from 1142, then, yes.

00:30 10 Q. And that's the complete file listing or something like it
11 that you used to go through and verify whether various files
12 were on the computer, correct?

13 A. That is one of the techniques that we used, yes.

14 Q. And the total number of exhibits -- sub-exhibits numbered
15 on 1142, I think the highest number is 151 or something like
16 that, is that right?

17 A. I would have to see it, sir.

18 Q. Okay. We'll pull it up again. 1142-151, that's the sort
19 of last document there. That's the giant file listing we were
00:31 20 just looking at, right?

21 A. I believe that's the last file -- the last exhibit from
22 that piece of evidence, yes.

23 Q. 151 sub-exhibits from this computer out of a half a
24 million files, is that right?

25 A. That would be fair to say, yes.

1 Q. So we're talking about something like
2 three-ten-thousandths of one percent of the files from that
3 computer, right?

4 A. I don't think it's realistic that we looked at every
5 single solitary file on that computer to show here in court.

6 Q. I'm not asking you if you looked at every single solitary
7 file. I'm just asking whether the selection that the
8 investigative team included on this disk is a flyspeck compared
9 to 500,000?

00:32 10 A. I'm not sure what the definition of a flyspeck is, but if
11 you'd want to go back to the percentage, we could do the math,
12 I guess.

13 Q. Who selected what files were going to go on this disk?
14 You said it wasn't you.

15 A. There was an investigative team which was made up of
16 investigative analysts, case agents, prosecutors, forensic
17 specialists. And that's primarily members of the investigative
18 team.

19 Q. Can we put some names on that? Do you know who actually
00:32 20 made the choice?

21 MR. CHAKRAVARTY: Objection, your Honor. It's asking
22 him to speculate.

23 THE COURT: No. You may answer if you know.

24 A. I don't know who actually selected every single individual
25 one of these files. I do not.

1 Q. So do you believe it was different people that did it,
2 multiple people that did it?

3 A. There were multiple analysts that were working on this
4 investigation, yes.

5 Q. Who sort of provided you with the finished package? Who
6 tasked you with, Here's a list? Check and see if they are
7 there?

8 A. That was a combination of the senior investigative
9 analyst, the case agents, and the prosecutors.

00:33 10 Q. So who's the senior investigative analyst?

11 A. John Petrozelli.

12 Q. And him and a collection of case agents and the
13 prosecutors together, in some ceremonial forum, gave you the
14 disks altogether?

15 A. Well, it wasn't very ceremonious. It was, Here's a stack
16 of CDs, and I need you to verify and validate that there's
17 information on these CDs.

18 Q. Bottom line is you're not the one who selected them?

19 A. I did not select them, no.

00:33 20 Q. Okay. Now, what about the various spreadsheets that are
21 in each of these exhibit files, the various -- these derivative
22 exhibits you talked about, the spreadsheets of internet history
23 selections, et cetera? Who made those?

24 A. The investigative team also made those.

25 Q. So as to any individual spreadsheet, can you say who in

1 particular actually made it?

2 A. Not every single one, no.

3 Q. For any of them, do you know who made them?

4 A. I do, yes; several, I do.

5 Q. For example, can you just tell me one of the ones on the
6 screen here and tell --

7 A. If you'd like to pick one, I could certainly --

8 Q. Yes, please.

9 A. Which number?

00:34 10 Q. Well, no. You said you only knew some of them. So pick
11 one that you know who made it and tell me.

12 A. Could you make the screen a little bigger, please, so I
13 can see the complete names of the file list?

14 So the selected internet -- the selected internet
15 activity or 001.

16 Q. Yes.

17 A. Yes, sir.

18 Q. Who made that one then?

19 A. That was John Petrozelli.

00:34 20 Q. When you went through to verify the materials on these
21 disks, did you verify each of the spreadsheets for accuracy as
22 well?

23 A. I went over the spreadsheets with Mr. Petrozelli, and we
24 accessed the Internet Evidence Finder data and compared the
25 two, yes.

1 Q. So did you compare them line by line?

2 A. We went line by line with the results from his Internet
3 Evidence Finder search.

4 Q. Now, what about exhibits that aren't from internet
5 evidence, exhibits that are fileless from the computer, did you
6 verify those line by line?

7 A. The file list for the computers are generated by the
8 forensic software, which they're approved tools. Previous to
9 us using the tool, that file listing is an accepted practice
00:35 10 within the SOPs of the guidelines.

11 Q. I understand, for example, that -- correct me if I'm wrong
12 -- something like Exhibit 151, the massive 4,000-page list,
13 that's generated by a computer or software, right?

14 A. That's generated -- actually, the name is in the title.
15 It's generated by a product called X-Ways Forensics.

16 Q. But the other exhibits, the sort of subsets, the
17 derivative samples, the extractions of a limited number of
18 files, that's done by some human being, right? If you just
19 take, for example -- let me just ask the question more
00:36 20 generally. There's the 4,000-page list of all the files in the
21 computer, right?

22 A. Yes, sir.

23 Q. There were various other spreadsheets with lesser lists of
24 certain files that the FBI determined were relevant to the
25 investigation you should talk about, right?

1 A. You mean lesser directory listing files?

2 Q. Lists, sublists of the big one. They contain a smaller
3 number of files in the list.

4 A. There are derivative lists that have been entered in as
5 evidence that were sublists of other information or have been
6 gotten from the computer.

7 Q. For example, 1142-13, right, these are various selected
8 user files from the Sony laptop, right?

9 A. Yes.

00:37 10 Q. And this is a five-page spreadsheet as opposed to 4,000
11 pages, right?

12 A. Yes.

13 Q. So some human being picked some of the files on the
14 4,000-page list and included them on the smaller five-page
15 list, right?

16 A. Yes.

17 Q. Okay. As to such spreadsheets, the smaller lists, the
18 sublists, did you go through each of those and verify that each
19 of the actual entries, the files and the dates and times
00:37 20 associated with them, were actually on the master list?

21 A. These were generated from the master list.

22 Q. They were generated from the master list in the form of
23 somebody cuts and pastes different entries, right?

24 A. Again, I'm not sure the process, whether they were
25 hand-typed or cut and pasted, but these were generated from

1 information that was from the main directory listing in the
2 case.

3 Q. Okay. Did you go through them line by line and make sure
4 there was no error in the moving from here to there, as a
5 general matter, for all of these spreadsheets?

6 A. Well, I verified that the information included in these
7 spreadsheets is included in the master directory listing.

8 Q. My question is a little bit different. I'm talking about
9 did you go through line by line and make sure nothing

00:38 10 extraneous got in there, nothing fell out that should be there?

11 A. I verified that the information that is in the
12 spreadsheets that were generated from the master directory list
13 was in the master directory list.

14 Q. Did you do that on a line-by-line basis?

15 A. For each of these?

16 Q. For each of the spreadsheets that you've talked about
17 here.

18 A. Yes.

19 Q. Every single one?

00:38 20 A. Every single one, from every single piece of evidence or
21 every single one from 1150 -- I mean 1142?

22 Q. Speaking generally now about the collection of exhibits
23 that was put into evidence through you last week, each of those
24 disks has a number of derivative spreadsheets on them, fair to
25 say?

1 A. They have a number of different types of spreadsheets,
2 yes.

3 Q. Among those spreadsheets on each of them is a derivative
4 spreadsheet, a selected file list from each of the devices,
5 right?

6 A. Not every single one.

7 Q. Let me try and ask the question a little bit more
8 specifically then. As to Exhibit 1142-13, the selected file
9 list off of the Sony, did you review that spreadsheet line by
00:39 10 line to make sure it was all accurate?

11 A. I did.

12 Q. Okay. And did you do the same thing for all of the other
13 like spreadsheets that are derivative file lists in the other
14 exhibits?

15 A. Right. But there are a number of different types of
16 spreadsheets that are in each of the different types of
17 evidence, so there may have been different techniques used.

18 Q. Okay. As a general matter, for whatever the technique
19 was, did you verify each spreadsheet line by line?

00:39 20 A. Not general but specifically, yes.

21 Q. Now, you are a supervisory special agent, right?

22 A. I am, yes.

23 Q. And you're both an agent and a certified computer analyst,
24 right?

25 A. Certified computer analyst? I'm not sure what that means.

1 Q. Well, you talked about the various kinds of training and
2 certification you have in computer forensics, right?

3 A. Prior to being a supervisor, I was a certified forensic
4 examiner, yes.

5 Q. And so you have training as both sort of the standard FBI
6 agent training, and you have additional specializations in
7 computer forensics, fair to say?

8 A. Yes.

9 Q. And you are the supervisor in Boston for both the Cyber
00:40 10 National Security Squad and for the CART team; as I understood
11 it, correct?

12 A. Yes. The CART program comes under my supervision.

13 Q. And remind us again what CART stands for.

14 A. It's the Computer Analysis Response Team.

15 Q. And so the people you supervised did a lot of work
16 collecting, processing and analyzing the hundreds of pieces of
17 digital evidence that were collected in this case, right?

18 A. Yeah, people that I directly supervise and then people
19 from other field offices also, yes.

00:40 20 Q. But you are the CART supervisor in Boston, right?

21 A. I am the supervisor for the CART program in Boston, yes.

22 Q. And the various items, if we pull up, for example, the
23 little exhibit, the chalk, that Mr. Chakravarty talked about
24 with you a fair amount -- I believe it was marked as 1557. In
25 general, the items that you've been talking about were all

1 processed at either Black Falcon or Center Plaza here, right?

2 A. Or Quantico, yes.

3 Q. Or Quantico, a few of them down at the bottom. But a
4 large number of them at Black Falcon and Quantico, right?

5 A. Center --

6 Q. I'm sorry, Black Falcon and Center Plaza, right?

7 A. Yes.

8 Q. Those are the -- these -- that's where the CART people
9 worked that you supervise, right?

00:41 10 A. Not permanently. They work in Center Plaza. Black Falcon
11 was the --

12 Q. It was temporary?

13 A. Yes.

14 Q. But you supervise CART in Boston; that's the bottom line?

15 A. Yes.

16 Q. Now, so you then had an oversight role in the activities
17 of analyzing the data from the devices collected in the Boston
18 Marathon investigation, right?

19 A. A -- I had an oversight role of the individuals or the
00:42 20 people that were responsible, yes.

21 Q. As time went on, as a supervisor, you reviewed their work
22 product from time to time, right?

23 A. We do periodic file reviews of what's assigned to
24 individual examiners, but I don't micro what they're working on
25 in any one given time.

1 Q. But you're certainly aware of what the people under your
2 supervision are doing, right?

3 A. Yes.

4 Q. And you discuss issues that may come up from time to time,
5 right?

6 A. Technical issues or personnel issues?

7 Q. Issues related to the work that they are doing on the
8 investigation.

9 A. Yes.

00:42 10 Q. So you have an awareness of the investigation of digital
11 evidence related to the Boston Marathon bombing?

12 A. Yes.

13 Q. Pretty big investigation in your career, I take it, right,
14 in terms of scope and complexity?

15 A. One of them, yes. I mean, it's not -- it's the same
16 proportion as 911 or several others that I've been involved in,
17 yes.

18 Q. Big, big operation?

19 A. Yes.

00:43 20 Q. I think you testified that the FBI has a very standardized
21 process for acquiring and processing digital evidence, right?

22 A. The certification process has -- yes, has -- to become a
23 certified examiner, there is a standard process, yes.

24 Q. The process of actually doing the investigation, taking
25 the device, imaging it, processing it, that's all very

1 standardized also, isn't it?

2 A. Yes.

3 Q. It's important to document that process, too, at each step
4 of the way, to record what has happened and who did it, right?

5 A. It's different for different devices, and each examiner is
6 -- has their sort of own way of doing it.

7 Q. Well, there's a standard chain of custody, for example,
8 that the FBI maintains for electronic evidence in these kinds
9 of investigations, right?

00:44 10 A. Yes.

11 Q. So that keeps track of a device gets imaged, right?

12 That's part of what happens here. There's a recording of the
13 fact of the device being imaged, right?

14 A. Well, the chain of custody is for the handling of
15 evidence, not --

16 Q. Right.

17 A. Not the process of the imaging or the processing.

18 Q. When a piece of evidence comes in and is imaged, that fact
19 is recorded as part of the chain of custody, right?

00:44 20 A. No.

21 Q. It's not?

22 A. It is not.

23 Q. Is there any other form in which the various steps taken
24 by the various people along the way in processing a piece of
25 digital evidence are recorded?

1 A. It would be in a final report.

2 Q. So there's no sort of ongoing, something -- there's
3 nothing analogous to a chain of custody for each step in the
4 process for a forensic investigation?

5 A. There is not, no.

6 Q. So, for example, going back now, we couldn't retrace the
7 steps of who did what from the moment of collecting the Sony
8 laptop through the present? We couldn't retrace that in a
9 paper trail?

00:45 10 A. Well, we could, sure.

11 Q. Using what then if there's no chain of custody that
12 records that?

13 A. There's the chain of custody for the actual piece of
14 evidence. We could show you who had custody of that piece of
15 evidence. Then, typically, in the notes that you'll see --
16 that we saw that we included in 1R6, you can see the name of
17 the person who would have imaged it.

18 Q. What about somebody who then processed the image, is that
19 recorded somewhere?

00:45 20 A. That would be in a final 302 report or a final report,
21 yes.

22 Q. So is it standard then for there to be some kind of a
23 final 302 report or other report about the analysis of a piece
24 of digital evidence?

