


Exhibit 6

Case Clip(s) Detailed Report
Saturday, December 08, 2018, 4:43:50 PM

Finjan v. Juniper

 **Nagarajan, Chandra (Vol. 01) - 05/31/2018**

1 CLIP (RUNNING 00:31:58.496)

 Plaintiff's Deposition Designations for Chandra Nagarajan - Accepted Counters, Juniper's Counters, and Finjan's Counters (05-31-

CN0531-CC 72 SEGMENTS (RUNNING 00:31:58.496)



1. PAGE 10:05 TO 10:20 (RUNNING 00:00:47.877)

05 CHANDRA NAGARAJAN,
06 the witness herein, having been first duly sworn, was
07 examined and testified as follows:
08 EXAMINATION
09 BY MR. LEE:
10 Q Where do you work?
11 A I work in Juniper Networks.
12 Q What's your position at Juniper Networks?
13 A My position is a senior director in the
14 security business group.
15 Q What are your responsibilities?
16 A I manage a team of engineers and -- I'm
17 responsible for the engineering delivery of the product.
18 So I ensure we get the right specifications for the
19 product, and then we execute the schedule we come up
20 with for the features requested.

2. PAGE 11:21 TO 12:20 (RUNNING 00:01:32.753)

21 Q What is Sky ATP?
22 A Sky ATP is a cloud-delivered advanced threat
23 prevention service. It -- it works directly with SRX
24 and then try -- it tries to get files out of the
25 network, whatever is going through the network and makes
00012:01 a determination, to the best of its ability, what the
02 threat level of those files are. And it's -- it's
03 basically a SAS type of product where the most of the
04 functionalities reside in the cloud and the user itself
05 logs into the cloud and most of the input -- input on
06 the user interface is on the cloud site.
07 Q What does Sky ATP stand for?
08 A Sky is, I guess, is just a brand name, and the
09 A. T. P. is for advanced threat prevention.
10 Q What is advanced threat prevention?
11 A What is advanced -- so the advanced threat
12 prevention, the name mainly comes because in the market,
13 there are a lot of AVs which can detect if something
14 is -- is good or bad based on what they know. But
15 advanced threat prevention is something even if you get
16 a file, which it doesn't know about, it tries to
17 evaluate to the best of its capability and determines
18 the threat level.
19 Q So advanced threat prevention is for unknown
20 threats?

3. PAGE 12:22 TO 12:23 (RUNNING 00:00:06.646)

22 A Advanced threat protection is both for known
23 threats and also for unknown threats.

4. PAGE 12:24 TO 12:24 (RUNNING 00:00:03.404)

24 Q What are the key components of Sky ATP?

UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF CALIFORNIA	
Trial Exhibit 496	
Case No. 17-CV-05659-WHA	
Date Entered: _____	By: _____ Deputy Clerk

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5. PAGE 13:01 TO 13:19 (RUNNING 00:01:16.038)

00013:01 A So the key components of Sky ATP is there is a
 02 module in SRX which -- which analyzes a protocol, and if
 03 there is a -- is a particular file is fetched by the
 04 client, it determines the file category of it. And then
 05 if the user has configured that category to be analyzed,
 06 it takes the file, sends it to the cloud. Okay. And
 07 that's the first part of it.
 08 And then the action mostly moves the cloud
 09 where we have a set of adapters which inspects these
 10 files and -- there are a series of adapters which
 11 inspects these files, tries to get the behaviors of
 12 these files, and then it tries, to the best of its
 13 ability, to determine the threat level to this file.
 14 And the threat level can be -- the user can choose to do
 15 what with the threat level. They can try -- they can
 16 configure policies to let it go or just -- just log or
 17 they can configure policies to block it, or they can
 18 even configure to just to analyze these files without
 19 doing anything.

6. PAGE 17:02 TO 17:14 (RUNNING 00:00:45.557)

02 Q All right. In the collection of behaviors and
 03 the threat levels, are they stored anywhere?
 04 A The collection of behaviors is -- for a
 05 particular file is stored in -- in a file in S3, and --
 06 but the mapping of the behavior to the threat level is
 07 not stored. It's -- it's on a machine-learning
 08 algorithm. Even we don't -- even we're not able to
 09 clearly explain how that maps to the threat level. It's
 10 something which is a learned behavior by the machines.
 11 Q Is there -- strike that.
 12 Did you say the collection of behaviors is
 13 stored in S3?
 14 A Yes.

7. PAGE 17:24 TO 18:14 (RUNNING 00:01:05.733)

24 How do you know which file performed the
 25 collection of behaviors?
 00018:01 A Oh, I see. Okay.
 02 So whenever each file is given to the Sky ATP,
 03 we calculate a SHA-256. It's -- it's really a unique
 04 identifier to identify that file. And the collection of
 05 whatever behaviors of all the adapters which we store in
 06 S3 is linked to that -- the SHA-256 ID.
 07 Q How is it linked to the SHA-256 ID?
 08 A So we store the ID in the DynamoDB of AWS, and
 09 then from there, there's a link to the S3 for that
 10 sample, which -- which has all this -- all the results
 11 of the various adapters stored in a file in some
 12 unstructured format. It's a JSON format, and it has
 13 various sections where all the -- it has information of
 14 the behaviors from various adapters.

8. PAGE 18:16 TO 18:20 (RUNNING 00:00:15.892)

16 So the collection of behaviors is stored in
 17 DynamoDB, and there's a -- a link --
 18 A Not -- the collection of behaviors is not
 19 stored in the DynamoDB. The collect -- the SHA ID and
 20 the link to the behaviors are stored in the DynamoDB.

