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CYBER ATTACK INVESTIGATION COMMITTEE

MEETING

MINUTES

A meeting of the Cyber Attack Investigation Committee of the Suffolk County Legislature was held hybrid in the Rose Y. Caracappa Legislative Auditorium of the William H. Rogers Legislature Building, 725 Veterans Memorial Highway, Smithtown, New York on August 8, 2023.

Members:

Legislator Anthony A. Piccirillo, Chairman
Legislator Kevin McCaffrey
Legislator Jason Richberg
Legislator Robert Trotta (excused)
Legislator James Mazzarella
Legislator Sarah Anker

Also in Attendance:

Hope Clark - Deputy Clerk/Suffolk County Legislature
Honorable Richard Donaghue - Special Counsel
All Other Interested Parties

Minutes Taken By:

Gabrielle Severs - Court Stenographer

(The meeting was called to order at 9:11 a.m.)

CHAIRMAN PICCIRILLO:

Good morning, everyone. The investigations committee will come to order. If we could all please rise for the Pledge of Allegiance led by Presiding Officer Kevin McCaffrey.

(Pledge of Allegiance)

Good morning, Madam Clerk. Roll call, please.

(The roll was called by Chief Deputy Clerk Clark.)

CHAIRMAN PICCIRILLO:

Present.

LEG. MAZZARELLA:

Present.

LEG. ANKER:

Here.

LEG. TROTTA:

(Excused.)

CHAIRMAN PICCIRILLO:

Legislator Trotta has an excused absence.

LEG. RICHBERG:

Present.

P.O. MCCAFFREY:

Five.

CHIEF DEPUTY CLERK CLARK:

Five.

CHAIRMAN PICCIRILLO:

Thank you, Madam Clerk. Before I turn it over to special counsel, we're just going to go a little out of order today. We do have some business that we have to do before public testimony, so we will be in executive session for a short period of time, and then we will come out and hear from our witness. So without further adieu, the chair yields to Special Counsel Rich Donaghue.

HON. DONAGHUE:

Good morning, Mr. Chairman. Thank you. By way of update, I just want to let the committee know that we have continued the investigation since the last public hearing. We have done several additional witness interviews and gathered more relevant information. We currently have about 34,000 documents produced to us from the county executive's office. We are still awaiting on additional documents including several forensic reports that are relevant to the committee's investigation.

As you may note, Mr. Chairman, there are two witnesses on today's

1 calendar who we do not believe are going to appear. Mr. Cordiale
2 and Mr. Bloom are county employees who have been interviewed in the
3 course of this investigation. They have relevant evidence to the
4 committee's mission here to determine the causes and the factors
5 that led up to the cyber breach. They are both represented by
6 counsel provided by the AME. We were informed by AME counsel late
7 yesterday afternoon that, despite the fact that subpoenas were
8 served on counsel last week, those witnesses would not appear.

9
10 In executive session, I intend to request authorization from the
11 committee to enforce the subpoenas judicially, and we'll have
12 further discussions on that.

13
14 **CHAIRMAN PICCIRILLO:**

15 Thank you, Mr. Donaghue. We're going to go into executive session.
16 Can I have a motion and a second. Motion by Legislator Mazzarella.
17 Second by Minority Leader Richberg. Anyone on the motion? All
18 those in favor? Opposed? Abstentions?

19
20 **CHIEF DEPUTY CLERK CLARK:**

21 Five.

22
23 **CHAIRMAN PICCIRILLO:**

24 We are in executive session. We'll be back folks. Thank you.

25
26 (The committee met in executive session
27 from 9:13 a.m. until 9:40 a.m.)

28
29 Okay, folks. We're out of executive session. I'm going to turn it
30 over to Mr. Donaghue to let you know what happened there, and then
31 we'll go to our public portion and then our witness. Mr. Donaghue.

32
33 **HON. DONAGHUE:**

34 Thank you, Mr. Chairman. As the committee knows, in executive
35 session we discuss and the committee authorized the issuance of
36 additional subpoenas in furtherance of the committee's
37 investigation. The committee further authorized that any subpoenas
38 that need to be enforced by judicial means may be pursued by the
39 special counsel through a filing in state supreme court to have
40 those subpoenas enforced by the court.

41
42 **CHAIRMAN PICCIRILLO:**

43 Thank you, Mr. Donaghue.

44
45 We do have one public speaker today, Judy Pascale. Judy, why don't
46 you come up. You have three minutes. Thank you for being with us
47 this morning. Just turn that mike on. Thank you, Judy. Go ahead.

48
49 **MS. PASCALE:**

50 Thank you for having me. Thank you, Mr. Chairman, Counsel, and
51 Members of this committee, for allowing me the opportunity to
52 address a few issues relevant to this committee. When it became
53 clear that all 62 New York State county clerks were transitioning
54 to a paperless technology in both court and real property filings,
55 the title of "county clerk I.T. director" was created. With the
56 voluntary input of a committee of outside I.T. industry experts,

1 the job specification for this unique position was outlined and
2 approved by the New York State Civil Service Commission. The job
3 search for this novel position, posted on several national media
4 outlets, resulted in the interviewing of over 10 candidates with
5 Mr. Schlusser being the in unanimous choice of the entire
6 committee.

7
8 Immediately upon joining the county clerk's office, Mr. Schlusser
9 developed and assembled an I.T. team and charged them with meeting
10 and streamlining the unique mandated functions of the county
11 clerk's office. As a direct result of Mr. Schlusser's
12 technological expertise and dedication to the taxpayers of Suffolk
13 County, the Suffolk County Clerk's Office has received national and
14 global recognition in the form of numerous awards, among them being
15 the Knowledge Management Award by Federal Computer Week, Computer
16 World's Honors Program by Info World, Computer World Honors
17 Laureate Award, placing us in the top five after competing with
18 hundreds of organizations both statewide and globally, the 2010
19 achievement award from the National Association of Counties, and
20 last but certainly not least, Suffolk County Clerk's Office has won
21 the best of New York by government technology a total of three
22 times.