25 A. At the conclusion of the request from the case agent or

1 from an analyst, the CART examiner would do a final sort of
2 piece of paper -- a final, I guess you would say, report of
3 what the activities that took place during the --

4 Q. A narrative report describing the examination of a device
5 is typically produced at the end of the road?

6 A. It would be more technical. It would be very technical,
7 but, yes.

8 Q. I'm going to show you a document and see if you recognize
9 it.

00:46 10 MR. FICK: May I approach, your Honor?

11 THE COURT: You may.

12 Q. Take a quick look at that, and tell me if you're familiar
13 with that document or you recognize what it is.

14 You recognize that document?

15 A. I recognize that document.

16 Q. It's a document you've seen before?

17 A. I have, yes.

18 Q. Is that something that you were involved in helping to
19 prepare?

00:47 20 A. No.

21 Q. Do people you supervise -- were people you supervised
22 involved in helping to prepare that?

23 A. One of the names on the report is somebody I do supervise,
24 yes.

25 Q. Who is that?

1 A. Nathans.

2 Q. Were you aware of the work being done on an ongoing basis
3 as that report was being put together?

4 A. Again, I'm not from a micromanagement standard. I do know
5 that Nick Nathans was assigned with Petrozelli, and they were
6 working on scoping down the voluminous information from the
7 investigation.

8 Q. Okay. So the report is 53 pages long, right?

9 A. I have 53 pages, yup.

00:48 10 Q. And this is -- it's essentially a report of examination by
11 FBI personnel about their review of the Sony VAIO, right?

12 A. I would say it's more of an analytical product than it is
13 an examination product.

14 Q. Well, it's a report of what the examiners found in looking
15 at the Sony VAIO, right?

16 A. I believe, in the context of the way the report is
17 written, it's an analytical product that was worked on with the
18 forensic examiner.

19 Q. Now, you see at the end -- actually, before the
00:48 20 appendices, there's a line that says --

21 MR. CHAKRAVARTY: Objection to reading from this
22 report, your Honor.

23 MR. FICK: Well.

24 Q. This is not a final report, fair to say?

25 A. This is an analytical report. I'm not sure what you mean

1 by "final" or "not final."

2 Q. Well, toward the end it says, "Analysis remains ongoing,"
3 right?

4 A. Where does it say that, sir?

5 Q. If we could turn to Page --

6 MR. CHAKRAVARTY: Again, your Honor, I'm not sure this
7 is impeachment as opposed to just trying to testify to the
8 contents of the report that he's seen.

9 THE COURT: Well, go ahead.

00:49 10 MR. FICK: Thank you.

11 Q. Very last page, actually, 53.

12 A. Okay.

13 Q. Last sentence, "Digital forensic analysis remains
14 ongoing"?

15 A. Yes.

16 Q. Do you know if there was a later iteration of this, a
17 further iteration of something like this, an update to it?

18 A. I don't know what version that I have here in front of me,
19 but I did not see an additional version.

00:49 20 Q. You're not aware of any additional version?

21 A. I'm not aware of any additional version.

22 Q. This version is undated, by the way, right?

23 A. The copy that you have is, yes.

24 Q. And do you know whether similar types of reports were
25 written about any of the other devices seized in the case?

1 A. There were a number of 302s that were produced by numerous
2 examiners regarding the different pieces of evidence.

3 Q. So there were narrative reports describing the findings of
4 the examiners, right, for other pieces of evidence?

5 MR. CHAKRAVARTY: Objection, your Honor.

6 THE COURT: Overruled. You may answer it.

7 A. This report is unique in that it is a -- it's an
8 analytical report that was worked on with the senior analyst
9 and the CART examiner. The other reports that I'm making
00:50 10 reference to were -- would have been final 302 reports or final
11 reports that were technical details of what was performed
12 during the examination, not an analytical product.

13 Q. So the Sony was treated uniquely? It wasn't treated the
14 same as like the Samsung or the HP computers?

15 A. No. I think they were all treated the same. I think it
16 probably garnered the most attention.

17 Q. Do you know whether analytic reports were produced as to
18 the HP or the Sony?

19 A. Say that again.

00:50 20 Q. Do you know whether analytical reports were produced as to
21 the HP or the Sony?

22 A. Which numbers specifically are those, sir?

23 Q. Going to your chart on your screen, the HP is 2R14 from
24 Norfolk Street, and the Samsung is the 1W3 from Watertown,
25 right?

1 A. Yeah. I don't recall whether or not there were reports
2 done on those two.

3 Q. You don't know?

4 A. I don't recall.

5 Q. Anyway, these are the kinds of reports -- or this report
6 of the Sony is the kind of report that FBI agents and analysts
7 rely upon in the process of doing their investigations,
8 correct?

9 A. I'm not sure what you mean by that question, but I know
00:51 10 this report was produced by the senior analyst that was
11 assigned to the case.

12 Q. It's produced by the senior analyst and then provided to
13 people like investigating agents and prosecutors, right?

14 A. It's provided to the team members, yes.

15 Q. And the purpose is to give them some insight into what's
16 on that digital device, right?

17 A. Give them some insight or -- because, again, the volume of
18 data is so voluminous that they need some way to be able to
19 scope down what's on there to what's relevant to the
00:52 20 investigation.

21 Q. So this is a standard part of your practice, is to create
22 an analytical report and provide it to the people who need it,
23 right?

24 A. It's not a standard part of the process.

25 Q. So, again, the Sony was somehow treated differently?

1 A. No. I don't supervise the analytical branch, so I'm not
2 sure what is standard practice for analytical products. I know
3 the forensic -- the computer forensic side.

4 Q. Now, looking again at the chart on the screen, you
5 testified last week and introduced a bunch of exhibits related
6 to each of these devices, right?

7 A. Not all of them but some of them, yes.

8 Q. Do you know if the FBI has analyzed the interrelationships
9 between these devices themselves and between these devices and
00:52 10 other devices?

11 A. There's been some analysis for that, yes.

12 Q. Do you know if there's been analysis of whether files, for
13 example, can be traced moving from one to another?

14 A. There's been -- yes.

15 Q. Do you know whether there's analysis of whether these
16 devices were connected to each other at specific times?

17 A. "Connected" meaning networked?

18 Q. Attached.

19 A. Attached? I don't recall whether or not there's been
00:53 20 analysis of whether they were actually attached. Are you
21 talking about specifically the computers or you mean, like, a
22 thumb drive put into a computer?

23 Q. For example, a few minutes ago with Mr. Chakravarty you
24 talked about a single event where you looked at the registry
25 and found that the Kingston was plugged into the Sony at a

1 certain time, right?

2 A. Yes.

3 Q. Do you know whether's there's been sort of more
4 symptomatic investigation tracing the history of a thumb drive
5 among all the devices in the case?

6 A. Among all of the computers in the case?

7 Q. Sure. Let's start with that.

8 A. So 1R6, 2R14, and D385?

9 Q. Right.

00:53 10 A. Yes. I don't recall there's been an encompassing report.
11 I do know that we've looked at whether or not what devices had
12 gone into 1R6 and 2R14.

13 Q. So 1R6 is the Sony, and 2R14 is the Hewlett-Packard from
14 Norfolk Street, right?

15 A. It is, yes.

16 Q. Do you know if there's been similar analysis of tracing of
17 various devices to the Samsung, 1W3?

18 A. D385?

19 Q. Yes.

00:54 20 A. Again, I did a cursory look of D385. I didn't do an
21 exhaustive search or weren't asked to verify whether or not
22 those devices were in D385.

23 Q. I'm not asking about your search of 385 yourself. I'm
24 asking whether you are aware of whether the FBI did an
25 investigation of the history of device attachments into D385 .

1 A. I don't recall -- I haven't seen an analytical report, so
2 I can't comment on that.

3 Q. You don't know?

4 A. I cannot comment on that.

5 Q. It is fair to say you would agree with me, wouldn't you,
6 that the interrelationship among devices can be an important
7 thing to know in an investigation, right?

8 A. The interrelationship between the different pieces of
9 evidence, say, thumb drives and computers?

00:54 10 Q. Yes.

11 A. And external drives?

12 Q. Yes.

13 A. Yes.

14 Q. That can tell you something about, for example, the
15 interrelationship among suspects, among other things, right?

16 A. I think, like we said -- we had mentioned on Thursday,
17 barring having a camera over somebody's shoulder, I'm not sure
18 you could tell exactly who might be at the keyboard.

19 Q. But it's useful to know when various devices might have
00:55 20 been connected to each other and interacted with each other,
21 right?

22 A. It is, yes.

23 Q. That can give you some evidence to make inferences about
24 the relationships among the people who may have used those
25 devices, right?

1 A. Probably more pattern-of-life information than inferences.

2 Q. You would also agree with me, wouldn't you, that there
3 were other devices that were important to the Boston Marathon
4 investigation that are not listed here at all?

5 A. There are over 600 -- 600 pieces of digital media alone.

6 Q. You have some knowledge, though, certainly of what the
7 investigation found and how it happened, right?

8 A. I do in the first couple of weeks as I was intimately
9 involved in the operations of the command post. When I assumed
00:55 10 my regular duties, I was overseeing the computer forensic
11 portion or the digital media portion.

12 Q. Right. So you supervised the CART team, the people that
13 are analyzing these devices, right?

14 A. Yeah. They're providing support to the analysts, yes.

15 Q. Along the way then, you have knowledge of the kinds of
16 things the people that work under you are discovering, correct?

17 A. In general, yes.

18 Q. You're aware, for example, that there were a couple
19 computers seized also from Katherine Tsarnaeva, Tamerlan's
00:56 20 wife, correct?

21 A. I would have to see the full evidence list. I don't have
22 that list in front of me. Again, with over 600 pieces of
23 evidence, I don't have the recollection.

24 Q. It doesn't stick out in your mind whether or not a couple
25 of devices were seized from Tamerlan's wife?

1 A. I didn't memorize every single piece of evidence that was
2 collected in this matter.

3 Q. I'm not asking that question. That wasn't my question,
4 sir. My question was whether you have a memory or whether you
5 have knowledge that computers were seized from Tamerlan
6 Tsarnaev's wife.

7 A. Specifically from his wife or from the Norfolk location?

8 Q. Whether you have knowledge that computers attributed to
9 Tamerlan Tsarnaev's wife were seized in the investigation?

00:57 10 A. I don't recall.

11 Q. You don't recall. Are you aware that cell phones
12 attributed to Tamerlan Tsarnaev were seized in the
13 investigation on Laurel Street in Watertown? They're not on
14 the list either, are they?

15 A. There were over 200 cell phones that were seized in this
16 matter.

17 Q. You would agree, right, that the cell phones belonging to
18 one of the two suspects are important pieces of evidence,
19 right?

00:57 20 A. You mean during the course of the investigation or to date
21 right now?

22 Q. In general. If the suspect -- one of the two suspects in
23 the bombing has a cell phone, you understand that's going to be
24 an important piece of evidence, a valuable piece of evidence,
25 right?

1 A. It was during the course of the investigation at the very
2 beginning, yes.

3 Q. Okay. Just trying to establish those are also not on this
4 list, right, Tamerlan's phones?

5 A. I was not asked to verify any files from those devices.

6 Q. Understood. You would also agree with me that it can be
7 important -- sometimes be important to know when a computer
8 first began to operate or was manufactured, right?

9 A. I'm not sure I understand that question.

00:58 10 Q. Well, if you're trying to figure out when certain digital
11 events on a computer happened and how that fits into an overall
12 investigation, it can be a useful piece of information to know
13 when the computer first came into existence as we know it,
14 right?

15 A. When it was made by the manufacturer or when it was
16 purchased from the store or when the owner bought it?

17 Q. Any number of those things. Any one of those facts could
18 be a useful fact, right?

19 A. Potentially.

00:58 20 Q. The date Windows was installed on a Windows computer is an
21 important fact to know in understanding where a particular
22 device fits into the history of events, right?

23 A. Well, the Windows installation -- it depends. I would
24 need to have more information in order to assess that. Windows
25 installations -- you can actually install Windows multiple

1 times over the course of the life of a computer. So I could
2 own a computer and do multiple installations of Windows. So I
3 would have to have more information to --

4 Q. So you're not willing to say whether it's at least a piece
5 of information that might be useful to know?

6 MR. CHAKRAVARTY: Your Honor, objection to the
7 argumentative style both of this lack of concession as well as
8 Mr. Fick's questions asserting facts not in evidence.

9 THE COURT: Overruled.

00:59 10 A. So could you repeat the question, please?

11 Q. Are you willing to acknowledge that the date Windows was
12 installed on a computer could be an important piece of
13 information to place the device in a time context relative to
14 the investigation?

15 A. It is one piece of information that could be utilized.

16 Q. Okay. Let's actually make it a little bit more concrete.
17 Now, I'm going to pull up Exhibit 1142-11. This is a document
18 that describes or shows the date Windows was installed on the
19 Sony VAIO, correct?

01:00 20 A. When that particular version of Windows, with that product
21 key, yes.

22 Q. So that's the date here, 2/26/11, correct?

23 A. That's what's reported in the registry. That's from 11 --

24 Q. 1142-11, right?

25 A. Yes.

1 Q. Now, there's no evidence that any other version of Windows
2 previously existed on the Sony VAIO, is there?

3 A. There's no evidence -- can you rephrase that or ask that
4 question, please, again?

5 Q. There's no indication, no digital artifacts, on the Sony
6 VAIO to indicate Windows was ever installed before this date,
7 is there?