9. PAGE 18:21 TO 19:01 (RUNNING 00:00:18.968)

21 Q When you say the "link to the behaviors," can
 22 you elaborate? Is that two -- the SHA-256?

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23 A No. The -- the actual behaviors are stored in
 24 the S3. Once you look up a SHA-256, somehow you were to
 25 get to that file where all this information is stored.
 00019:01 That's why I call it as a link.

10. PAGE 19:02 TO 19:05 (RUNNING 00:00:16.312)

02 Q And you say a link. Is it like a hyperlink?
 03 A I haven't exactly looked at the source code,
 04 so I won't be able to authoritatively state how it looks
 05 like. I think the answer should be in the source code.

11. PAGE 19:06 TO 19:17 (RUNNING 00:00:46.087)

06 Q What is DynamoDB?
 07 A The DynamoDB is an Amazon-provided service.
 08 And it is a -- it is a new class of schema LS database
 09 where you can store some key-value files in the -- in
 10 the DynamoDB. And it's very -- very efficient. They
 11 provide a higher availability in all those things.
 12 Q What do you mean by key-value pairs?
 13 A The key-values -- for example, the SHA-256,
 14 that's a key for us to locate the -- all this
 15 information of the various adapters. And the value I
 16 would say what I would call is the link to get the
 17 behaviors.

12. PAGE 19:18 TO 19:19 (RUNNING 00:00:06.223)

18 Q Is anything else stored in DynamoDB other than
 19 the SHA-256 and the link to the behaviors?

13. PAGE 19:21 TO 20:01 (RUNNING 00:00:20.601)

21 A So I -- I would say since my involvement is at
 22 the -- the secondary level, I haven't looked at the
 23 source code. So I would say maybe the threat level is
 24 stored, if I were to guess, here. I think the source
 25 code would be the most authoritative. But I would --
 00020:01 it's possible that the threat level is stored there.

14. PAGE 23:07 TO 23:14 (RUNNING 00:00:29.248)

07 Q Are these characteristics stored anywhere?
 08 A Again, the characteristics are stored in the
 09 file, whatever we mentioned before. That is a file
 10 where it's an unstructured format in JSON. It has the
 11 results of the adapters. Whatever characteristics we --
 12 we get out of this greyduckling is again stored as a
 13 result in that file as a -- as an analysis of the
 14 greyduckling adapter.

15. PAGE 23:15 TO 23:16 (RUNNING 00:00:03.640)

15 Q Is there a name for this file that contains
 16 the results?

16. PAGE 23:18 TO 24:03 (RUNNING 00:00:34.043)

18 A So it is -- I'm not aware of any name. So
 19 we -- we -- I think in the code maybe it is referred as
 20 a results database, where it has the identifier with the
 21 links we set to the results of all the adapters of the
 22 file.
 23 Q Just to be clear, I'm asking about the -- the
 24 file that contains all the results.
 25 A Uh-huh.
 00024:01 Q You said it's a JSON file?
 02 A Yes.
 03 Q Is there a name for that file?

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17. PAGE 24:05 TO 24:10 (RUNNING 00:00:23.551)

05 A There's a -- is there a technical name? It's
06 just a -- it is just a -- it's -- you can call it
07 results -- adapter results file, but I don't think we
08 call it in -- a specific name for that file. Maybe the
09 file name is usually identified as a ID, dot, something,
10 the name of the file itself, the way it is stored.

18. PAGE 24:11 TO 24:15 (RUNNING 00:00:17.963)

11 Q Is this JSON fail -- file stored in results
12 database?
13 A So the JSON file is stored in S3. And the --
14 the DynamoDB links the -- the identifier for the file to
15 the results file.

19. PAGE 24:18 TO 24:23 (RUNNING 00:00:21.147)

18 Q Did you mention a results database?
19 A So in the -- in the -- technically internal to
20 the team, we refer to it as a results database. In the
21 code maybe there is reference to the results database,
22 but the -- the way it works is we're using the DynamoDB
23 and the JSON file.

20. PAGE 24:24 TO 25:11 (RUNNING 00:00:56.249)

24 Q What is the results database?
25 A I'll -- I'll repeat one more time since the
00025:01 question is the same. So the results database, whatever
02 you see in the code is just your DynamoDB, which has a
03 key as the SHA-256 as an identifier. And from there you
04 can directly link to the JSON file, which has all the
05 behaviors of the adapter, and the JSON file is stored in
06 S3.
07 Q So the results database is a combination of
08 DynamoDB and S3?
09 A Yes. It's a combination of the -- the
10 DynamoDB and the -- and the information in S3.
11 Q What's the purpose of the results database?

21. PAGE 25:13 TO 25:20 (RUNNING 00:00:35.438)

13 A The purpose of the -- the DynamoDB is -- is
14 when you get a file from the SRX, the cloud calculates
15 the ID using the SHA-256 column, and it looks up the
16 DynamoDB and then gets the threat level. And if the
17 file existed, you'll immediately get the threat level.
18 If it doesn't exist, then the code allows it to go
19 through the rest of the adapters to get the file -- file
20 analysis more.

22. PAGE 32:17 TO 33:02 (RUNNING 00:00:41.285)

17 Q Previously, I asked you what are the key
18 components for Sky ATP. Do you recall that?
19 A Uh-huh.
20 Q I think you mentioned SRX adapters and
21 policies?
22 A Uh-huh. I -- okay. That's correct. There
23 are some modules in SRX to get the files.
24 Q So why are the adapters a key component?
25 A The adapters are a key component because the
00033:01 adapters determine the threat level for the file, which
02 is the primary -- primary goal of this ATP product.

23. PAGE 35:20 TO 35:20 (RUNNING 00:00:02.751)

20 Q Why was Sky ATP developed?

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