23
24 To my knowledge, none of the other 61 county clerk's offices in New
25 York State has earned similar positive recognition in streamlining
26 government and making it more user friendly for our constituents.
27 To my knowledge, no other branches of county government have
28 received the number and scope of acclamations for achievement in
29 the field of technology. Without hesitation, I can say that none
30 of these prestigious awards would have would been bestowed on
31 Suffolk County were it not for the technological expertise and
32 commitment of Pete Schlusser and the team he cultivated and
33 supervised in the county clerk's office. When the covid lockdown
34 was imposed and much of the world came to a grinding halt, Mr.
35 Schlusser lead his I.T. team to successfully transition over 500
36 users the ability to work offsite. This was achieved within a
37 48-hour period enabling the title industry as well as employees of
38 the county clerk, comptroller, and real property tax service the
39 ability to fully perform their job duties remotely. This was
40 particularly critical and timely since the covid lockdown coincided
41 with an unprecedented surge in Suffolk's real estate activity.
42 Continuing with our commitment to share services, Mr. Schlusser
43 and his team devised systems whereby the comptroller was able to
44 pay vendors, accept tax payments, and continue the functions of the
45 county's financial system during a global pandemic. When the
46 rising issue of fraudulent activity of deed and mortgage filings
47 became a national concern, Mr. Schlusser suggested and created
48 what is now known as the "Homeowner's Watch List," whereby
49 Suffolk's homeowners can be to any recent activity regarding their
50 real property documents filed in the clerk's office. Unlike
51 similar commercial services, Suffolk's homeowners once enrolled are
52 provided this service free of charge.

53
54 Weighing these accomplishments and achievements over his 22 years
55 as a Suffolk County I.T. employee, characterizing Mr. Schlusser as
56 the prime instrument in causing the devastating cyber attack on

1 Suffolk County defies logic. This irony is compounded by the fact
2 that it was Mr. Schlussler that repeatedly sounded the alarm that
3 Suffolk was vulnerable to such an attack. To my knowledge, Mr.
4 Schlussler is a sole county I.T. employee who's been placed on
5 administrative leave, which began December 21 of 2022 and continues
6 to this day, now reaching a total of eight months. This injustice
7 has caused him the loss of potential wages and irreparable damage
8 to his reputation in the I.T. community, which is incalculable.

9
10 I pray this committee appreciate the devastation Mr. Schlussler has
11 suffered both personally and professionally and that a fair and
12 just resolution is forthcoming.

13
14 Secondly, at the last committee meeting, the question was raised
15 why the clerk didn't come to the legislature with our pleas for a
16 dedicated -- about cyber security. My office did come before Ways
17 and Means committee six times as resolution 1059, and it was tabled
18 six times. The official meetings of these minutes will show that
19 resolution 1059 was tabled on March 3, 2022 by Legislator Bontempi,
20 and I quote, "Don't believe this is a wise expenditure of our tax
21 dollars." That was seconded by Legislator Esteban. On March 24,
22 2022, it was tabled at the request of the Presiding Officer for,
23 quote, one cycle only, end quote. On April 7, 2022, it was tabled
24 at the request of the Presiding Officer for, quote, a cycle, end
25 quote. On May 12, 2022, it was tabled at the request of the
26 Presiding Officer for, quote, one more time, end quote. On June 2,
27 2022, it was tabled at the request of the Presiding Officer for,
28 quote, one more cycle. On June 16, it was tabled by the P.O.
29 citing several technological upgrades being considered and
30 expecting resolution in the very near future.

31
32 The initial tabling was surprising since in my 32 years in the
33 clerk's office, I can't recall a time when a clerk's resolution met
34 with repeated and unexplainable resistance. In fact, on numerous
35 occasions, the legislators have told me that they are inherently
36 aware that the clerk's requests are not frivolous and knowledgeable
37 that all upgrades in the clerk's office are directly correlated to
38 improved efficiency and better serving Suffolk's real estate
39 economy. They are also aware that as one of the largest revenue
40 producers in Suffolk County --

41
42 **CHAIRMAN PICCIRILLO:**

43 Madam Clerk, your three minutes are up. If you could just wrap up,
44 please.

45
46 **MS. PASCALE:**

47 I'm going to wrap up.

48
49 **CHAIRMAN PICCIRILLO:**

50 Thank you, Ma'am.

51
52 **MS. PASCALE:**

53 The clerk's office remits millions of dollars to Suffolk's general
54 fund. Regrettably, and despite the fact that on June 15, Mr.
55 Schlussler met with the P.O. to provide an in-depth justification
56 of our request, felt that the meeting went extremely well but

1 regretably resolution 1059 was again tabled on June 16. It was
2 passed without comment on July 21. The prior continual delay to
3 pass this resolution remains unexplainable to this day. I'd like
4 to thank this committee for the opportunity to provide an in-depth
5 insight into the qualifications and character of county clerk I.T.
6 director Peter Schlusser and for the ability to respond to your
7 inquiry regarding resolution 1059. Thank you.

8
9 **CHAIRMAN PICCIRILLO:**

10 Thank you, Madam Clerk. We have no more speakers signed up to
11 speak today. Is there anyone in the audience that would like to
12 address this committee? Seeing none, we are going to go into our
13 witness testimony. Mr. Bruno, would you come up to the table,
14 please. Raise your right hand.

15
16 (The witness was administered an oath by Chairman Piccirillo.)

17
18 **CHAIRMAN PICCIRILLO:**

19 Madam Clerk, just let the record reflect that the witness answered
20 in the affirmative.

21
22 The chair recognizes Mr. Bruno for an opening statement unless you
23 want to go right into questions.

24
25 **MR. BRUNO:**

26 Go right into questions.

27
28 **CHAIRMAN PICCIRILLO:**

29 You got it. The chair recognizes Mr. Donaghue.

30
31 (Examination by Hon. Richard Donaghue:)

32
33 Q Good morning, Mr. Bruno. Thank you for being here.

34 A Good morning.

35 Q So we've met previously, correct?

36 A Yes.

37 Q A number of weeks ago at this point, right?

38 A That's correct.

39 Q And you agreed to be interviewed by the committee
40 through their special counsel, correct?

41 A Yes.

42 Q And you did not require a subpoena, correct?

43 A No, I did not.

44 Q And you are not here today pursuant to a subpoena,
45 correct?

46 A No.

47 Q You are here voluntarily?

48 A Yes, I am.

49 Q Greatly appreciate your cooperation throughout this
50 process. Sir, I'm just going to, for purposes of brevity,
51 summarize your background and current position. And
52 obviously, feel free to correct me if I have any of this
53 wrong. If I understand correctly, you have been a county
54 employee for more than 20 years, right?

55 A That's correct.

56 Q And you have been in the clerk's office for more than

1 15 years, correct?

2 A Correct.

3 Q You are a member of the clerk's office I.T. team?

4 A Correct.

5 Q And you currently serve as an office systems analyst
6 four?

7 A Yes.

8 Q And that your primary responsibilities include
9 overseeing the clerk's office domain infrastructure; is
10 that right?