8 A. Yes, but there's also no to say that it wasn't.

9 Q. But as far as we know for purposes of this investigation,
01:00 10 the Sony laptop, as we know it, Windows on that laptop was born
11 on February 26, 2011, correct?

12 A. That particular version, that particular license, was on
13 that date.

14 Q. Okay. And you're not aware of any evidence to suggest the
15 computer existed earlier or that -- I'm sorry, that there was
16 ever an earlier version of Windows, that the computer existed
17 in some earlier form?

18 A. I haven't done the verification or analysis of that, no.

19 Q. You don't know the answer?

01:01 20 A. I haven't done the verification or analysis.

21 Q. As far as the evidence that's in the case then at least,
22 the install date of Windows on the Sony was February 26, 2011,
23 right?

24 A. This particular install of Windows, the date is collected
25 as 2/26.

1 Q. And the Hewlett-Packard, the 2R14, from the family
2 apartment in Cambridge -- I'm going to pull up 1143-08. This
3 shows that the Windows install date on that computer was
4 September 23, 2011, right?

5 A. Yes. Again, that particular license, that particular
6 product key, that particular software, yes, that's what's
7 collected in the registry.

8 Q. Again, there's no evidence, at least none you're aware of,
9 to suggest that there was ever an earlier version of Windows on
01:02 10 that computer, correct?

11 A. That, I don't know. We'd have to do a further analysis
12 for that.

13 Q. You don't know, in other words?

14 A. What I'm saying is we'd have to do further analysis to
15 determine that.

16 Q. It's not something that was ever brought to your
17 attention, right?

18 A. I was not asked to verify whether or not there were
19 previously versions of Windows installed on the computer.

01:02 20 Q. Sitting here today, you are not aware of any evidence to
21 suggest Windows ever previously existed on that computer?

22 A. I can tell you factually from the registry report here
23 that this particular version of Windows was installed on that
24 date.

25 Q. Okay. My question is: You're not aware of any evidence

1 to suggest that Windows was ever there earlier, correct?

2 A. Yes, but I'm also not aware whether it wasn't or not.

3 Q. I understand. But my question simply was: You're not
4 aware of evidence that Windows was there earlier?

5 A. I have not done the analysis to determine whether there
6 were previously versions of Windows on this computer.

7 Q. Now, as to the Samsung -- no -- yes, the Samsung, the
8 Samsung from Laurel Street in Watertown, Tamerlan's computer,
9 as you put it?

01:03 10 A. What number, sir?

11 Q. Going back to your exhibit -- I'm sorry, your chalk, so to
12 speak, 1577, I believe, talking about the Samsung laptop, 1W3,
13 Watertown.

14 A. So D385?

15 Q. D385. 1W3 is in parentheses, yes.

16 A. Yes. That type of analysis was not done -- I don't have
17 access to that analysis for D385.

18 Q. Right. So my question is: Are you aware of when Windows
19 was installed on that computer?

01:03 20 A. I'm not.

21 Q. Did you ever have an awareness of when Windows was
22 installed on that computer?

23 A. I wasn't asked to verify or validate whether it was or was
24 not.

25 MR. FICK: If I could just have the screen for the

1 witness, your Honor?

2 Q. Showing you a document and see if this helps you to answer
3 the question. First of all, do you recognize, in general, what
4 this kind of document is?

5 A. It's a security account manager information file.

6 Q. Does this help you answer the question, for example, of
7 when the Windows administrator account on the 1W3 was
8 installed?

9 A. The administrators account are typically a part of the
01:05 10 standard installation, so I'm not sure whether or not this was
11 user created or whether or not it was machine generated.

12 Q. Does this enable you to say or does this enable you to
13 agree with me that the Windows administrator account on the
14 Samsung laptop was created on September 21, 2011?

15 MR. CHAKRAVARTY: Objection, your Honor. There's no
16 foundation for what this document is, where it's from.

17 THE COURT: Sustained.

18 MR. FICK: If we can clear this, and we'll go back for
19 everyone in the courtroom to see again Mr. Swindon's summary
01:06 20 exhibit. Are we back up?

21 Q. So just to review, we established, if I'm not mistaken,
22 that the Sony VAIO Windows install was dated to February of
23 2011 just a few minutes ago, right?

24 A. If that's what was on that exhibit that you showed, then,
25 yes.

1 Q. And we established that the HP Pavilion was September of
2 2011, right?

3 A. If that's from the exhibit report, then, yes.

4 Q. And you're unable to say, sitting here today, when the
5 Samsung Windows install happened, right?

6 A. I don't have the information available to make that
7 determination.

8 Q. Now, at the time the Sony VAIO Windows install happened in
9 February of 2011, Mr. Tsarnaev was still a high school student,
01:07 10 right?

11 A. I don't know that information.

12 Q. Well, I mean, you know things like the names of his
13 friends, right?

14 A. I do. I am aware of some of his friends, yes.

15 Q. You know he was arrested after the Marathon bombings in
16 2013 when he was a sophomore at UMass Dartmouth, right?

17 A. I do.

18 Q. So back in 2011, two years prior, he would have still been
19 in high school, correct?

01:07 20 A. I'm not sure the dates he was in high school.

21 Q. You're not aware of what, if any, computer the family
22 might have shared on Norfolk Street before September of 2011
23 when the HP Windows was installed, right?

24 A. Can you reask that again, please?

25 Q. We established, I think, with you that the desktop

1 computer, the Hewlett-Packard, at Norfolk Street, Windows was
2 installed on that computer in September of 2011, right?

3 A. We've established that Windows was installed on that
4 computer, but that did not draw the conclusion that that's when
5 the computer was brought into the house.

6 Q. You're not aware of any evidence that that computer
7 existed earlier, right?

8 A. Not from the data that we have here, no.

9 Q. You're not aware of any other evidence to suggest if any
01:08 10 computer existed earlier or if there was some other computer,
11 right?

12 A. I don't have that information.

13 Q. You just don't know. But what we do know is that the Sony
14 VAIO, the Windows install on that that we know about, was in
15 February of 2011, right?

16 A. The Windows install from the registry shows that that
17 install of Windows was done on that date on that computer.

18 Q. And that's two years prior to the time when Mr. Tsarnaev
19 is a sophomore in college, right?

01:09 20 A. Again, I'm not aware of the dates when his -- what his
21 student record was.

22 Q. Now, talking further about the Sony, you talked a little
23 bit in your direct testimony about device attachments -- you
24 remember that -- just a few minutes ago with Mr. Chakravarty?

25 A. I'm sorry. You said --

1 Q. Device attachments. You talked about finding the date --
2 that one date when the Kingston was inserted into the Sony?

3 A. That was one that we spoke on, yes.

4 Q. Were you aware that Tamerlan's HTC phone was connected to
5 the Sony at least twice prior to September of 2011?

6 A. I wasn't asked to verify that piece of information.

7 Q. Is it something you ever came to learn in your
8 investigation, in your work on the investigation?

9 A. There are multiple devices that were in the USB store
01:10 10 which comes out of the registry that were reported being
11 plugged into 1R6.

12 Q. But you're not -- sitting here today, you're not aware
13 whether Tamerlan's phone was attached twice prior to September?

14 A. I don't have that information in front of me to verify
15 that.

16 Q. Do you know if anybody at the FBI ever dug that
17 information out?

18 A. I'm aware that the registry was looked at and the
19 USB-stored devices were looked at, yes.

01:10 20 Q. Was there some kind of written report prepared about that
21 that you know of?

22 A. I don't have that to access. I don't recall.

23 Q. You don't know?

24 A. I don't recall.

25 Q. Are you aware that the Sony was used by multiple Skype

1 accounts, over the course of its existence, from your review of
2 the Internet Evidence Finder reports?

3 A. I do know that the Skype was used by the defendant.

4 Q. Okay. Do you also know that Skype was used by an account
5 called Bella Rizvan?

6 A. If you could pull up the report, I don't have the entire
7 internet history memorized.

8 Q. So that's not something that you recall?

9 A. I don't have the report memorized.

01:11 10 Q. Do you have it with you?

11 A. Is it a part of the report that -- in the exhibit?

12 Q. Your report wasn't given to us. I'm asking you if you've
13 got access to it.

14 MR. CHAKRAVARTY: Objection, your Honor. Your report
15 wasn't given to us. This witness didn't draft a report.
16 There's no evidence of any report.

17 THE COURT: Well, let's get -- we haven't even
18 identified what the report is, so --

19 Q. Well, in your testimony last week, you talked about
01:11 20 reviewing the various computers with an application called
21 Internet Evidence Finder, right?

22 A. Yes.

23 Q. And that extracts certain information about the computer's
24 internet activity over its life, right?

25 A. It evaluates and parses out the internet activity from a

1 particular computer, yes.

2 Q. Among the things Internet Evidence Finder isolates are
3 artifacts indicating or suggesting uses of Skype, correct?

4 A. It does have a social media component to it, yes.

5 Q. That includes Skype, right?

6 A. Yes.

7 Q. Skype is a communication program, voice and text-type
8 messages between computers over the internet, right?

9 A. It's like a peer-to-peer video chat, yes.

01:12 10 Q. Okay. And you just said a minute ago you are aware that
11 there was a log-in for Jahar Tsarnaev on Skype on the Sony,
12 right?

13 A. Yes, because that was a part of one of the exhibits that
14 we produced for 1R6.

15 Q. I'm asking you now: Are you also aware there was an
16 account on there called Bella Rizvan on the Sony?

17 A. I was not asked to verify whether or not that account was
18 on that computer.

19 Q. My question, sir, wasn't whether you were asked to verify
01:12 20 that. It's whether you know that from yourself looking,
21 presumably recently, at the Internet Evidence Finder reports?

22 MR. CHAKRAVARTY: Objection, your Honor. Asked and --

23 THE COURT: Overruled.

24 A. I don't have that information here to make that
25 determination.

1 Q. Whether or not you have it here in front of you now, do
2 you recall seeing that information when you looked at the
3 evidence --

4 A. I do not recall.

5 Q. You do not recall?

6 A. I do not recall.

7 Q. You do know that Bella is the name of one of Jahar's
8 sisters, right?

9 A. I do not.

01:13 10 Q. So you know a friend of his from UMass Dartmouth is
11 Giovanni Norgill, right? You said that last week?

12 A. I knew that from -- yes.

13 Q. You know that Dias Kadyrbayev is a friend of his, right?

14 A. I do know they were defendants in another matter, yes.

15 Q. You know that Katherine Tsarnaeva is Tamerlan's wife,
16 right? You said that last week?

17 A. Yes.

18 Q. But you don't know that Jahar had a sister named Bella?

19 A. The part of the investigation that I was responsible for
01:13 20 had no dealings with other siblings.

21 Q. That name never came up in your work with people under
22 your supervision about the electronic devices in the case?

23 MR. CHAKRAVARTY: Objection, your Honor.

24 THE COURT: You may answer it.

25 A. It did not.

1 Q. Now, I'm going to go to Exhibit 1142-01, which is the
2 selected internet history from the VAIIO. I'm going to zoom in
3 on sort of part of it here, just the beginning.

4 Now, Exhibit 1142, this -- whoever created this called
5 Key Internet History it's just one page, right? It's one page
6 pulled out of the internet history?

7 A. It is one page pulled out of the -- generated from the
8 Internet Evidence Finder.

9 Q. Okay. And so I think you said there was something like
01:14 10 30,000 internet history entries on the Sony, right?

11 A. I believe so, yes.

12 Q. And so this one-page selection is a very, very small part
13 of that, right?

14 A. Yes, less than 30,000, yes.

15 Q. Substantially less?

16 A. Yes.

17 Q. And this was a selection made not by you but by the
18 investigative team, right?

19 A. Yes.

01:15 20 Q. But in the process of verifying this, you went back for
21 each -- if I understood your testimony, you went back for each
22 of these line items and went to the internet history to confirm
23 it's there, right?

24 A. Went to the internet history -- we went to the Internet
25 Evidence Finder results.

1 Q. To confirm that everything in this spreadsheet is actually
2 there?

3 A. We went to the results of the internet finder -- Internet
4 Evidence Finder and -- yes, and confirmed that it was there.

5 Q. You've been saying "we" again. You said "we" a few times
6 last week. When you say "we," do you really mean I, or were
7 there multiple people doing it?

8 A. I was with John Petrozelli, the senior analyst.

9 Q. In verifying the spreadsheets line by line, you did that
01:15 10 together, is that fair to say?

11 A. Yes.

12 Q. But you personally participated in every aspect of it,
13 correct?

14 A. Absolutely, yes.

15 Q. Now, in the process of verifying these items, you
16 obviously saw the entirety of the internet history, correct?

17 A. These were subreports from the larger base, so we were
18 confirming only what was on these reports.

19 Q. But in order to confirm them, you had to go back to the
01:16 20 original, to the collective, right?

21 A. The 30,000 entries?

22 Q. Yes.

23 A. Yes.

24 Q. And so, in the process of doing that, you had occasion to
25 observe that the bulk of the internet history on the Sony was

1 activity on Facebook and VK, which is a Russian Facebook
2 equivalent, right?

3 A. I'm sorry. What --

4 Q. Is it fair to say that the course of seeing the entire
5 internet history --

6 A. Right.

7 Q. -- you could observe -- you did observe that the bulk of
8 the internet history on the Sony was Facebook activity and
9 VK.com activity, a Russian Facebook equivalent?

