

EXHIBIT N

IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF ILLINOIS, EASTERN DIVISION

MIKE HARRIS and JEFF DUNSTAN, x
individually and on behalf of :
a class of similarly situated :
individuals, :
: :
Plaintiffs, : Case No. 1:11-5807
vs. : Hon. James F. Holderman
: :
COMSCORE, INC., a Delaware :
corporation, :
: :
Defendant. x

Thursday, September 13, 2012

Reston, Virginia

DEPOSITION OF:

MICHIKO AVANTIKA CHAND,

a witness, called for oral examination by counsel for
plaintiffs in the above-captioned matter, pursuant to
Notice and agreement of the parties as to time and date,
held at the offices of comScore, Inc., 11950 Democracy
Drive, Suite 600, Reston, Virginia 20191, beginning at
approximately 9:30 o'clock, a.m., before Patricia Klepp,
RMR, a court reporter and Notary Public in and for the
Commonwealth of Virginia, when were present on behalf of
the respective parties:

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1 APPEARANCE OF COUNSEL:
 2 For the Plaintiffs:
 3 EDELSON McGUIRE, LLC
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 11 For the Defendant:
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 18 --continued--
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 20
 21
 22

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1 APPEARANCE OF COUNSEL: (cont)
 2 For the Defendant:
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 10 - 0 -
 11
 12 I-N-D-E-X
 13 Witness: Page:
 14 MICHIKO AVANTIKA CHAND
 15 Examination by Mr. Givens 4
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 18 Exhibits: (Included in transcript) Page:
 19 Deposition Exhibit No. 1 31
 20 Deposition Exhibit No. 2 35
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1 PROCEEDINGS
 2 Thereupon,
 3 MICHIKO AVANTIKA CHAND,
 4 a witness, was called for examination by counsel for the
 5 plaintiffs, and after having first been duly sworn by
 6 the Notary Public, was examined and testified as
 7 follows:
 8 EXAMINATION BY COUNSEL FOR PLAINTIFFS
 9 BY MR.GIVENS:
 10 Q. Good morning.
 11 A. Good morning.
 12 Q. Is this your first time sitting for a
 13 deposition, Michiko?
 14 A. Yes.
 15 Q. Fine. Well, just a couple of quick ground
 16 rules. This is just a conversation, but unlike most
 17 conversations, Patricia is going to be typing everything
 18 we say, so everything that you respond to my questions
 19 has to be verbal. So you can't shrug your shoulders, or
 20 nod your head, or stick out your tongue at me, because
 21 that won't get picked up. So if you can, please try to
 22 remember to do that. If not, I'll try to remind you.

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1 I'm going to presume you understand all my
 2 questions. If not, just ask me to verify, and I'm happy
 3 to do that anytime.
 4 If you ever want to take a break, get a glass
 5 of water, go to the restroom, just let me know, that's
 6 fine; I only ask that if I have a question pending, that
 7 you answer the question that's pending first, and then
 8 we'll take break.
 9 Is there any reason why this morning you can't
 10 give full, truthful testimony? Are you on any
 11 medications?
 12 A. No.
 13 Q. Okay. So just to start with, can you tell me
 14 what your role is, here at comScore?
 15 A. I am a quality assurance manager.
 16 Q. How long have you been the QA manager?
 17 A. Since April this year.
 18 Q. April of this year?
 19 A. Yes.
 20 Q. And what is your job description?
 21 A. I work on the Windows meter, CPROXY, and I
 22 also oversee the automation of some of the testing that

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1 A. Yes.
 2 Q. Can you explain to me in general, if a user is
 3 browsing the internet, how that information is
 4 collected?
 5 A. It's collected in XML format, and it depends
 6 on what the user is doing on the internet.
 7 Q. Can you elaborate?
 8 A. If he visits a page, like CNN.com, we log that
 9 he visited CNN.com.
 10 Q. You log the URL?
 11 A. Yes.
 12 Q. And that information is sent to comScore
 13 servers?
 14 A. Yes.
 15 Q. How is it sent to comScore servers?
 16 A. It's posted by OSSProxy.
 17 Q. XML post?
 18 A. Yes.
 19 Q. Does that happen in realtime?
 20 A. Yes.
 21 Q. How about page data; how is that collected?
 22 A. It's collected for some pages.

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1 Q. How do you determine which pages information
 2 is collected from?
 3 A. It's based on key words, and if it's a secure
 4 page, then we collect the page data.
 5 Q. What if it's not secure?
 6 A. Only if there is a key word match would we
 7 collect the page.
 8 Q. How do you determine the key words?
 9 A. It comes from requirements.
 10 Q. If OSSProxy detects a predefined key word,
 11 what information is then collected?
 12 A. The page data.
 13 Q. All of the page data?
 14 A. Yes.
 15 Q. What if it's a different MIME type? What if
 16 it's ASP or CSS? There's a question coming.
 17 (Whereupon, a discussion was held off the
 18 record.)
 19 BY MR. GIVENS:
 20 Q. Do the same rules apply? Key words are
 21 detected, and then information is collected?
 22 A. If there is a key word for that specific MIME