11 A That's correct.

12 Q But you do not have direct responsibilities for the
13 clerk's office fire wall?

14 A No, I do not.

15 Q Thank you, sir. I appreciate that background, and with
16 that I will turn it back over to the chairman so that the
17 committee members may ask questions.

18
19 **CHAIRMAN PICCIRILLO:**

20 Thank you, Mr. Donaghue. The chair recognizes Legislator
21 Mazzarella.

22
23 **LEG. MAZZARELLA:**

24 Thank you, Mr. Chairman.

25
26 (Examination by Legislator Mazzarella:)

27
28 Q Good morning, Mr. Bruno. I have five questions, and
29 I'll give them to you one at a time and allow you to
30 respond. Question number one is what is a "child domain"?

31 A A child domain is -- would be -- kind of self
32 explanatory. It would be the subdomain of the parent
33 domain, so we're -- there's county.suf and then there's
34 clerk.county.suf. The first part of it denotes the agency
35 and the child, so there might DSS.clerk -- that's
36 arbitrary, just just the example. There would be --
37 whatever it is, some domain in front of county.suf, and
38 that also means that some of the bigger function is done by
39 the parent domain so some of the domain control is on that
40 side of it, which would be the county.suf, which would be
41 the parent domain. The child domain would be responsible
42 for some of the local functions so I mean that's without
43 getting too into the weeds.

44 Q Thank you. Second question. Prior to the cyber attack
45 that took place in 2021 and 2022, was the clerk's domain a
46 child domain?

47 A Yes, it is.

48 Q Thank you. What was the parent domain? The child
49 domain was clerk's office, so what would be considered the
50 parent domain in that?

51 A County.suf, which would be DOIT, which would be the
52 department of I.T. for Suffolk County.

53 Q Okay. Thank you. Just generally, who was responsible
54 for security in the county?

55 A I guess they have like a broader security team. Some
56 of the members are Brian Bartholomew, Joanne Fisk. There

1 might be a few others. I can't think of his last time but
2 Nick is his first name. I can't think of his last name
3 right now.
4

5 **HON. DONAGHUE:** Is that Nick Spirodon?
6

7 **THE WITNESS:** Yes, correct.
8

9 Q Okay. Thank you for that. And who was responsible for
10 the security in the clerk's domain?

11 A I guess loosely, our network engineer, Christopher
12 Rizopoulos would monitor the local firewall and he would
13 review the Cortex alerts, forward them obviously. We were
14 all on an e-mail. There would be a DOIT security e-mail,
15 so when there were Cortex alerts or anything of that
16 nature, we would all be warned, but he was tasked with
17 reviewing them, I guess like a basic threat assessment and
18 they would be forwarded.

19 Q What was his title? Sorry.

20 A He's our network engineer and he's also office systems
21 analyst four.

22 Q Okay. Thank you. I have no further questions,
23 Mr. Chairman.
24

25 **CHAIRMAN PICCIRILLO:**

26 Thank you, Legislator Mazzarella.
27

28 (Examination by Legislator Piccirillo.)
29

30 Q Good morning, Mr. Bruno. How are you?

31 A Good.

32 Q My questions are going to be pretty in-depth and you
33 can take as much time as you need to answer them, okay?

34 A Sure.

35 Q Prior to the attack, what kind of visibility did the
36 Department of Information Technology have in the clerk's
37 domain?

38 A They had two different types. They had local accounts.
39 Two of their administrators, Vincent Cordiale and Tom
40 Bruno, both had clerk credentials with domain admin
41 privilege. Overall, their enterprise at -- they are an
42 enterprise administrator, which does give them basic
43 visibility but not -- wouldn't be domain privilege or they
44 wouldn't be able to add or remove member servers and things
45 like that, but they always had some form of visibility but
46 September '21, we gave them full user access as
47 administrators.

48 Q And as an administrator, what can and can't you do?

49 A As an administrator, you could remove and add member
50 servers, which would be domain controllers, DHCP servers,
51 basically any server, you would be able to create accounts,
52 delete accounts, change privilege on accounts, add
53 attributes to accounts, basically do just about anything.
54 Once you're an administrator, you have a lot of access at
55 that point.

56 Q And just generally speaking, yes or no, would you be

1 able to access county employee's e-mails, elected officials
2 e-mails.

3 A Yes, you could.

4 Q So the answer is yes; thank you. Were you the
5 administrator for the clerk's domain?

6 A Yes, I was at that point.

7 Q And what did that entail?

8 A Overall, we have kind of a -- I would say high end but
9 a more complicated structure. We have a big VMware
10 presence and a virtual presence, and that alone is a lot of
11 the management, along with the domain which would be --
12 basic responsibilities would be adding/removing servers,
13 maintaining the domain controls, maintaining DHCP servers,
14 maintaining the VMware infrastructure and how it relates to
15 domain itself. All things Microsoft related without
16 getting into the applications themselves, which entail
17 Windows, Windows servers, even some Linnex appliances and
18 some Linnex software as well.

19 Q Okay. And in that role, did you grant access to other
20 users?

21 A Yes, I did.

22 Q And who would that be?

23 A I mean, overall, a lot of people, but to be specific,
24 my own team, clerk I.T. and Hauppauge DOIT users, as I
25 mentioned earlier, Vincent Cordiale and Tom Bruno had full
26 domain privilege clerk accounts at the time of the attack
27 and prior.

28 Q Prior to the cyber breach being discovered on September
29 8, 2022, did you grant any DOIT personnel access to the
30 clerk's domain?

31 A No.

32 Q Why not?

33 A I wasn't -- if I was asked to grant anybody, I would
34 gladly do that. I never stood in any opposition to giving
35 any county I.T. person access. If I was asked, I would do
36 it.

37 Q Thank you. With that access, what could they see in
38 the clerk's domain?

39 A They could see our active director restructure. They
40 can see administrative tools which would include very deep
41 into the domain structure which would include all end
42 points, domain controllers, basically every flavor of
43 Windows server and right down into IPs which would be in
44 our DNS server. They could see just about everything, that
45 privilege.

46 Q Thank you. Just switching gears now to Tenable.
47 Tenable is a program that can scan and search for malware;
48 is that correct?

49 A Yes.

50 Q So again, prior to the attack, were DOIT personnel
51 given access to run Tenable scans in the clerk's domain for
52 malware?