01:17 10 A. I'm not sure I can assess that sitting here. We went line
11 by line to determine and validate and verify that this stuff
12 was there. It was so voluminous, I couldn't tell you whether
13 it was a percentage or not.

14 Q. You didn't even notice in passing where most of the web
15 addresses were coming from on that giant collection?

16 A. We went to these entries to make sure that they were there
17 and existed. As far as assessing what else was there, as far
18 as a percentage in its totality, we did not.

19 Q. So you were narrowly focused on these entries, didn't even
01:17 20 notice anything else on the overall record you were reviewing?

21 A. Other than that there was other internet activity there,
22 yes.

23 Q. Wasn't of interest to you where the predominant amount of
24 internet activity was?

25 A. It was of interest to me to make sure this information

1 existed in those reports.

2 Q. That's your sole and narrow focus; is this information
3 there? That's it?

4 A. That was my job, yes.

5 Q. In the course of your investigation earlier, in dealing
6 with the people under your supervision who reviewed the Sony
7 over the course of two years, did that topic ever come up?

8 A. Not specifically, no.

9 Q. Never had a discussion inside the FBI CART team about the
01:18 10 nature of the Sony's internet activity?

11 A. Not specifically the internet activity.

12 Q. Now, you're aware, correct, that the FBI did an analysis
13 of the search history, the internet search history, on the
14 Sony, right?

15 A. Some of those entries are included in these reports, yes.

16 Q. You are aware that the FBI did a separate analysis of the
17 search history on the Sony, correct?

18 A. What type of search history?

19 Q. Well, let me just put more of a point on it. The 53-page
01:18 20 report we were talking about before in front of you that
21 contains an analysis of the search history, correct?

22 A. Can you refer to what page that is, please?

23 Q. Sure, Page 46.

24 A. This looks like it's a collection of search terms.

25 Q. Right. So you testified that you're familiar with this

1 report, right?

2 A. In general, yes.

3 Q. You've seen it before, right?

4 A. Yes.

5 Q. Petrozelli and Nathans, the people who worked on it, are
6 people you work with, right?

7 A. Yes.

8 Q. And so you're aware that the FBI did an analysis of search
9 terms on the Sony that are indicative of his predominant
01:19 10 internet usage, right?

11 A. According to this report, yes.

12 Q. Well, you don't have any reason to think the report is
13 wrong, do you?

14 A. No.

15 Q. And it's fair to say that the top two terms in the
16 predominant search history are words that you might --

17 MR. CHAKRAVARTY: Objection.

18 Q. -- expect to see in the computer of an adolescent male?

19 THE COURT: Overrule.

01:19 20 A. Am I answering that question? Can you rephrase that
21 again, please?

22 Q. The top two search terms are terms you would not be
23 surprised to find in the computer of adolescent male, fair to
24 say?

25 A. I'm not going to say that. I'm not an adolescent

1 psychologist, so I don't know whether or not an adolescent male
2 would be searching for those terms.

3 Q. Among the top 16 search terms identified in this
4 predominant usage chart is the single word "Chechnya," correct?

5 A. Yes.

6 Q. You're aware that the defendant's family, his paternal
7 side of the family, comes from Chechnya, correct?

8 A. I'm aware they are from Chechnya, yes.

9 Q. Also fair to say that, among these top 16 predominant
01:20 10 usage search terms, there is nothing about Islam or jihad?

11 MR. CHAKRAVARTY: Objection, your Honor.

12 THE COURT: Sustained.

13 Q. Now, I'm going to move on to Exhibit 1142-13.

14 A. Are we done with this report?

15 Q. For the moment. You can leave it on your desk if you'd
16 like.

17 This is 1142-13, selected user files from the VAIO,
18 correct?

19 A. Yes.

01:21 20 Q. And this is a report that's about four-and-a-half-pages
21 long, correct?

22 A. Yes.

23 Q. And this is, again, a list of files selected by somebody
24 on the investigative team, correct?

25 A. Yes.

1 Q. And in addition to the name and path of the file, if we go
2 back to the top of the spreadsheet, there are these two columns
3 here, "created in local time" and "file system record in local
4 time." Do you see that?

5 A. Yes.

6 Q. It's correct, isn't it, that Windows maintains a variety
7 of date-and-time information about files?

8 A. Yes.

9 Q. And that's -- there are certain descriptors or categories
01:22 10 of each of the pieces of information Windows maintains,
11 correct? One of them is "created"?

12 A. That's one of them, yes.

13 Q. "Modified"?

14 A. Yes.

15 Q. "Accessed"?

16 A. Yup.

17 Q. Something called "MFT entry modified," the "master file
18 table entry modified"?

19 A. The "born on" date would be more appropriate.

01:22 20 Q. You're familiar with those categories of information that
21 Windows holds about files, right?

22 A. Yes.

23 Q. And fair to say the meaning and significance of that data
24 is not always intuitive or obvious?

25 A. It is to the forensic specialist but not to sort of the

1 general computer population.

2 Q. Okay. Now, the created date is, generally speaking, the
3 date or time that the file appeared on the computer or device
4 where the file is located, correct?

5 A. Depending on what versions of Windows, yes.

6 Q. And for the purposes of your chart here, which of the
7 Windows time categories is file system record date in local
8 time?

9 A. This was adjusted -- these were adjusted numbers for local
01:23 10 time. As we had talked about, some of them were --

11 Q. I want to break that down into two pieces. Put aside the
12 time zone issue for a moment. What is meant by "file system
13 record date"? That's not a term that shows up in Windows
14 itself, right? So what do you mean?

15 A. That was an adjusted time for the time record, for the
16 Zulu time.

17 Q. But both of these are local time, right? We have "created
18 in local time," and we have "file system record date in local
19 time," right? Both are local time?

01:24 20 A. If you could pull the thing out so I can see it in its
21 entirety, please?

22 Q. Sure .

23 A. So the created local time -- sorry. What was your
24 question again?

25 Q. I'm asking you about "file system record date in local

1 time." What is that? Which of the Windows time artifacts does
2 that come from?

3 A. That is not a Windows time artifact. That was, like, with
4 some of the -- several of the other spreadsheets, that was
5 added by the analyst.

6 Q. So added by the analyst on what basis?

7 A. I didn't create the report. We determined that this is a
8 user -- selected user file from the main directory listing
9 report.

01:24 10 Q. Sir, you didn't create the report, but you verified the
11 report, right?

12 A. I verified, yes, that the web cam media was created in
13 local time, yes.

14 Q. How did you verify file system record date in local time
15 if you can't tell me which Windows artifact it is?

16 A. When I sat with the analysts, we went over line by line to
17 determine that the web cam media entry was in the directory
18 listing, the main directory listing.

19 Q. So are you saying you did not verify the time entries in
01:25 20 the spreadsheets?

21 A. I did not create the file record time category.

22 Q. You didn't create the category. I'm asking if you
23 verified it.

24 A. I verified with the person who created the report, yes.

25 Q. So what? They just told you it was correct?

1 A. I sat with the analyst, and we went through the main
2 directory listing of what you're looking at here to determine
3 that the created local time. And we sat with the -- the senior
4 analyst that made this report, and we went over it line by line
5 together, yes.

6 Q. I understand you verified created in local time with the
7 analyst. What is file system record date in local time?

8 A. That's something that the analyst -- that is a --
9 something that the analyst made.

01:26 10 Q. Based on what?

11 A. I don't have that information in front of me.

12 Q. So when you sat with the analyst and verified the entries
13 line by line, the question didn't come up: What is that?

14 A. There were over -- there were a number of different
15 documents. I don't recall specifically this particular
16 document.

17 Q. Well, apart from this particular document, these two
18 categories, right, "created in local time" and "file system
19 record date in local time," those are all over multiple
01:26 20 spreadsheets that you put into evidence with Mr. Chakravarty
21 last week, right?

22 A. Yes.

23 Q. So what is "file system record date in local time"?

24 A. I would have to go back and ask the analyst. We went line
25 by line to determine that the "created in local time" came from

1 the master file list and that the path of the files were there
2 for selected user time.

3 Q. So bottom line is you can't answer that question sitting
4 here today, What is file system record date?

5 A. I don't have the information in front of me to answer that
6 question.

7 Q. You don't recall even knowing at the time you verified the
8 spreadsheet?

9 A. We went over multiple spreadsheets over a period of three
01:27 10 or four days.

11 Q. Right. But this category, file system record date on
12 multiple spreadsheets, you don't remember what that is?

13 A. I don't recall.

14 Q. Okay. So then, certainly, you would agree then, since you
15 don't know what it is, that the fact that the time the file was
16 created and the time in the second column doesn't necessarily
17 say anything about whether the file was ever opened?

18 A. The created in local time was when it was created on that
19 --

01:27 20 Q. Right. So it's simply the fact that there's another
21 column with a different time on it that's later doesn't mean
22 the file was opened on that date because you don't even know
23 what that column means, right?

24 A. I would have to get the information from the analyst to
25 verify what that information is.

1 Q. It's at least fair to say that from this spreadsheet one
2 cannot infer that the fact that there are two different times
3 means this file was ever opened?

4 A. Exactly, or that it was not or that it was.

5 Q. Right. There's no information?

6 A. I don't have the information to determine that from this
7 particular spreadsheet.

8 Q. Now, I want to go to a particular file on here. I'm going
9 to expand it just by way of example. See this

01:28 10 fundamentalconcepts.pdf? See that?

11 A. Uh-huh.

12 Q. Created date, September 1, 2004?

13 A. Okay.

14 Q. That can't be right, can it?

15 A. Well, it could be. If it was created on another device,
16 that creation date could have been carried over when it was
17 populated from a removable media device.

18 Q. I thought you just told us a few minutes ago that all of
19 the created dates here are the dates the file was created on

01:28 20 the Sony?

21 A. It's when the file was born with the exception of when
22 something is done with removable media or downloaded from the
23 internet.

24 Q. So your belief then is that this created in local time
25 simply reflects when Fundamental Concepts might have been

1 created on some other device?

2 A. I don't have that information in front of me, but I would
3 -- yes, based on the information here.

4 Q. Well, let's try comparing then to see what created certain
5 looks like on the master file table for this item. If I can
6 open Exhibit 1142-151, Page 1872, can you see that on your
7 screen, fundamentalconcepts.pdf, and then the highlighted
8 creation date?

9 A. Barely but -- can you zoom it out?

01:30 10 Q. You know, I think I might have to actually open it in PDF
11 to do that. But one moment. Go to Page 1872; zoom. Here we
12 have Fundamental Concepts. I thought I had it. Sorry.
13 Fundamental Concepts, going across, across, across. Creation
14 date of October 10, 2011.

15 A. Can you possibly bring up the other one, also, please, in
16 the other report?

17 Q. Which one?

18 A. The original report we were --

19 Q. Yes, absolutely. So we will go back to that, which is
01:32 20 1142-13, Fundamental Concepts, September 1, 2004.

21 A. Can you go back to the other report again, please?

22 Q. Sure.

23 A. Okay.

24 Q. So the created file in the master list, the 4,000-plus
25 page document, September 10, 2011, for Fundamental Concepts, on

1 your derivative -- or the FBI's derivative spreadsheet, it's
2 the 2004 date?

3 A. There were multiple different types of applications used.
4 This particular sheet that you're looking at was an X-Ways
5 forensic file listing export, and that report could have been
6 made from AD Labs.

7 Q. So there's -- a different software might give a different
8 answer to a question to when a file was created on a computer?

9 A. Potentially, yes.

01:33 10 Q. What did you actually use when you verified the derivative
11 exhibit, the one that showed 2004? How did you verify that
12 date?

13 A. We used multiple data sets. One of them was we wanted to
14 make sure that this entry -- that the file actually existed on
15 the computer and that the entry was in the file listing.

16 Q. So you're saying you didn't verify the dates?

17 A. We didn't -- the information that we used at the time was
18 -- could have been from the AD Labs. Could have been from the
19 other product.

01:34 20 Q. So different products, you're saying, can give a different
21 answer about when a file was created on a computer?

22 A. It's possible.

23 Q. Sitting here today, you don't know which is correct?

24 A. I don't know which is correct; I do not.

25 Q. It sort of stands to reason, though, that a computer where

1 Windows was installed in 2011 couldn't have had a file created
2 on it in 2004, right?

3 A. Not unless that file was created someplace else, either
4 the internet or a removable media and then copies to that
5 device.

6 Q. But it still has a creation date, a date it was born on
7 the device where it was --

8 A. Would be the born-on date, yes.

9 Q. As I understood it, the derivative spreadsheet was
01:34 10 supposed to show, as I understood it, the date the file was
11 born on the Sony, right?

12 A. I'm sorry. Can you ask that question again?

13 Q. As I understood the purpose of the derivative spreadsheet
14 and your description of it a few minutes ago, that column is
15 supposed to tell us when the file was born on that computer,
16 right?

17 A. It was created in local time on that computer, yes. I'm
18 sorry, when the file was created in local time.

19 Q. On that computer or not?

01:35 20 A. Not necessarily on that computer.

21 Q. Not necessarily, right?

22 A. Depending on how that file -- where that file was
23 originally created from.

24 Q. So how do you know the difference? How can we interpret
25 any one of these items what it means? Are you able to do that

1 sitting here today?

2 A. Not sitting here today, no. We would need further
3 analysis on the file. The file does exist on the computer, and
4 the file entry does exist on the directory listing.