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1 type, it will be collected.
 2 Q. Thank you. When that key word is detected and
 3 the information is collected, the page data, is certain
 4 personally identifiable information fuzzified before
 5 it's sent to comScore servers?
 6 A. Yes.
 7 Q. How do you parse through the page data to
 8 figure out what's personally identifiable information?
 9 MS. BOWLAND: Objection.
 10 A. It's done in the code somewhere; I'm not sure
 11 how.
 12 BY MR. GIVENS:
 13 Q. You didn't develop the code?
 14 A. No.
 15 Q. If I said that comScore uses regular
 16 expressions to find those strings, does that sound
 17 right?
 18 A. Yes.
 19 Q. Do you know of any instances where comScore
 20 has known that personally identifiable information was
 21 not being fuzzified and being sent to comScore servers?
 22 A. Yes.

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1 Q. Do you know of any instances where comScore
 2 has known that personally identifiable information is
 3 being collected and not fuzzified, and it's continuing
 4 to let that happen?
 5 A. No.
 6 Q. Are you familiar with the Mystery Shopper
 7 program?
 8 A. Not much.
 9 Q. What are comScore's procedures for determining
 10 whether or not personally identifiable information is
 11 correctly being fuzzified?
 12 A. Like ...
 13 MS. BOWLAND: Objection; vague.
 14 A. Yes, a little more details, please.
 15 BY MR. GIVENS:
 16 Q. You don't make the objections; just to be
 17 clear.
 18 Within comScore, how do employees determine
 19 whether or not personally identifiable information is
 20 being correctly fuzzified that's collected from HTTP
 21 HTML page data?
 22 A. From a QA perspective?

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1 Q. Yes.
 2 A. We do tests every time a build is put out.
 3 Q. What do those tests entail?
 4 A. We visit secure sites, we make what the user
 5 would do and then check that the data is being
 6 fuzzified.
 7 Q. And if it's not being fuzzified, then what do
 8 you do?
 9 A. We take steps to correct it.
 10 Q. What steps do you take to correct it?
 11 A. We check if it's a code change that's needed,
 12 or is it a rule change, and then we accordingly take the
 13 steps to correct it.
 14 Q. In what scenarios would a rule change be
 15 needed?
 16 A. If something on the site changed
 17 significantly, and then we -- sometime it's a rule
 18 change.
 19 Q. In what situations would a code change be
 20 needed?
 21 A. If it's a new MIME type or something which is
 22 new to Proxy.

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1 Q. If a code change is needed to fuzzify
 2 personally identifiable information, how long would it
 3 take to implement that change?
 4 MS. BOWLAND: Objection; vague.
 5 THE WITNESS: Yes.
 6 BY MR. GIVENS:
 7 Q. You've determined that personally identifiable
 8 information is not being correctly fuzzified, but it
 9 requires a code change to fix.
 10 How long would it take to implement that code
 11 change?
 12 A. It depends on the extent of the code change.
 13 Q. On average, how long would it take?
 14 A. I cannot -- I mean, cannot say it like that;
 15 it really depends on the extent of the code change.
 16 Q. Could it be changed in a day?
 17 A. No.
 18 Q. Could it be changed in a week?
 19 A. Yes.
 20 Q. Could it be changed and then deployed to
 21 panelists in a week?
 22 A. Yes.

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1 Q. The discussion we've just had about the
 2 collection of HTTP HTML page data, do the same rules
 3 apply if it's HTTPS HTML page data?
 4 MS. BOWLAND: Objection; vague.
 5 BY MR. GIVENS:
 6 Q. You just described the process of how
 7 personally identifiable information is fuzzified and
 8 then sent to comScore servers in situations when a user
 9 is on an HTTP HTML website. Do those rules apply
 10 equally if the user is on a secure site, HTTPS?
 11 A. Do you mean the rules of fuzzification?
 12 Q. Yes.
 13 A. Yes.
 14 Q. Okay. Let's talk about the process for
 15 capturing HTTP HTML post data.
 16 How does OSSProxy want HTTP HTML post data to
 17 collect?
 18 MS. BOWLAND: Objection.
 19 A. Yes, a little more detail.
 20 BY MR. GIVENS:
 21 Q. What HTTP HTML post data does OSSProxy
 22 collect?

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1 A. If it's typed text HTML, it will collect it.
 2 Q. It will collect all post data?
 3 A. Yes.
 4 Q. Does it fuzzify all post data?
 5 A. Yes.
 6 Q. Is there any post data that's not fuzzified?
 7 A. All post data goes through a fuzzification
 8 route.
 9 Q. That didn't answer my question.
 10 So is all post data fuzzified?
 11 A. Yes.
 12 Q. All right.
 13 MR. GIVENS: Let's take a quick five-minute
 14 break.
 15 (Whereupon, a recess was taken.)
 16 MR. GIVENS: Back on.
 17 BY MR. GIVENS:
 18 Q. Okay. Before we took a break, we were
 19 discussing fuzzification of post data, and you said that
 20 all post data is fuzzified.
 21 A. Yes.
 22 Q. Are there -- there's no instances when post