53 A Yes.

54 Q Prior to the attack?

55 A Yes, they were.

56 Q Is there also a program called Veronis?

1 A Yes.
2 Q Are you aware of what does?
3 A I believe it's got a similar -- there are some
4 functions that Tenable has that overlap. It's almost like
5 a watchdog for creating like -- for user accounts being
6 created, for passwords being changed, things of that
7 nature.
8 Q Was that the operating in the clerk's environment?
9 A From what I know, yes.
10 Q And then who received the reports from Veronis?
11 A I think Peter Schlusser again from what I know. There
12 was some talk with Vin Cordiale about how that worked and
13 what it did. I'm not too familiar with it.
14 Q Fair enough. Cortex is also a program that detects
15 malware on user computers, right?
16 A Yes.
17 Q And was cortex deployed in the clerk's office domain?
18 A Yes, it was.
19 Q And who decided to use Cortex?
20 A I believe county I.T.
21 Q And Cortex is a Palo Alto product, correct?
22 A Yes, it is.
23 Q Do you recall approximately when Cortex was deployed in
24 the clerk's office domain?
25 A Probably I would say spring of '21, and it might have
26 even been prior but like a full scale rollout, where it
27 would just be on just about every endpoint, probably be the
28 spring of '21.
29 Q Following the deployment, did Cortex issue reports
30 about threats that it was detecting in the clerk's office
31 domain?
32 A Yes, it did.
33 Q And who did those reports go to?
34 A Well, we would get alerts not quite reports. Peter
35 Schlusser had asked for reports and some visibility, and
36 we were met with opposition.
37 Q From whom?
38 A From Brian Bartolomew. He kind of gave us the
39 impression that we didn't need to see that, it wasn't our
40 thing, so as these were coming in, these alerts, we really
41 never were able to dig into them, and there was multiple --
42 I don't have the e-mails in front of me, but I was part of
43 e-mails where this was raised. These concerns were raised.
44 Q So I would think it is your opinion that it hurt your
45 ability to move forward, that not being able to see this
46 information?
47 A Yes, very much.
48 Q Did the DOIT security team appear to understand what
49 the Cortex alerts were telling them?
50 A No, they did not. There were a few kind of impromptu
51 meetings where we would go through them and they would kind
52 of tell us it's fine, it was blocked, you're good. In
53 fact, Brian Bartholomew actually had said it's benign, it's
54 nothing to worry about. This was kind of the flavor of
55 what we would get. You know, there were, like I said, a
56 few quick meetings, and there was no resolution to our

1 security concerns.

2 Q In the two or three months leading up to 9/8/22
3 ransomware attack, were the number of Cortex alerts
4 increasing, decreasing, or remaining the same?

5 A Increasing, yes.

6 Q How many a day, if you could recall?

7 A Probably I would say under five but more than a few,
8 maybe in the three or four range.

9 Q Every day?

10 A Every day.

11 Q And what was the response from the DOIT security team
12 regarding these alerts?

13 A A lot of more of the same. A lot of it's okay, kind of
14 deal with it, it's fine. It was not the level of -- not
15 the heightened response we thought we would get.

16 Q Are you aware of a technology vendor named Presidio?

17 A Yes.

18 Q What do they do?

19 A I guess they are obviously an I.T. vendor. They
20 provide monitoring services through knock and sock, so the
21 network and the overall infrastructure. We were supposed
22 to -- again the exact dates and times might not be clear on
23 but we were supposed to be part of that, and and to my
24 understanding, we weren't, so we weren't getting the
25 monitoring that we were supposed to be getting.

26 A We were supposed to piggyback on their contract and get
27 some of the monitoring that they were providing to county
28 I.T., and to my knowledge, that never happened.

29 Q And that was set up through DOIT and the clerk's office
30 that you were supposed to get?

31 A Yes.

32 Q What was the county using Presidio prior to the 2021,
33 2022 cyber attack?

34 A I think for network monitoring.

35 Q And do you know what Presidio was supposed to be doing
36 on a regular basis?

37 A No, I did not.

38 Q Okay. Thank you. That concludes my questions.

39
40 **CHAIRMAN PICCIRILLO:**

41 The chair recognizes the presiding officer, Kevin McCaffrey.

42
43 **P.O. MCCAFFREY:**

44 Thank you, Mr. Chairman.

45
46 (Examination by Presiding Officer McCaffrey.)

47 Q Hello, Mr. Bruno. Thank you for coming today.

48 Just a couple questions. Just to give everyone an
49 overview, is it fair to say there are basically three data
50 centers in the county, Hauppauge, Building 50, Yaphank, and
51 the police department in Riverhead, second floor of the
52 clerk's office?

53 A Yes.

54 Q And what agencies operate in the data center in the
55 clerk's office in Riverhead?

56 A Clerk, the D.A., the sheriff. I think that's -- that's

1 it.

2 Q Okay. And who was ultimately responsible for the data
3 center in the clerk's office in Riverhead?

4 A County DOIT.

5 Q We talked about this previously. Can DOIT personnel
6 access the data center without permission from the clerk's
7 office I.T. team?

8 A Oh, yes, certainly.

9 Q Okay. And when did they obtain that access?

10 A I started 15 years prior, and for every day of my
11 career seeing DOIT personnel in and out of the data
12 center every day so I'm assuming it's at inception.

13 Q To clarify, not physical permission to enter the data
14 center?

15 A No.

16 Q Access to the --

17 A To the enterprise itself.

18 Q To the enterprise itself?

19 A That was Septemeber of '21.

20 Q That was after the breach, correct?

21 A That was after the Bitcoin mining operation, around
22 that time that the previous administrator was outed.

23 Q Let me just clarify. September 21 of which year?

24 A Septemeber '21, meaning September of 2021.

25 Q September of 2021. Okay. Thanks. And at that point,
26 they obtained full access or just view?

27 A No, they had full access.

28 Q So they had complete admin access so they could see
29 anything that anybody else could see in the system?

30 A Yes.

31 Q One other question about -- were you involved at all in
32 in preparation of I.T. upgrade requests from the clerk's
33 office?

34 A No, at that point, I wasn't in that position so no I
35 wasn't.

36 Q Okay. Thank you.

37
38 **HON. DONAGHUE:** Mr. Chairman, if I could just ask one
39 question for clarification.

40
41 Mr. Bruno, you mentioned a Thomas Bruno at DOIT. He was
42 one of the two individuals to whom you gave full
43 administrator access.

44
45 **THE WITNESS:** Yes.

46
47 **HON. DONAGHUE:** You and he are not related in any way,
48 correct?

49
50 **THE WITNESS:** No, no relation. We tease each other but no.

51
52 **HON. DONAGHUE:** Okay. I wanted to make sure that was clear
53 from the record. Thank you.