5 Q. But you're not confident about the dates in these
6 spreadsheets?

7 A. I don't think any forensic person would ever be a hundred
8 percent confident in dates and times generated by the operating
9 systems.

01:35 10 Q. I'm still curious. What happened when you tried to verify
11 this date? You must not have compared it to the 4,000-page
12 list that's in the exhibit because that has a different date,
13 right?

14 A. Must be, yes.

15 Q. But sitting here today, you don't know what device output
16 or what software output you used to make the verification?

17 A. Not for this particular spreadsheet, no.

18 Q. For any of the spreadsheets, can you say where the data
19 came from?

01:36 20 A. We had -- there were hundreds of files, and there were at
21 least 50 or 60 spreadsheets that we were verifying.

22 Q. So you didn't have a standard procedure to verify the
23 dates and times in the spreadsheets?

24 A. There was no standard procedure because it was a bunch of
25 different types of devices. It was cell phones, thumb drives,

1 hard drives.

2 Q. Let's just stick with computers. Did you have a standard
3 operating procedure to verify dates and times for lists of
4 files from computers?

5 A. There was no standard procedure, no.

6 Q. Just to -- this is not an isolated problem, fair to say?

7 A. I can't determine that with the information in front of
8 me.

9 Q. Well, let's take a look at a couple more examples at
01:37 10 least. I'm going to go to Page -- well, there's the next one
11 right here, fundamentalconcepts.pdf, February 14, 2006. That's
12 also a date that's like -- something like five years before the
13 Windows install on the Sony, right?

14 A. If the -- the 2011 date, when that particular install of
15 Windows, yes.

16 Q. So certainly would raise a question in your mind: How is
17 it that a file could be created on the Sony in 2006, right?

18 A. That file could have been created on the internet in 2006
19 and then put on the Sony --

01:37 20 Q. Again, it's just --

21 A. -- in 2011.

22 Q. It's just an example of that date doesn't necessarily
23 reflect the creation date on the Sony?

24 A. Depending on what type of file it is, where that file was
25 created, it may not reflect when it was created on the Sony.

1 Q. Just as a point of comparison, going to the master file
2 table for that file, the Exhibit 1142-151, Page 150.

3 A. That's not the master file table, but it is a directory
4 listing.

5 Q. For purposes of the exhibit in this case, there was a
6 4,000-plus-page exhibit which you represented to be a complete
7 list of all the files on the Sony, right?

8 A. That's the complete list that the software product
9 produces, yes.

01:38 10 Q. And so if we go to that list and look for the
11 fivegrounrules.pdf document, we again see a September 2011
12 creation date rather than a 2006 date, right?

13 A. Can you blow that up a little, please?

14 Q. Go to Page 150. Here we go. Five Ground Rules. Scroll
15 across. We get a date September 10, 2011, again, right?

16 A. Yes.

17 Q. So the created data in this file listing doesn't match the
18 created data on the FBI's derivative exhibit again, right?

19 A. That data is different, yes.

01:39 20 Q. So fair to say it would not be appropriate to rely on the
21 derivative exhibit, which is 1142-13, to figure out what date a
22 file might have appeared on the Sony VAIO?

23 A. We'd rely on -- yes. I would rely on the master file -- I
24 mean, the complete list.

25 Q. Okay. Now, if I'm hearing you, you're saying the complete

1 list is correct?

2 A. The complete list is generated by the approved software
3 tool.

4 Q. So the derivative list was generated by some unapproved
5 software tool?

6 A. No. The generated list was created by the senior analyst
7 and the examiner that worked with him.

8 Q. Out of the air or they used some tool?

9 A. They used multiple different pieces of information.

01:40 10 That's why it's called derivative.

11 Q. Okay. They used an unapproved tool to create the
12 derivative exhibit?

13 A. I'm not sure specifically what tool -- I mean, they used
14 -- it's an Excel spreadsheet, but the data came from multiple
15 different data sets as processed by the evidence -- or the
16 evidence was processed by.

17 Q. You don't know what tool was used to generate the data on
18 the derivative spreadsheet, one, right?

19 A. I'm not sure a tool was used to generate the derivative
01:40 20 spreadsheet. The information came from multiple places to get
21 to the derivative spreadsheet.

22 Q. Wherever it came from, you don't know where it came from?

23 A. I don't have it in front of me to make that determination.

24 Q. Okay. And the authoritative, I guess, you're saying,
25 table, you didn't -- in the process of verifying the derivative

1 spreadsheet, you didn't check that data against the
2 authoritative table?

3 A. That file creation date could have been from AD Labs.
4 Again, we used multiple tools for this to create these
5 derivative spreadsheets.

6 Q. So the tools conflict with each other?

7 A. Possibly, yeah.

8 Q. So --

9 A. Depending on --

01:41 10 Q. Where does that leave the bottom line? What's your -- as
11 an expert computer forensic examiner on the witness stand
12 today, which set of data can we rely on? The complete list
13 we've got up on the screen here showing September 11th or the
14 derivative list showing a date in 2006? Can we rely on either
15 of them?

16 A. It depends on what you're trying to determine.

17 Q. If you're trying to determine when a file will appear or
18 was created on the Sony VAIO, what would you rely on?

19 A. I would rely on the master file list.

01:42 20 Q. Which is the thing that's on the screen right now?

21 A. The thing that's on the screen right now, yes.

22 Q. So if that's what the reliable source is, why didn't you
23 verify the derivative evidence against the reliable source?

24 A. That derivative evidence could have been when that file
25 was created in another location.

1 Q. But if that's not what the exhibit is supposed to be
2 portraying, why wouldn't you correct it?

3 A. I'm not sure that that's accurate. If you pull it up, it
4 doesn't say created on the 1R6. It just says "file created."

5 Q. The spreadsheet doesn't say anything about what created
6 means. That's why I asked you initially. If I understood you
7 correctly, your initial response was created means the date it
8 was born on the Sony.

9 A. No, I did not say that.

01:42 10 Q. Okay. At least we're clear now. Created date on those
11 derivative listings is not a reliable way to assess when a file
12 appeared on the Sony?

13 A. Creation date was when that file was created, not -- it
14 would not be indicative of when it potentially could have been
15 created on the Sony, yes.

16 Q. It would not be indicative of when it potentially could
17 have been created on the Sony, okay.

18 Now, I'm going to return to discussing a few more
19 big-picture things about some of these devices. I'm going to
01:43 20 go back to your list, 1577 -- I'm sorry, 1557. I'm going to
21 talk about the Samsung a little bit here again, the 1W3, D385.
22 Do you see that?

23 A. Yes.

24 Q. Now, you testified last week that the FBI concluded that
25 this was, in fact, Tamerlan's laptop computer, correct?

1 A. I testified that we were aware that it was Tamerlan's
2 computer, yes.

3 Q. And you know that both from your understanding of what was
4 found on the computer itself and other investigative
5 information, correct?

6 A. Yeah. I did a cursory -- as a part of this process, did a
7 cursory look of D385.

8 Q. You're also aware of other investigative information that
9 ties the computer to Tamerlan, right?

01:44 10 A. I'm not -- I don't know what specifically you're referring
11 to but in the general course of the investigation, yes.

12 Q. Well, you are aware, for example, it was found in a
13 computer bag with his high school diploma, right?

14 A. I'm aware that it was found in a computer bag. I don't
15 know what the rest of the contents of the bag were, but I am
16 aware that it was a computer bag.

17 Q. You're aware that the computer was connected to the
18 internet in Russia multiple times between January and July of
19 2012 when Tamerlan was there, right?

01:44 20 A. I don't have that information in front of me to determine
21 that.

22 Q. Well, is that something you ever became aware of in your
23 work on this investigation?

24 A. Not me personally, no.

25 Q. You never became aware of information that Tamerlan

1 traveled to Russia from January to July of 2012?

2 MR. CHAKRAVARTY: Objection, your Honor.

3 THE COURT: Overruled. You may have it.

4 A. I'm not sure that that's what you asked me. I think you
5 asked me if whether or not the computer was connected to the
6 internet when he was traveling in Russia.

7 Q. Let's take it step by step. Are you aware of information
8 that Tamerlan Tsarnaev traveled to Russia between January 21
9 and July 17 of 2012?

01:45 10 A. I'm aware that Tamerlan traveled to Russia, yes.

11 Q. In roughly that time frame?

12 A. In roughly that time frame, yes.

13 Q. And are you aware that there are digital artifacts on the
14 Samsung showing that that computer was connected to the
15 internet in Russia during that time frame?

16 A. I do not have that information in front of me, nor am I
17 aware of that.

18 Q. You never were aware of that?

19 A. I was never aware of that.

01:45 20 Q. Are you aware that the web history on the Samsung includes
21 information about Tamerlan's log-in to multiple accounts
22 associated with him?

23 MR. CHAKRAVARTY: Objection, your Honor.

24 THE COURT: Sustained.

25 Q. You said you did a cursory review of the Samsung in

1 connection with preparing for your testimony here, correct?

2 A. I did a cursory review of the computer because it was
3 listed on this evidence sheet, yes.

4 Q. And during the course of the last two years, you
5 supervised individuals who worked on the analysis of this
6 computer, correct?

7 A. That's correct.

8 Q. And you over that time became aware of things that they
9 were doing and finding, correct?

01:46 10 A. I'm aware of what they were doing in general, yes, as a
11 supervisor.

12 Q. Particular findings were never brought to your attention?

13 A. Specific findings, no.

14 Q. Reports that they wrote -- that the people under your
15 supervision wrote about the Samsung were never brought to your
16 attention?

17 A. Other than through the general approval process, I don't
18 have the specifics of the reports in front of me.

19 Q. Well, again, part of the general approval process, you're
01:47 20 the supervisor. You would review reports written by the people
21 you supervise, correct?

22 A. Yes.

23 Q. That would include reports that people you supervise wrote
24 about the Samsung, correct?

25 A. Reports that -- any reports that they would write, yes.

1 Q. Okay. And that's a normal kind of thing that you would
2 rely on in the course of your work as a supervisor, correct?

3 A. Rely on for what, sir?

4 Q. Rely on for performing your duties.

5 A. Rely on -- I think the relationship as a supervisor of the
6 forensic team is a little different than normal. The forensic
7 person is actually assigned to the investigation, so any
8 investigation subject matter would be decided or run by the
9 case agents. I would make sure -- mine is more day-to-day
01:47 10 operations. Mine is: Did you come in to work on time? Is
11 your -- you know, type of information.

12 Q. You still have occasion to read the reports that the
13 analysts write about the Samsung, correct?

14 A. The forensic examiners write, yes, not the analysts.

15 Q. The forensic analysts write reports about their findings
16 to pass them along to others in the FBI and the prosecution
17 team to know what the evidence means, correct?

18 A. Their technical reports, if they worked for me, would go
19 through me, yes.

01:48 20 Q. They go through you, and they go from you to investigating
21 agents, case agents, prosecutors, and the like, correct?
22 That's the reason they exist?

23 A. They would go to the case file. I'm not sure where they
24 would be distributed from there.

25 Q. So you don't know whether the reports that your

1 subordinates write about important pieces of digital evidence
2 ever see the light of day?

3 A. I approve them for accuracy and make -- and then once
4 they're uploaded to the file, within the case file, I'm -- I
5 don't make the investigative decisions on any particular case.

6 Q. Well, you did tell Mr. Chakravarty, right, that you're
7 aware from your exposure to the Samsung over the last two years
8 that a lot of similar kinds of files to those on the Sony were
9 on the Samsung, correct?

01:49 10 A. Actually, I think I said, in the course of reviewing the
11 evidence and validating, verifying for the trial, I am aware of
12 a cursory look of D385.

13 Q. Okay. So you became aware, if you weren't already aware,
14 that a lot of the same kinds of material is also on the
15 Samsung, right?

16 A. Yes.

17 Q. And you also talked about the fact that there is
18 encryption software on the Samsung, correct?

19 A. I talked about I was aware that there was a TrueCrypt
01:49 20 volume on the drive, yes.

21 Q. And TrueCrypt is a very powerful piece of encryption
22 software, fair to say?

23 A. I'm not sure I would characterize it as powerful, but it's
24 a freeware product that anybody can download to encrypt data.

25 Q. Well, if one has a good password in TrueCrypt, it's pretty

1 hard, even for very sophisticated tools, to get inside, right?

2 A. If the software is configured properly and the password is
3 strong enough, it would be difficult, yes.

4 Q. Even for the most sophisticated U.S. Government tools,
5 very difficult, right?

6 A. For the purposes of this, yes.

7 Q. But you understand, because you supervised the people who
8 did it, that it was possible to get into Tamerlan's encrypted
9 volumes because he had a bad password, right?

01:50 10 A. No, I'm not aware of that.

11 Q. You're not away the password was Allahu Akbar, with a
12 number after it?

13 A. I'm not.

14 Q. You don't know how FBI analysts managed to find out what
15 was in the encrypted volumes on Tamerlan's computer?

16 A. I'm aware that they are able to access that. I'm not
17 aware how they were able to get the password.

18 Q. Now, fair to say that the use of encryption is considered
19 something -- in investigative terms, it's considered tradecraft
01:50 20 when it's used by terrorists or criminals, right?

21 A. I'm not sure I can make that assessment.

22 Q. As a trained FBI agent, that's not the kind of assessment
23 you would make?

24 A. What's that?

25 Q. Well, what constitutes tradecraft for criminals or

1 terrorists.