54
55 **CHAIRMAN PICCIRILLO:**

56 Thank you, Mr. Donaghue. Are you done, Mr. Presiding Officer.

1 **P. O. MCCAFFREY:**

2 Yes.

3
4 **CHAIRMAN PICCIRILLO:**

5 The chair recognizes Legislator Anker.

6
7 (Examination by Legislator Anker).

8
9 Q I want to thank you, Jason, for being here today so we
10 can get a better understanding of what happened and where
11 we need to go? Can you explain the iron key?

12 A Okay. So the iron key is an encrypted detachable drive
13 that for us stored our passwords. So I don't have -- even
14 from the reports, we don't quite know how it was breached,
15 but our assumption is during unlocking it to grab data,
16 passwords and the like, it was somehow hacked, copied, but
17 we didn't store passwords on the network. That key is
18 encrypted while it's attached and has to be unlocked to be
19 used, so that was essentially the function of the iron key
20 to store passwords off the network most of the time but
21 pretty much all of the time with the exception of when we
22 were accessing them.

23 Q So is it a secure way of storing these credentials?

24 A In light of current events, probably not the most
25 secure. There's a lot of services now in the last few
26 years that have come out. There's a vendor, Last Pass, and
27 there's some other agencies and companies that do this
28 where you can really, really deeply secure passwords, and
29 from what I know I think county DOIT is now using some of
30 this technology to secure passwords.

31 Q So do you know what they are doing now, what DOIT is
32 using now to to store users' credentials?

33 A I believe it's most likely Last Pass or it could be
34 another vendor very similar, and it's whatever the industry
35 standard is. I know DOIT is very on the level with that,
36 so whatever is the best, they are probably going to be
37 using it.

38 Q Are you aware that Palo Alto report claims with the
39 hackers here stole credentials from the iron key device
40 that you were using?

41 A Yes, I am aware of that.

42 Q Thank you.

43
44 **CHAIRMAN PICCIRILLO:**

45 Thank you so much, Legislator Anker.

46
47 Just to follow up on the last question Legislator Anker
48 asked, if that's the case that they had the credentials
49 from the iron key, what happened post that knowledge coming
50 to light.

51
52 **THE WITNESS:**

53 You mean action on part of the clerk I.T. team.

54
55 **CHAIRMAN PICCIRILLO:**

56 Yes.

1
2 **THE WITNESS:**

3 We removed that file. That was taken out of the network
4 and the key still exists. We still have access to the iron
5 key itself, but whatever was exfiltrated into and then left
6 in plain sight on our devices was removed on our
7 enterprise.

8
9 **CHAIRMAN PICCIRILLO:**

10 Thank you so much. The chair recognizes the minority
11 leader, Legislator Richberg.

12
13 **LEG. RICHBERG:**

14 Thank you, Mr. Chair.

15
16 (Examination by Legislator Richberg).

17
18 Q Good afternoon. Sorry. Good morning. We haven't been
19 here that long. I apologize. So in your view, what, if
20 anything, made the county vulnerable to attack?

21 A Probably a few things. Now, I can't speak directly but
22 it would see there was some porosity in the firewall.
23 Things were probably open that shouldn't have been. I'm not
24 saying from a clerk's standpoint, but I just mean overall.
25 I mean obviously we've upgraded recently. The firewalls
26 have been upgraded. Now we have different equipment and
27 even at the edge and the department level so there's been
28 an improvement there and overall there was a lot of legacy
29 software, and what I mean by that is -- and I speak for our
30 agency and the whole county, there was lot of
31 out-of-support operating systems like server 2008,
32 server 2003. There were no remediations. These things
33 were end of life, and they existed. I was part of
34 meetings, some security meetings leading up to the attack
35 and there were a lot of agencies that had quite a few
36 vulnerable devices.

37 Q So can I just ask -- you said server 2000 and then you
38 said 2008?

39 A Three and eight, yes.

40 Q 2003 and 2008?

41 A Yes.

42 Q And what year are we talking?

43 A So this is in the last few years, so yes, 20-year
44 legacy devices.

45 Q Has there been an update to any?

46 A Yes.

47 Q Are there any updates server -- is there a server 2022?

48 A Yes, there is. I mean most shops are using 16 and 19,
49 which is in full support so there's still quite a bit of
50 support still left in those other operating systems.

51 Q And in your opinion, when things are end of life and
52 end of support, that should be a moment when we update or
53 upgrade?

54 A Yes.

55 Q So how would you describe the working relationship with
56 DOIT and the clerk's I.T. office?

1 A I would say it was a decent relationship. I wouldn't
2 say adversarial. The former administrator at times, I
3 sensed there was some bad blood, and there wasn't -- I feel
4 once he had left, the relationship had gotten better and
5 there was better communication .

6 Q Who's the former administrator?
7 A Chris Naples.

8 Q So once Chris Naples left, there was a better working
9 relationship?

10 A Yeah, I felt that, yes.

11 Q So do you think the DOIT security team had -- well, let
12 me go back. You had mentioned before that folks had --
13 there were folks who were given admin access?

14 A Yes.

15 Q And those folks were from the DOIT team?
16 A Yes, they were.

17 Q Okay. And you in your role, could you see when they
18 are active inside the clerk's network?

19 A We could run -- we could run reports, basic power shell
20 scripts that would tell us when the last time the account
21 was logged on. Because our relationship was decent and we
22 communicated with them on a daily, weekly basis, we weren't
23 running the reports to see who was on their level to see if
24 there was accessing, to see if there was local people
25 accessing it so I don't know how much they might've been in
26 the network.

27 Q So do you believe folks who you were working with had
28 the proper skills, training, and what have you to work
29 cooperatively with you and your team?

30 A I think on an infrastructure level, yes, but on a more
31 focused security level, maybe not security.

32 Q When we talked about the iron key, you had mentioned
33 that with one of my colleagues before, and so the iron key
34 was a physical device at one point in time?

35 A Yes, it was.

36 Q Okay. It was a physical device that was -- I know
37 computers and softwares but maybe the folks around -- so
38 that physical device would be plugged into a computer?

39 A Yes, it would.

40 Q And then what would happen?

41 A You would only plug it in if you needed it and then at
42 that point, you would decrypt it, unlock it, get the
43 whatever work product you need, which it could be a
44 password, it could be anything you would want safe, and
45 then you would unplug it, and then that would be it. It
46 would be off the network. It's encrypted when it's -- you
47 know, all the time. It's the only time you could see files
48 is when you unlock it.

49 Q And so anybody who would get access to your computer or
50 to the servers could see the access that the iron key had?

51 A Yes, theoretically, that's possible, yes.

52 Q Were there any scans done prior to putting the iron key
53 in?

54 A Well, we had -- at the time, we had Cortex, which was a
55 live product, a live scan product. We also had even some
56 local virus protection as well. We had McAfee, like an

1 enterprise level anti-spyware, anti-malware product as
2 well.