2 A. I mean, that's a very easy question with a very long
3 answer. Tradecraft can be a number of different things.

4 Q. Is it fair to say that the use of encryption by a
5 terrorism suspect is an example of tradecraft?

6 A. I'm not aware of any terrorism suspects that have used
7 encryption, so I'm not sure I can answer that question.

8 Q. Well, are you aware that *Inspire Magazine*, one of the ones
9 that you talked about with Mr. Chakravarty last week,
01:51 10 recommends that people who want to engage in terrorism should
11 use encryption?

12 A. I'm not aware of that, no.

13 Q. I'm just going to pull up a copy of Exhibit 1475-22.

14 MR. CHAKRAVARTY: Objection, your Honor. This is not
15 impeachment.

16 THE COURT: Sustained.

17 If this is a pausing to go to a new thing, it's 11:00.
18 We'll take the morning recess.

19 MR. FICK: Sure. Thank you.

01:51 20 (Recess taken at 11:02 a.m.)

21 THE CLERK: All rise for the Court and the jury.

22 (The Court and jury enter the courtroom at 11:28 a.m.)

23 THE CLERK: Be seated.

24 THE COURT: Mr. Fick?

25 MR. FICK: Yes, your Honor. Thank you.

1 BY MR. FICK:

2 Q. So good morning again, Agent Swindon.

3 A. Good morning.

4 Q. Just a few more questions about your knowledge of the
5 Samsung laptop here among the devices seized, Tamerlan's
6 laptop. We talked a bit about TrueCrypt a few minutes ago. Do
7 you remember that? That's the encryption software?

8 A. Yes.

9 Q. It's true, isn't it that TrueCrypt is not among the
02:19 10 software on the Sony VAIO?

11 A. I'm not aware of TrueCrypt being on the Sony VAIO, no.

12 Q. Well, and, in fact, you introduced last week an exhibit
13 listing all of the software on the Sony VAIO, correct?

14 A. Yes.

15 Q. And that list did not include TrueCrypt, correct?

16 A. It did not include TrueCrypt, yes.

17 Q. So it's not just that you're not aware of TrueCrypt being
18 on the Sony VAIO, in fact, TrueCrypt is not on the Sony VAIO?

19 A. TrueCrypt is not on the Sony VAIO.

02:19 20 Q. Thank you.

21 Now, in the course of your cursory review of the
22 Samsung, or previously in your work as the supervisor of the
23 CART team, did you ever have occasion to see what the desktop
24 of the Samsung looked like, the wallpaper, the background, all
25 of that?

1 A. On D385.

2 Q. On the Samsung, Tamerlan's laptop?

3 A. No.

4 Q. You never saw what the desktop looked like?

5 A. I never saw what the desktop looked like.

6 Q. Did your cursory review of the Samsung include the
7 Internet history of the Samsung?

8 MR. CHAKRAVARTY: Objection, your Honor, to going
9 through each of the portions of --

02:20 10 THE COURT: Yes, sustained.

11 MR. FICK: I'm sorry?

12 THE COURT: Sustained.

13 MR. FICK: I'm not sure what the objection was.

14 THE COURT: I take it as relevance.

15 MR. FICK: May we approach?

16 THE COURT: All right.

17 (Discussion at sidebar and out of the hearing of the
18 jury:)

19 MR. FICK: So two things: I would suggest, first of
02:20 20 all, the government opened the door to at least probe the
21 witness's knowledge of the Samsung by itself, the prosecution,
22 asking questions about what he knew about the Samsung.

23 Second, this is going nowhere near mitigation
24 evidence. This is strictly evidence about the crime itself and
25 the potential motives of the crime.

1 THE COURT: How?

2 MR. FICK: Information about the contents of
3 Tamerlan's laptop and how that reflects on his state of mind.
4 Potential preparation of the crime is evidence of the crime, of
5 the motive.

6 MR. CHAKRAVARTY: I understand Mr. Fick saying it goes
7 to Tamerlan's state of mind, evidence that might be on his
8 computer that this witness, the computer forensic specialist
9 who didn't even verify that information would somehow be
02:21 10 capturing Tamerlan -- the coconspirator's state of mind when
11 there's no evidence that this defendant had any access, knew
12 what was on there or even that some of these questions about
13 where the surface tree was and some of those things. I don't
14 think the defendant's argument is that the defendant
15 participated in that; in fact, it's just the opposite. They're
16 suggesting that Tamerlan was doing a bunch of other things that
17 the defendant was not. All that is outside this witness's
18 basis of knowledge with regards to the device as well as it's
19 not relevant to the conspiracy charge.

02:22 20 MR. FICK: I'm asking the witness questions about what
21 he knows about what's on the computer.

22 THE COURT: And so what issue does that go to?

23 MR. FICK: It goes to Tamerlan's role in the
24 conspiracy, among other things. I mean, it's evidence of --

25 THE COURT: Well, that sounds inculpatory; in other

1 words, it goes to prove the offense is a conspiracy.

2 MR. FICK: Well, there's no requirement, I would
3 suggest, that the defense is only ever allowed to elicit
4 exculpatory evidence. I mean, if it's evidence of the crime,
5 if it's evidence of a motive of a coconspirator, it is relevant
6 to the case, and simply the fact that we happen to be the
7 defense of one of the conspirators does not mean that we can't
8 elicit evidence about the offense to put in the context and to
9 correct the misimpression that the government's presentation is
02:22 10 making.

11 MR. CHAKRAVARTY: Right there it's motive evidence.
12 The motive evidence is to the extent that the government is
13 offering to show that was not the defendant's motive is one
14 thing, but to show alternative motives or in this case that the
15 motive was even greater for the coconspirator seems to be a
16 relative culpability issue and has nothing to do with --

17 MR. FICK: Relative culpability matters in terms of
18 correcting misimpressions that the government's presentation of
19 the case is creating at this stage of the case. It's evidence
02:23 20 about the offense, it's evidence about the alleged offender
21 that is specifically tied to not only the motive for the crime
22 but what he did in terms of committing the crimes.

23 THE COURT: No. Excluded.

24 (In open court:)

25 BY MR. FICK:

1 Q. So, Agent Swindon, I'd like to talk a little bit now about
2 how one traces the history of when a USB device was attached to
3 a computer, okay?

4 A. Okay.

5 Q. Okay? So you've heard of something called SetupAPI is a
6 registry artifact in Windows. You're aware of that?

7 A. I have to look at the registry report, but I believe it is
8 one of the categories in a registry report, yes.

9 Q. Right. And that captures information about when a USB
02:24 10 memory device is plugged into a computer for the first time,
11 correct?

12 A. I'm not sure what the chronological of events are, but I
13 do know there is information stored there, yes.

14 Q. SetupAPI stores information about USB device attachments
15 into a computer?

16 A. I would have to test that. I don't have that information
17 in front of me.

18 Q. Well, I'm not talking about a specific computer, I'm
19 talking about the methodology of doing the investigation now,
02:24 20 okay? So as a general matter, SetupAPI contains date and time
21 information about when a device is first plugged into a
22 computer, correct?

23 A. You have to pull that up so I can see a registry report to
24 see what you're referring to.

25 Q. So you don't know what SetupAPI is sitting here today?

1 A. I'm familiar with it. It's an entry in the USB report
2 that comes from the registry, yes.

3 Q. And so you're not aware that that records the first time a
4 USB device is attached?

5 A. It records when it is attached. I'd have to see the
6 report to know that that is the first time that was in that.

7 Q. The registry, apart from SetupAPI, also contains other
8 information about incident -- incidents when a USB is attached,
9 correct?

02:25 10 A. Yes, it does.

11 Q. Okay. Now, these two sources I've mentioned, the SetupAPI
12 and other data in the registry, actually record the event of
13 the attachment, right?

14 A. It would be the physical attachment or the physical
15 putting of the USB drive into that particular machine.

16 Q. And in addition to those pieces of data, there's -- there
17 are also artifacts called shortcuts and links that I think you
18 testified about with Mr. Chakravarty, right?

19 A. Yes.

02:25 20 Q. Okay. And shortcuts and links and jump lists contain
21 information about files that a user may have accessed on a USB
22 device, right?

23 A. Among other things, but yes.

24 Q. Okay. So those record information about the files
25 themselves, not the event of the USB connecting, correct?

1 A. It could be the same event. But, yes, it does capture the
2 file information.

3 Q. So in other words, you might be able to infer something
4 about when a USB was attached from the jump list or link
5 information but that's -- the jump list or link information
6 itself records information about the file on the USB storage
7 device, right?

8 A. Right. So just for clarification, the registry contains
9 the information about the hardware and the connection of when
02:26 10 that piece of hardware went into that particular computer as
11 opposed to the link file is going to have information regarding
12 a file or files or folder that was accessed on that removable
13 drive.

14 Q. Right. So those are -- they're related but different
15 things, right?

16 A. Yes.

17 Q. Okay. So I'm going to pull up Exhibit 1142-02 which is
18 the exhibit called "External Device Access on the Sony." You
19 remember this spreadsheet that you talked about with
02:27 20 Mr. Chakravarty, right?

21 A. I do, yes.

22 Q. Okay. And this spreadsheet is based on jump list and
23 shortcut data about files that were viewed on the Sony that
24 were located on external devices, correct?

25 A. These are the information from the jump list records that

1 existed on the computer, yes.

2 Q. Okay. Jump list and shortcut records?

3 A. Yes.

4 Q. Okay. So this is not a listing of the device attachment
5 registry information?

6 A. It includes some of the same information but it is not the
7 registry report.

8 Q. It's not the registry report about the event of the device
9 attachment, it's information about the files that were viewed
02:27 10 on the external devices?

11 A. Yes.

12 Q. Okay. Now, the creation date for each of these entries is
13 the date the file was created on the external device, correct,
14 because these are jump lists and links, right?

15 A. I believe this might be the creation date of the actual
16 link file. Let's see. 1B shortcut.

17 Q. Do you know?

18 A. Can you give me a minute because this is the only -- this
19 is a -- a derivative report does not include all the

02:28 20 information. So I would need to see the file, the information
21 about the file, and then also the information about the
22 Kingston thumb drive and the registry to determine that.

23 Q. Well, this is a spreadsheet that you reviewed and deemed
24 to be accurate enough to include in an exhibit, correct?

25 A. Yes.

1 Q. So sitting here today, you don't know what the creation
2 date column refers to?

3 A. I would need the other two pieces of information that we
4 verified this with to determine that.

5 Q. Sitting here today you don't remember what those other two
6 pieces of information were?

7 A. We verified hundreds of pieces of information on various
8 spreadsheets.

9 Q. Okay. So sitting here you cannot tell me, then, whether
02:29 10 this is the creation date of the file on the thumb drive or
11 whether it's the date the thumb drive was inserted in the
12 computer?

13 A. Not without the supporting information.

14 Q. You just don't know?

15 A. Not without the supporting information.

16 Q. Okay. Now, this Patriot thumb drive here, I believe you
17 talked about that with Mr. Chakravarty, the serial number
18 reflected there, that's not the same as the Patriot thumb drive
19 that was recovered in the investigation and was included as an
02:29 20 exhibit, correct?

21 A. This is the -- you're talking about the volume serial
22 number?

23 Q. Right.

24 A. Yes, that is not the Patriot that was --

25 Q. And, in fact, this Patriot thumb drive with this volume

1 serial number was never recovered in the investigation, was it?

2 A. I don't have it, no.

3 Q. You're not aware of it being recovered?

4 A. I'm not aware of it being recovered.

5 Q. Now, do you know whether the FBI ever traced the artifacts
6 from this missing Patriot across all of the electronic devices
7 in the case?

8 A. I'm not sure I understand the question.

9 Q. Well, for example, what we have here on this chart
02:30 10 reflected in the first line is a data artifact taken from the
11 Sony about this particular Patriot thumb drive at a particular
12 point in time, right?

13 A. Yes.

14 Q. At some point in time, it was attached to the Sony and
15 this file on the Patriot thumb drive was viewed from the Sony,
16 right?

17 A. Yes.

18 Q. Okay. Now, did the FBI, to your knowledge, do any
19 investigation of whether this Patriot thumb drive, the missing
02:30 20 Patriot, was attached to other devices seized in the case?

21 A. I believe that there was an analysis done on that, yes.

22 Q. And was any kind of writing produced from that analysis?

23 A. I don't have access to that report.

24 Q. Do you know whether --

25 A. Or a report.

1 I don't know.

2 Q. Now, another one of the devices you talked about was the
3 Hewlett Packard desktop computer seized from 410 Norfolk
4 Street, the Tsarnaev family apartment. You remember that?

5 A. If you could bring it up to reference it, yes.

6 Q. Of course. I'm bringing back up 1557. The second line
7 here, 2R14, HP Pavilion, 410 Norfolk, that's a desktop computer
8 seized from 410 Norfolk Street, the Tsarnaev family apartment
9 in Cambridge, correct?

02:31 10 A. It was seized from 410 Norfolk, yes.

11 Q. Okay. And I think you testified on direct with
12 Mr. Chakravarty last week that you acknowledge -- the FBI
13 acknowledges that that computer was used by many people, right?

14 A. I believe people -- yeah, many people had access to that
15 computer, yes.

16 Q. A large number of Tsarnaev family members at various times
17 lived in that apartment, right?

18 A. I don't know. "Large" isn't a number. I'm not sure that
19 we were able to determine how many, whether small or large, who
02:32 20 had access to that computer.