3 Q Okay. You mentioned Cortex. Cortex was sending
4 alerts?

5 A It was, but there were things we could see that in it
6 missed. I don't think it was catching everything, and we
7 weren't able to analyze the alerts that we did get, so we
8 weren't really able to get deeper than what the alert gave
9 us. So there was an administrator or console to it, a
10 panel that we had no access to. When we were using -- some
11 years back, we had been using our own virus product. We
12 had a policy orchestrator that we could see all the time
13 and be lacked into all the time.

14 Q So who would see the alerts then?

15 A I believe -- it could have either been somebody working
16 though Palo or possibly Presidio, but I remember we had
17 contacted Nick Spirodon, and he said he would have to
18 contact the vendor to get more information because they had
19 access to the console, but it was not as robust as they
20 might want, and there was an issue, I guess, of security
21 based on the fact that PD and DS -- you know, the sheriff,
22 there was other departments using technology so they
23 explained it to us that we can't give you access to look at
24 the stuff because this is very sensitive stuff.

25 Q And you had said that you thought it would be a
26 heightened response? What was the heightened response that
27 you were looking for?

28 A Well, to dig deeper into some of these alerts and to
29 really do a deep dive into the firewalls and into the
30 network because this thing obviously was swimming around,
31 you know, for some time.

32 Q You had said that you had mentioned this to your
33 supervisors and the like and said, listen, I'm seeing these
34 things and there are a number of meetings in reference to
35 them?

36 A Yes, that's correct.

37 Q So how would you grade the remediation efforts? Let's
38 take a step back. How would you grade the response and the
39 remediation efforts?

40 A I think the response was decent, and when I say that by
41 just the level of personnel that we saw in our facility.
42 Everyone was helpful and we were all working towards the
43 same goal. I think the initial response was good. I don't
44 feel that way about the remediation. We were able to
45 provide services within a few weeks to the title community.
46 I mean, it was back in the building. There was no remote
47 ability at that point, but we did have the title community
48 up and running in a few weeks. What ensued was the
49 timetable to me, it seemed a little bit out of whack as far
50 as how long it took. I know there's a lot in the media and
51 a lot that's been said that the clerk might have been
52 obstinate and fought to stop people from looking, and I
53 could speak for myself and my immediate team where we did
54 the best of our ability to grant people access. We had --
55 I guess there was a remediation team, specific remediation
56 team that we started working with in October, and we gave

1 them every right they needed to do what they needed to do
2 inside our enterprise. They had jump box devices which
3 would mean they had like a PC in our data center that would
4 grant them access, and once we gave them user credentials
5 which we granted them full admin privileges to do what they
6 needed to do, they were allowed to go through it, and we
7 worked with them hand and glove, and they would send us
8 lists. They'd be like we need this, this, and this done,
9 get rid of this, do this, and we would do it and say what
10 do you need next. There's been some e-mails to support a
11 lot of that, so that part of the remediation I don't think
12 went very well, the actual rebuilding of it.

13 Q So you believe the initial response was good?

14 A Yes.

15 Q The remediation probably could have been better, in
16 your opinion?

17 A Yes.

18 Q So do you have any concerns relating to the fact that
19 some vendors were brought in to remediate the attack or
20 some companies were supposed to be providing security to
21 the county in advance?

22 A Yeah. I mean it does seem like a conflict of interest
23 even from a technical standpoint that if -- I don't think
24 even if it wasn't a -- say it had nothing to do with
25 firewalls or anything else, but they were providing our
26 anti-malware technology as well, and for them to do the
27 general audit of the attacks doesn't seem to make sense to
28 me.

29 Q So in the remediation were -- you know, I know staff
30 from all over the county was working seven days a week,
31 overtime. Was there a staff called in for that as well?

32 A Yes. We weren't mandated. I think DOIT was -- there
33 was some type of mandate through the executive level. We
34 weren't under a mandate but we worked, and there was no
35 ability to work remotely and based on the amount of extra
36 hours that I and a few of my team members logged, we were
37 there quite a bit.

38 Q So but you guys worked on weekends and during the week?

39 A Yes.

40 Q Off hours?

41 A Yes, we did; nights, after 4:00, after 5:00, yes.

42 Q Was Palo Alto granted access to the clerk's office?

43 A Yes, they were.

44 Q And when?

45 A We were given formal requests roughly in I would say
46 either late September or early October.

47 Q What year?

48 A Of '22.

49 Q So in response?

50 A Yes.

51 Q I'm going to take a step. I apologize. The Log4J. Do
52 you know what Log4J is?

53 A Yes. It's a general exploit. It's through debugging
54 code, and it gives remove users access to do all kinds of
55 terrible things really.

56 Q Okay. So did you have -- were you working on the

1 remediation for that when it came out?

2 A Yes, I was.

3 Q Okay. And not to go into too great detail, but was
4 that communicated with other folks, with other admins, and
5 the like?

6 A Yes, it was. We move it up the chain, yes.

7 Q So when was it remediated in your network?

8 A We began the remediation roughly when the county
9 recognized it as a whole. It was continuing to be worked
10 on. We were patching our servers.

11 Q The servers that were --

12 A Some of them that -- we got rid -- we were told it was
13 okay to have 2008, but we needed to obviously patch, so we
14 were working through the patches, which there were quite a
15 bit. We removed -- if we had anything prior to '08, it was
16 removed. We got pretty much into a good place, and there
17 were a few standout servers and devices that were not
18 remediated.

19 Q So there were some device that we did not -- that your
20 team was not able to get to?

21 A Yes.

22 Q With the Log4J?

23 A Yes.

24 Q Were those associated with any device that had access
25 or would be used with the iron key?

26 A No. This would be on a server level. This wasn't on
27 an endpoint.

28 Q Okay. Thank you very much.

29
30 **LEG. RICHBERG:**

31 Thank you Mr. Chair.

32
33 **CHAIRMAN PICCIRILLO:**

34 Thank you, Minority Leader Richberg. I just have one
35 follow up.

36
37 **THE WITNESS:**

38 Sure.

39
40 **CHAIRMAN PICCIRILLO:**

41 Legislator Richberg, the minority leader, brought up that
42 the same company was doing the audit that provided the
43 technology. Did you raise an alarm, or did anyone that you
44 spoke to raise an alarm about this.