21 Q. Well, you testified that you're aware of Tamerlan's wife
22 Katherine, who she is, right?

23 A. Yes.

24 Q. You heard the name, Jahar's father, Anzor?

25 A. Only from the computer username.

1 Q. You have no other knowledge of his father's name being
2 Anzor from the investigation?

3 A. I don't. I don't.

4 Q. Ever heard of his mother, Zubeidat?

5 A. I didn't have anything to do with his parents in this
6 investigation.

7 Q. So you know a number of people had access to the computer
8 at 410 Norfolk Street, this computer, but you don't know who
9 that might have been?

02:32 10 A. Not from the information in front of me, I can't determine
11 that, no.

12 Q. Well, apart from the information in front of you, from
13 your knowledge of the investigation, being a supervisor of the
14 CART team for two years -- for the last two years, do you know
15 anything about that?

16 A. Well, there are a number of pieces of information we would
17 use to determine access to a computer. We would use the
18 username that's associated with the computer. There would also
19 be pattern-of-life investigative information that we would use.
02:33 20 And then there would be email access, Skype access and
21 different types of maybe social media or access that we would
22 be able to determine who was using that computer.

23 Q. And when you say "pattern-of-life information," that's
24 information developed from the investigation about people who
25 may have had access to the computer, right?

1 A. It's more -- not specifically the computer but pattern of
2 life would be when somebody comes and goes either for work or
3 for school or --

4 Q. And your testimony was you do know that multiple people
5 had access to this computer, right?

6 A. Yes.

7 Q. But you don't know who -- you can't sort of list for me
8 who that might have been?

9 A. I can't specifically tell you who specifically had access
02:33 10 to that computer.

11 Q. Now, one of the artifacts that you looked at in Exhibit
12 1143-01, which I will pull up here -- these are exhibits in
13 evidence. I'm going to go to 1143, 1143-01. You testified
14 about an artifact in this derivative spreadsheet noting that on
15 January 1st at 2013 at 1:47 a.m. there was a log in to Yahoo
16 email for Jahar Tsarnaev. Do you see that?

17 A. I do see that, yes.

18 Q. Isn't it true that that is the one and only time there is
19 any record on this computer of that email account being
02:35 20 accessed?

21 A. I don't have that information in front of me.

22 Q. And apart from it being in front of you, do you know that
23 to be true or not?

24 A. I don't know that to be true.

25 Q. But you don't know that is not true?

1 A. I don't know it's not true.

2 Q. Sitting here today you can't say whether there was ever
3 another occasion on which Jahar Tsarnaev's email was accessed
4 from that computer?

5 A. I don't have the information in front of me to make that
6 determination.

7 Q. Did anyone ever ask you to make that determination?

8 A. No.

9 Q. And I'm going to also open 1143-05A, which is a derivative
02:36 10 spreadsheet -- sorry. One moment. Bear with me one moment.

11 (Pause.)

12 Q. So 1143-05A is the complete -- well, it's the lengthy
13 2,000 page or so long complete spreadsheet of the files from
14 the Hewlett-Packard computer at 410 Norfolk, correct?

15 A. It was generated, yes, by X-Ways Forensics, yes.

16 Q. And I just want to draw your attention to the date and
17 time information that's generated on this spreadsheet on this
18 computer. You see there's some -- some of the date and time
19 information has real, like, normal dates and times after it.
02:37 20 Do you see that? And then some of the same columns have
21 information that does not appear to be in the format of a date
22 or time?

23 A. Okay. That's what -- that's what this -- you're
24 displaying, yes.

25 Q. Well, that's what was submitted to the Court as an

1 exhibit, right?

2 A. The complete list was -- the complete list that X-Ways
3 Forensics generated was provided as an exhibit, yes.

4 Q. And that's what this is, right?

5 A. If you're looking at --

6 Q. 1145- -- 1143-005A?

7 A. Okay.

8 Q. So at least in this form, this spreadsheet could not be
9 used to verify any of the filed time data in your derivative
02:38 10 spreadsheet because it's missing --

11 A. I'm not sure all of the columns have the time and date
12 listed the way that it is but, again, we used both AD Labs and
13 X-Ways Forensics to verify the information.

14 Q. Do you know which one you used in this particular
15 instance?

16 A. I do not know which one.

17 Q. Can you explain why this particular tool generated date
18 and time information that's not comprehensible?

19 A. I don't know.

02:38 20 Q. I'm going to go now to Exhibit 1150 which is the Kingston
21 thumb drive found in the landfill that you talked about. Do
22 you remember that? Do you remember talking about that?

23 A. If you could bring up the spreadsheet again we could
24 confirm.

25 Q. Hold on. Exhibit 1145-01 -- I'm sorry -- 1150-01.

1 Now, the bulk of the files that you talked about on
2 this thumb drive were carved; in other words, they were
3 recovered from deleted space, correct?

4 A. They were either recovered or carved, yes.

5 Q. And when we see this path, "path unknown" with all of
6 that -- those numbers, et cetera, directory markers before the
7 file name, that's an indication that the file was carved,
8 right?

9 A. Using this particular software product, yes, it would tell
02:39 10 you that -- that CL is a cluster number of where that file was
11 located or started.

12 Q. And there's no way to know when the files were deleted off
13 that thumb drive, correct?

14 A. There's not. As again, with carved and deleted files,
15 it's more of access for investigative purposes than it is for
16 the date and timestamps.

17 Q. And one of the carved items retrieved from this thumb
18 drive, Exhibit 1150-09, was a rental application from Katherine
19 Tsarnaev, correct?

02:40 20 A. Yes.

21 Q. Okay. And a few pages in it includes her pay stub, right?

22 A. If that's '09, then yes.

23 Q. Let's talk a little bit more about 1475 which is the hard
24 drive seized from the street in Watertown. The derivative file
25 listing for that exhibit -- actually, rather than showing you

1 the file listing, what I think I'm going to do is go to the
2 file directory here.

3 Now, you testified last week and I think today that
4 these four folders at the top here actually existed in that
5 form on that hard drive, right?

6 A. Yes, I believe so. Yes.

7 Q. And this English paper that's still listed on the top
8 here, that actually was not visible in the hard drive as an
9 active file at the time it was seized. That, in fact, was
02:42 10 carved from having been deleted at some point in the past,
11 correct?

12 A. Yes.

13 Q. And the hard drive sort of contains a kind of greatest
14 hits collection, right? There's Awlaki materials, audio files
15 in that first folder, right?

16 A. I'm not sure what you mean by "greatest hits" but --

17 Q. Well, a lot of files that we've seen on -- that you talked
18 about from the Sony and other devices, a lot of those files --
19 a very large number of them are all here collected together on
02:43 20 this hard drive from Laurel Street in Watertown. Is that
21 right?

22 A. Can you slide the screen over so I can see the next half?

23 Q. I'm sorry. So that's a collection of Awlaki audio files,
24 correct?

25 A. Those are a collection of Awlaki files, yes.

1 Q. And there are these Russian textbooks about explosives, et
2 cetera, right?

3 A. There are Russian textbooks in there, yes.

4 Q. Well, and you remember looking at the translations from
5 the derivative file exhibit that the titles have to do with
6 explosives and munitions and that kind of thing, right?

7 A. You're going to refer to each of them specifically or do
8 you want --

9 Q. Well, as a general category. You've looked at the
02:43 10 translations of these titles in your spreadsheet, right?

11 A. Well, yeah. Do you want to make reference back to that or
12 are you asking --

13 Q. I'm trying to ask some general questions about the
14 category, the type of materials first. If you want to look at
15 the list, we can.

16 A. Well, if you'd like to ask me specifically, I can comment
17 on --

18 Q. Well, the first thing I want to do is ask as a general
19 matter this collection of DjVu e-reader files in Russian, it's
02:44 20 a collection of lengthy texts about explosives and munitions,
21 correct?

22 A. We can go through each one and look at the top page and I
23 can tell you --

24 Q. Well, your own exhibit, the derivative exhibit, contains
25 translations in the side, right, titles include "Detonation of

1 Explosive Media," "Physics of Explosion and Impact," "Blast
2 Effects of Explosions," "Initiating Explosive Substances," et
3 cetera, right? Those are the titles of those files, correct?

4 A. Yes.

5 Q. And you testified that carved artifacts of those files
6 were found on one of the thumb drives, right?

7 A. Yes.

8 Q. But it's true, isn't it, that none of these files or any
9 artifacts reflecting these files exist on the Sony VAIO

02:44 10 computer?

11 A. I'd have to go back to the information that we have, but I
12 don't have that all committed to memory. I mean, I do know
13 they existed here. If you would like to go back and look at
14 the file listing we can identify whether or not they were
15 there.

16 Q. As far as you know sitting here today it's true, isn't it,
17 or at least as far as you can recall, that these files do not
18 exist on the Sony VAIO?

19 A. I don't know that for a fact. I would have to go back and
02:45 20 look at the listing.

21 Q. You don't know?

22 A. I don't have the information to make that determination.

23 Q. Okay. Now, in addition to those materials, there's a
24 collection of *Inspire* magazines as well, right?

25 A. Yes.

1 Q. Okay. And there were also some files on the top level of
2 this hard drive that -- when it was recovered that were not
3 included in this exhibit, correct?

4 A. I think there were. I was asked to verify these to make
5 sure that they existed.

6 Q. Okay. I just want to pull out some things from the
7 complete file listing just to nail that down.

8 Pulling up a page out of 1475-02A, which is the
9 complete file listing from this drive, there were some other
02:46 10 items at the top level of the drive that are highlighted in
11 yellow here that we have seen on other exhibits but that also
12 were on this hard drive recovered in Watertown, correct?

13 A. Yes. If this is from 02A, then, yes, that is a directory
14 listing from the drive.

15 Q. So "Book of the End," "Join the Caravan," those are all
16 on, as well, the top level of this hard drive when it was
17 recovered, correct?

18 A. Apparently so, yes.

19 Q. And further down the file list you're aware that there are
02:46 20 a couple of Russian language documents also on the top level of
21 this drive when it was recovered, correct?

22 A. Yes.

23 Q. And these are documents that have Russian language
24 instructions about making explosives, correct?

25 A. I don't know that.

1 Q. You don't know what these files have?

2 A. No, I did not look in the translation for those files.

3 Q. Did anybody under your supervision at the CART team of the
4 FBI ever find out what was in those files?

5 A. Not that I'm aware of.

6 MR. CHAKRAVARTY: Objection, your Honor.

7 THE COURT: No, it may stand.

8 BY MR. FICK:

9 Q. Now, isn't it true that this hard drive retrieved on
02:47 10 Laurel Street in Watertown was formatted by Tamerlan's Samsung
11 computer?

12 A. I don't have the information to determine that.

13 Q. You don't know?

14 A. I do not have the information to determine that.

15 Q. Well, whether you have it in front of you now, do you know
16 from anything you ever did in the case whether that is true?

17 A. I don't have the information in front of me to confirm
18 that.

19 Q. Again, putting apart what you do or don't have in front of
02:47 20 you, did you ever become aware from your work on this case as a
21 supervisor of the Boston CART team whether Tamerlan's computer
22 was the computer that formatted this hard drive?

23 A. I don't have that information to be able to make that
24 determination.

25 Q. Again, I'm asking not only about today but whether you

1 ever came to know -- or whether this was true in the past?

2 A. No.

3 Q. You don't know?

4 A. I don't know.

5 Q. Do you know whether anybody else at the FBI checked?

6 A. Checked what, sir?

7 Q. Checked to see what computer formatted this hard drive.

8 A. No.

9 Q. Isn't it true that every single file and folder on this
02:48 10 hard drive is owned by Tamerlan's computer, using the "owner"
11 as used in Windows parlance?

12 MR. CHAKRAVARTY: Objection, your Honor.

13 THE COURT: Overruled.

14 You may answer it.

15 THE WITNESS: Again, I don't have that information to
16 be able to make that determination nor did I, you know,
17 validate or verify that.

18 BY MR. FICK:

19 Q. Well, whether you have it in front of you now or validated
02:48 20 it or verified it, did you ever become aware in your role as a
21 supervisor of the CART team in Boston that every single file
22 and folder on this hard drive was created by Tamerlan's Samsung
23 computer?

24 A. No.

25 Q. You never became aware of that?

1 A. No.

2 Q. Do you know whether anyone else at the FBI ever became
3 aware of that?

4 A. I'm not aware of that.

5 MR. FICK: If I may have one moment, your Honor?

6 (Counsel confer off the record.)

7 MR. FICK: I have nothing further.

8 MR. CHAKRAVARTY: Just briefly, your Honor.

9 REDIRECT EXAMINATION

02:49 10 BY MR. CHAKRAVARTY:

11 Q. Agent Swindon, you were asked several questions about
12 different pieces of information on different devices, that you
13 weren't able to recall whether that information that Mr. Fick
14 asked you was, in fact, on those devices. Can you explain for
15 the jury what the conditions are in which you go through in
16 order to verify that certain documents are, in fact, on the
17 different devices that you've talked about?

18 A. It was different for each of the different -- it was a
19 variety of devices and a variety of different types of files.
02:50 20 In they were in active space and an MD5 was available, as we
21 spoke earlier, we would do that MD5 match to verify that that
22 was there. If they were carved in recovered space, we would
23 sit and go file by file and do a visual as we did like in the
24 DjVu files. So there was -- we used a different -- a variety
25 of different information to verify the information that was on

1 the exhibits.