45
46 **THE WITNESS:**

47 Yes, we did. I brought that to my supervisors, and they
48 had brought it to the proper people, but it didn't seem
49 like anybody was concerned from that side of it, if we're
50 going to say, County DOIT didn't seem to be concerned with
51 the fact that we were using the same company -- let's say
52 Palo Alto -- and then it was as well as the remediation and
53 the audit was all from one company. We all had issues with
54 that.

55
56 **CHAIRMAN PICCIRILLO:**

1 Thank you. I appreciate that. The chair recognizes Mr.
2 Donaghue.

3
4 (Examination by Hon. Donaghue)

5
6 Q Just two brief follow-ups. First, you mentioned
7 earlier when discussing the iron key that your
8 understanding now is that DOIT stores its credentials via
9 Last Pass or some similar technology, correct?

10 A Yes.

11 Q And that particular technology was not available a
12 couple of years ago, right?

13 A No, I don't think so, no.

14 Q And so if you go back to the time prior to the breach,
15 do you know how DOIT was storing their credentials?

16 A I believe it was plain text on the network somewhere.

17 Q So their credentials were sitting on their network,
18 correct?

19 A Yes.

20 Q And your credentials were in this external encrypted
21 hard drive?

22 A Yes. Yes, it was.

23 Q One final question. The DOIT security team you
24 mentioned, do you think that they had staffing and the
25 skills necessary to do their job?

26 A No, I don't believe that.

27 Q Thank you.

28
29 **LEG. ANKER:**

30 I have a question.

31
32 **CHAIRMAN PICCIRILLO:**

33 Thank you, Mr. Donaghue. Legislator Anker.

34
35 (Examination by Legislator Anker:)

36
37 Q Going back to the iron key and the last question I had
38 asked you, Palo Alto again claims that the hackers stole
39 credentials from the iron key device that you were using.
40 When we were doing all the investigation, did they have
41 that iron key -- did they have your iron key to go in and
42 really understand who these hackers were and get more
43 information from your iron key?

44 A We would gladly give it. They never asked us for it.
45 Maybe something should have been offered forward, but we
46 weren't holding it. There was no refusal to give that
47 technology to Palo's auditing team. They didn't ask for
48 it. We didn't fight any request. We can give it to them
49 now.

50 Q But isn't that the main reason the county got hacked
51 was because of the iron key that got compromised?

52 A Well, from that Palo report, they had been in much
53 earlier, sometime from November '21, and they had actually
54 used my account and another administrator's account to
55 start forging accounts, so they already were inside,
56 already had the keys to the kingdom. That might have been

1 exfiltrated, I think, from the Palo report and sold on the
2 dark web, but from my understanding, they were around for a
3 good eight months prior to that with full access as
4 administrators.

5 Q Is there a new technology that will create a stronger
6 security system?

7 A Yeah. I believe what the county is working towards now
8 now. They're using multifactor authentication. They are
9 using really good practices and domain control, active
10 directory. They are using Tenable to its fullest ability.
11 They can see every login, every account created. It's on a
12 constant -- it's being monitored on a constant basis, so I
13 think overall there's a multitude of technologies they're
14 working towards to create a much safer environment for the
15 enterprise.

16 Q Thank you.

17 A You're welcome.

18
19 **CHAIRMAN PICCIRILLO:**

20 Thank you, Legislator Anker. Legislator Richberg.

21
22 **LEG. RICHBERG:**

23 Thank you.

24
25 (Examination by Legislator Richberg:)

26
27 Q Thank you, Mr. Bruno, and I like your name, first name.
28 So the servers were end of life as of when?

29 A '08 I think times out late '21.

30 Q And 2003?

31 A That was probably out of support at least seven or
32 eight years prior, I would think.

33 Q So like 2011, 2012.

34 A Yeah, yeah. I mean, they give it a 10- to 12-year
35 life.

36 Q Okay. So when your office would do the patches, how
37 would the patches work with servers that are out of date?

38 A They were -- Microsoft was releasing -- they still were
39 releasing security patches for '08, server 2008; '3, no,
40 but we didn't have any '3 in the working enterprise. Like
41 we weren't using -- we might have had some end of life
42 decommissioned versions of '03, but they weren't really
43 enterprise -- probably weren't connected to the network.
44 '08, yes, there was a healthy amount of '08 in our
45 enterprise, and when I was on those meetings, quite a few
46 other enterprises had a lot of '08 in their --

47 Q And so with that, so when you did the patches for the
48 Log4J and any other patches you would do, there was a
49 likelihood that some of our servers and some parts of our
50 network would not have been protected.

51 A It's a possibility, yes.

52 Q Okay. Thank you.

53
54 **CHAIRMAN PICCIRILLO:**

55 Thank you, Mr. Richberg. Presiding Officer McCaffrey and then
56 Legislator Mazzarella.

1
2 **P.O. MCCAFFREY:** Thank you, Mr. Chairman.

3
4 (Examination by Presiding Officer McCaffrey:)

5
6 Q Thank you, again, Mr. Bruno. Just a follow up to the
7 out-of-date services that were beyond their useful life and
8 I know you mentioned before that you were not specifically
9 involved in the request to the legislature or the
10 administration for any type of upgrades for infrastructure,
11 but were you aware that there may have been a request to
12 upgrade those servers that was denied or?

13 A Yeah. From what I know just generally working in the
14 agency, yes, yes, I've heard of such things.

15 Q So you're under the impression that there was specific
16 requests for upgrading these out-of-life servers, the '03
17 and the '08, and that they were specifically denied by the
18 legislature or the -- I forgot the name of the --

19
20 **CHAIRMAN PICCIRILLO:**
21 I.T. Steering Committee.

22
23 Q The I.T. Steering Committee?

24 A From what I know, it was more related to firewalls I
25 think, the local firewalls, and these servers that are in
26 question, some of the older stuff is -- exists in almost
27 like a virtual environment. It's not an actual like a
28 physical device. It would be kind of in the ether. It
29 exists logically but not physically, so those endpoints
30 could be remediated pretty easily in a sense of you just go
31 and you click a button, it's off. So I think my agency,
32 the general concern was with the department firewalls was
33 what I think they were trying to get requests for to my
34 knowledge.

35 Q Okay. So you're not aware -- because I thought I heard
36 two things here. Are you aware of a request to upgrade
37 those '03, '08 servers which beyond their live and that
38 they were denied either by the county legislature committee
39 or from the I.T. steering committee.