2 Q. And is this the kind of activity that you can do on the
3 fly when -- during cross-examination?

4 MR. FICK: Objection.

5 THE COURT: Sustained.

6 BY MR. CHAKRAVARTY:

7 Q. What are the circumstances -- what are the resources you
8 have at your disposal to do that?

9 A. Well, we have the forensic team here in Boston, and we
02:50 10 were -- I mean, the process to validate and verify took days to
11 do, 20-hour days, probably four, five days of looking through
12 every single one of the files on the exhibits. And this was
13 just a subset of the totality of all the files that were seized
14 in the case or that were a part of the forensic process in the
15 case.

16 Q. In response to one of the questions from Mr. Fick you said
17 that it's -- you weren't sure what one of the files on one of
18 the -- I think the file system record date was. Is that right?

19 A. I was actually not sure of where that information actually
02:51 20 originated from.

21 Q. Right. And at one point did you know that and just didn't
22 remember?

23 A. Again, we used a variety of different tools to verify that
24 information.

25 Q. Can I show you something that might refresh your

1 recollection?

2 A. Okay.

3 MR. CHAKRAVARTY: May I approach, your Honor?

4 THE COURT: You may.

5 MR. FICK: Can I ask to see what he's showing the
6 witness?

7 THE COURT: Show it to Mr. Fick.

8 (Pause.)

9 BY MR. CHAKRAVARTY:

02:52 10 Q. I'm handing you a note. Can you read that to yourself,
11 please?

12 A. Okay.

13 Q. Does that help refresh your recollection?

14 A. It puts the information in context.

15 Q. All right. And is that just a note?

16 A. It's just a handwritten note.

17 Q. What I've just handed you is a handwritten note?

18 A. Yes.

19 Q. With that information could you explain what the file
02:52 20 system record date was that was in that column?

21 A. The record column was the column, as we had spoken about,
22 was created by AD Labs, or was taken from AD Labs.

23 Q. And is that your memory that you're testifying from?

24 A. Yes.

25 Q. And so various tools -- different tools were used at

1 different times in order to both extract data as well as to
2 verify data. Is that fair to say?

3 A. Yes.

4 Q. And if you used two different tools to do the same
5 function, does it sometimes produce different results?

6 A. It depends on where it's pulling that information from.

7 Q. So if you're comparing data from one tool with data from
8 another tool, is that like comparing apples to oranges?

9 A. For the most part, yes. The tools are tested and
02:53 10 validated, although there are different version of the tools.

11 And, again, I would have to go back to the original tool to get
12 to the specific on that.

13 Q. Mr. Fick asked you about some of the activity that
14 occurred on the Sony VAIO computer. And when you had extracted
15 files from the Sony VAIO computer, did you make observations of
16 other files that were on that computer other than the ones that
17 you extracted?

18 A. I didn't extract the files; I just utilized the exhibits
19 and went back to the original file set in the software and
02:54 20 determined that they were there.

21 Q. And were you able to make a determination as to who the
22 user was of that Sony VAIO computer?

23 A. Based on the activity that we were preparing and verifying
24 from the exhibits that -- you know, we determined that it was
25 Jahar's laptop.

1 Q. And the fact that other devices were also plugged into
2 that laptop, how did you come to that conclusion?

3 A. Well, again, as we had spoke about before, in the registry
4 there is a report that will track all of the physical devices
5 that are plugged in through the USB ports.

6 Q. So when Mr. Fick asked you as to whether some of the dates
7 of the creation of some files on that laptop predated -- I
8 think the date that he used was September 2011, does -- from
9 the file listing, if the file listing was created -- or showed
02:55 10 that a file was created after September of 2011, could you
11 conclude as to who the likely user of that laptop was for that
12 file list?

13 A. I'm not sure. Can you rephrase the question?

14 Q. I'll rephrase. It was a bad question.

15 The complete file listing, did it show the dates that
16 the files were accessed on that computer?

17 A. It would show a created/modified/accessed in the file
18 record or born-on update.

19 Q. And you described that no good computer forensic scientist
02:55 20 would rely exclusively on the Windows information. Is that
21 right?

22 A. There are a number of different pieces of information that
23 we would draw on to make a determination.

24 Q. Okay. And could you explain just to the jury why just if
25 they see a date, that's not dispositive as to when something

1 might be accessed?

2 A. Well, it depends -- when files are created, depending on
3 where they're created, sometimes if they were created on the
4 Internet and you put a thumb drive in a computer and download
5 that file from the Internet to the thumb drive, it's never
6 really born on the computer; it could have been created
7 someplace else and then written to the thumb drive. So you
8 would have to use a number of different pieces of information
9 to determine the actual, you know, creation date on that
02:56 10 computer.

11 Q. And so the file that Mr. Fick showed you actually had a
12 creation date of October 10th of 2011. Do you remember that?

13 A. Which file? He showed me --

14 Q. I think it was the Five Ground Rules. It was a very dense
15 chart. It's not worth putting it back up on the screen, but it
16 was a very dense chart that you had to zoom in on. Do you
17 remember that?

18 A. Yes.

19 Q. And so October 10, 2011, in the complete file listing,
02:56 20 what does that mean?

21 A. What column was that --

22 Q. I think it was in the creation --

23 A. In the creation? With the X-Ways report, it would have
24 been when that was created, or created on that computer.

25 Q. So that means during the school year of 2011, that file

1 was created on the Sony laptop?

2 MR. FICK: Objection.

3 THE COURT: Sustained.

4 BY MR. CHAKRAVARTY:

5 Q. What does that tell you about the -- in relation to the
6 school year as to when that file was created on the Sony
7 laptop?

8 MR. FICK: Objection.

9 THE COURT: Sustained.

02:57 10 BY MR. CHAKRAVARTY:

11 Q. Can you conclude anything about the creation date of that
12 file on that computer?

13 A. Other than the report shows that it was that date of
14 October 11th.

15 MR. CHAKRAVARTY: Call up 1143-01.

16 Q. This was a document that Mr. Fick showed you.

17 MR. CHAKRAVARTY: Can we go down to the last page, or
18 two pages down, please? Keep going down to -- I think it's
19 January 1st. Keep going. Right there.

02:58 20 Q. So he highlighted this entry where the JTsarnaev Yahoo
21 mail account was accessed. Is that right? Do you remember
22 that?

23 A. Yes.

24 MR. CHAKRAVARTY: And so if we can go back to the
25 earlier page, Mr. Bruemmer.

1 Q. Just to clarify, this spreadsheet was generated from the
2 desktop computer that was at the residence of 410 Norfolk
3 Street. Is that right?

4 A. Can you go back up to the top of the report, please?

5 MR. CHAKRAVARTY: Page 1, please.

6 A. At 2R14. Yes, the HP desktop.

7 Q. So this showed that somebody logged into the JTsarnaev
8 Yahoo email account on that computer on January 6th?

9 A. There was a browser history record on that computer of
02:58 10 somebody logging into that email account.

11 Q. And Mr. Fick also asked you about when Tamerlan Tsarnaev
12 was not in the country, and he gave you like a six-month period
13 through July of 2012. Do you remember that?

14 A. He asked that question, yeah.

15 Q. And so all these dates that occurred before July of 2012,
16 that would suggest that it was somebody else using this
17 computer. Is that fair to say?

18 MR. FICK: Objection. Those aren't the dates on the
19 screen. The dates on the screen are 2013 dates. Oh, I'm
02:59 20 sorry. I'm on the wrong screen.

21 THE COURT: All right. Go ahead.

22 BY MR. CHAKRAVARTY:

23 Q. Sir, you can answer the question. The question was: Does
24 it mean that the user of this computer was not Tamerlan
25 Tsarnaev during that time?

1 A. It was not Tamerlan Tsarnaev.

2 Q. So all of this ESPN, MTV, all that stuff was not Tamerlan
3 Tsarnaev, right?

4 A. It was not.

5 Q. Okay.

6 MR. CHAKRAVARTY: Can we go to the next page?

7 Q. And that goes on for another page.

8 MR. CHAKRAVARTY: Go down to the next page.

9 Q. And another page. It looks like somebody's watching "Teen
03:00 10 Wolf."

11 MR. CHAKRAVARTY: Next page.

12 Q. And Netflix as well, and then "Walking Dead." These are
13 all things that that person liked to watch?

14 A. That was the Internet access that was recorded during that
15 time.

16 MR. CHAKRAVARTY: Now can we go to the file listing of
17 1143?

18 Q. So going back to 1143, we called up one of the folder
19 directories. These are some of the files that were on the
03:00 20 1143, the desktop computer in the Norfolk Street residence,
21 right?

22 A. Except for the ones that are denoted with an A, they're
23 actually the translations for the files that correspond to the
24 numbers.

25 Q. So all of the "Hereafter Series" is in there from Anwar

1 Awlaki. Is that right?

2 A. Yes, they are in that folder.

3 Q. And a number of audio files, or nasheeds. Is that right?

4 A. Can you scroll over for a second?

5 Q. In fact, some of these nasheeds were also found on the

6 1R6. Is that fair to say?

7 A. I would have to look at the verification, but I recognize
8 some of the titles from --

9 Q. Some of the titles. But until you see an MD5#, you

03:01 10 wouldn't be able to --

11 A. No.

12 Q. And there's some videos as well?

13 A. That came out of the new folder, yes.

14 MR. FICK: Object to the scope at this point.

15 THE COURT: All right.

16 MR. CHAKRAVARTY: I'm done with this.

17 THE COURT: All right.

18 BY MR. CHAKRAVARTY:

19 Q. Now, you were also asked about whether there were any

03:02 20 other computers in the Tsarnaev family household prior to this

21 desktop computer that -- whether you were aware of any other

22 computers. Do you remember that?

23 A. Yes, I was asked that question, yes.

24 Q. And going to 1557, we haven't talked much about the 2R58.

25 Do you see that?

1 A. Yes.

2 Q. What do you know about that device?

3 A. Well, from the description --

4 MR. FICK: Object to the scope.

5 THE COURT: Sustained.

6 BY MR. CHAKRAVARTY:

7 Q. Were there other devices found in 410 Norfolk Street?

8 A. There are other devices on this list that were found from
9 410 Norfolk Street.

03:03 10 Q. And with regard to the data that is on the disks that
11 you've entered into evidence, with the exception of those
12 pieces such as translations and the derivative analytical
13 products which have some titles and things on them, was
14 everything else that you brought into court actually found on
15 each of the devices that you have talked about?

16 A. With the exceptions that we spoke about this morning with
17 the titles of the corrupted files and the DjVu files that were
18 converted, yes.

19 MR. CHAKRAVARTY: That's all I have, your Honor.

03:03 20 MR. FICK: Very briefly. Just one moment.

21 (Pause.)

22 MR. FICK: Could we have the screen back to the
23 monitor here?

24 THE COURT: I'm waiting for something to come up.

25 MR. FICK: Okay. Is this the cord that's attached,

1 because it should be --

2 THE COURT: No, I have it. I'm just waiting to see
3 whether there's an image and then I'll expose it.

4 MR. FICK: Oh, I see.

5 (Pause.)

6 RE CROSS-EXAMINATION

7 BY MR. FICK:

8 Q. Now, Mr. Chakravarty asked you some questions to
9 clarify -- or at least try to clarify the meaning of this
03:05 10 file -- system record date in local time, right?

11 A. Yes.

12 Q. He showed you something on a handwritten piece of paper.
13 Who wrote that?

14 A. I don't recognize the handwriting on that.

15 Q. So anyway, your answer to the question was the data from
16 the second column came from the AD Labs tool, right?

17 A. I said the record column is in AD Labs. That's what all
18 that --

19 Q. All right. But regardless of what tool we're talking
03:05 20 about, all of these tools extract information from the -- from
21 Windows and from the Windows metadata, correct?

22 A. They do. But they also could interpret it in different
23 ways.

24 Q. But ultimately there is an answer, for example, to the
25 question about when a file was created on a local computer,

1 right?

2 A. There's information available from numerous sources that
3 were used to determine when that file was created on that
4 computer.

5 Q. And if tools conflict, one would have to look deeper to
6 figure out what the conflict is and answer the question, right?

7 A. They would have to do some additional analysis to
8 determine that.

9 Q. Now, quite apart from what tool generated this file system
03:06 10 record date, my question is still which Windows artifact is the
11 file system record date?

12 A. I'd have to check with AD Labs. I don't have that
13 information sitting here today.

14 Q. Okay. So even if now you remember from the handwritten
15 note that AD Labs generated this information, you still can't
16 tell me what that information means?

17 A. Not without having the software in front of me, no.

18 Q. Okay.

19 MR. FICK: That's all.

03:07 20 THE COURT: All right, Agent. Thank you. You may
21 step down.

22 THE WITNESS: Thank you.

23 (The witness is excused.)

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C E R T I F I C A T E

We, Marcia G. Patrisso, RMR, CRR, and Cheryl Dahlstrom, RMR, CRR, Official Reporters of the United States District Court, do hereby certify that the foregoing transcript constitutes, to the best of our skill and ability, a true and accurate transcription of our stenotype notes taken in the matter of Criminal Action No. 13-10200-GAO, United States of America v. Dzhokhar A. Tsarnaev.

/s/ Marcia G. Patrisso
MARCIA G. PATRISSE, RMR, CRR
Official Court Reporter

/s/ Cheryl Dahlstrom
CHERYL DAHLSTROM, RMR, CRR

Date: 3/25/15