40 A No, I'm not aware.

41 Q Okay. So you're not aware that a request was made and
42 was denied by either one of those to upgrade those?

43 A No, I'm not aware.

44 Q Okay. And to the firewall, you said you were aware of
45 a request to upgrade the firewalls?

46 A Yes.

47 Q And that was -- right now you had the existing
48 firewall, there was a -

49 A A sonic wall.

50 Q A sonic wall. Okay. And sonic wall, and that was the
51 one that you were trying to replace?

52 A Yes, that I remember.

53 Q Okay. And when was those requests made; do you know?

54 A That was, I think -- I think that was June '21, I
55 believe, 2021.

56 Q And that was probably to the I.T. steering committee?

1 A Yes.
2 Q Okay. Very good.

3
4 **P.O. MCCAFFREY:**
5 Thank you, Mr. Chairman.

6
7 **CHAIRMAN PICCIRILLO:**
8 Thank you, Mr. Presiding Officer. Legislator Mazzarella.

9
10 **LEG. MAZZARELLA:**
11 Thank you, Mr. Chairman.

12
13 (Examination by Legislator Mazzarella:)

14
15 Q Mr. Bruno, I just want to take you back to a statement,
16 what you referred to as "keys to the kingdom" and the
17 compromising of such. Was that statement used in
18 hindsight? You said something like the keys to the kingdom
19 were already compromised or the bad actors had those keys
20 already?

21 A It was I guess a turn of phrase. When I meant keys, I
22 meant that not so much the iron keys or passwords, I meant
23 that they somehow infiltrated the network or the enterprise
24 in late -- I think it was -- from the reports I read, the
25 Palo reports and other forensics that they had been in the
26 network I think November of 2021 and I think in December is
27 when they had started to make forged accounts. So meaning
28 the keys to the kingdom, meaning they had my level of
29 access already. As a lead administrator, they already had
30 that access well, well before the iron key was hacked and
31 then exfiltrated. That's just me going by what I saw on the
32 report.

33 Q Okay. So you're making that inference based on the
34 report?

35 A Yes.

36 Q I guess what I'm trying to get at is when did it become
37 clear to you or your department that that had taken place?
38 I mean you're making these statements based on a report but
39 --

40 A Yes, it's hindsight, like you're saying. It's post
41 attack.

42 Q Thank you.

43
44 **CHAIRMAN PICCIRILLO:**
45 Thank you, Legislator Mazzarella. Does any other legislators have
46 questions? Legislator Anker.

47
48 (Examination by Legislator Anker:)

49
50 Q I'm stuck on the iron key again knowing that -- well,
51 not knowing but understanding, perhaps, that the hackers
52 got in through your iron key, what happened to your iron
53 key? Did you delete it? Did you remove it? What did you
54 do to the iron key?

55 A I still have it. It's still in my possession,
56 available for review or whoever, whatever any agency wants

1 it. Yeah, we still have it.

2 Q But did you have to remove it in order to secure the
3 system?

4 A No.

5 A At a certain interval which is set, it should lock on
6 its own, and, like I said, to be exfiltrated possibly, they
7 were remotely in the system and they did have access to my
8 account and any account like mine so at that point, it was
9 probably when it might've been copied, and again, this is
10 me looking back. I don't actually know.

11 Q Did it happen again? I don't remember the platform
12 that you were using but the clerk's office that you were
13 installing or upgrading software for security, how did
14 those two intertwine, the issue of the compromised iron key
15 and the upgrade of the security system at the clerk's
16 office?

17 A I would believe they would be unrelated. To upgrade
18 most, if not all, servers, my level of access and people on
19 my team wouldn't need passwords. That might be for maybe
20 we would be looking at a specific physical server we don't
21 use very often or we're looking for a service account
22 password again because we maybe needed to reset the account
23 or do something liking that, so I mean it wouldn't happen
24 100 times a day, but it would happen frequently enough that
25 we would need access to that key.

26 Q But you're saying it was not deleted?

27 A No.

28 Q It's still around?

29 A I still have it, yes.

30
31 **LEG. ANKER:**

32 Thank you, Mr. Chair.

33
34 **CHAIRMAN PICCIRILLO:**

35 Thank you, Legislator Anker. The chair recognizes that minority
36 leader.

37
38 **LEG. RICHBERG:** Thank you, Mr. Chair.

39
40 Q So you still have the iron key. Was it removed at any
41 point in time from the environment?

42 A It has not been plugged in since, no. It's been
43 completely -- I mean, it's not been -- we're not using it.

44 Q Was anybody from the incident response team told about
45 the iron key?

46 A We let them know we had that technology, yes, that we
47 had an internal encrypted device that we use to store
48 passwords.

49 Q Was that during the response or was that?

50 A Yes, that was during the response. Well, that was -- I
51 guess, yeah, I guess I'd consider that the response, yeah.

52 Q Do you have a ballpark of time? It sounds like you
53 have timeline in your head.

54 A Well, I'm just thinking if it's response verse
55 remediation.

56 A I would say maybe late September of 2022.

1 Q So that's when you had let them know about it?
2 A Yes.
3 Q Okay.
4 A When the response team was at the enterprise.
5 Q All right. Thank you.

6
7 **LEG. RICHBERG:**

8 Thank you, Mr. Chair.

9
10 **CHAIRMAN PICCIRILLO:**

11 Thank you, Mr. Minority Leader. The chair recognizes Mr. Donaghue.

12
13 (Examination by Mr. Donaghue:)

14
15 Q So, Mr. Bruno, just to clarify some of these points on
16 the iron key to back up to the fundamentals, the iron key
17 is essentially a thumb drive, right?

18 A Yes.

19 Q On that thumb drive, there are credentials meaning
20 passwords?

21 A Yes.

22 Q And as a network administrator, you need access to
23 those in case you need to go into the system and do
24 something that affects a user's access?

25 A Yeah, in essence, yeah.

26 Q So when you plug it into your laptop or your desktop
27 computer, that file is now accessible by the network
28 itself, right?

29 A Yes.

30 Q And when you pull it out, it's not accessible?

31 A Yes.

32 Q So when it's removed, no one is can get those pass
33 words, right?

34 A Right, correct.

35 Q And the device itself was encrypted, correct?

36 A Yes. So only if you had the password could you unlock
37 it and use it on a different device, P.C., laptop.

38 Q And so if I understand your testimony today correctly,
39 what you're saying is that while the Palo Alto report
40 indicates that that hackers were able to access certain
41 credentials from your version of the thumb drive. They had
42 already been in the system for many months prior to that?

43 A Yes.

44 Q And they had administrator level access in the system
45 prior to that?

46 A Yes, they did.

47 Q And so this might have been useful to them, but that's
48 not the way they initially accessed the county system?

49 A No.

50 Q And you indicated that these thumb drives still exist.
51 Have the passwords that were stored on those thumb drives
52 been changed?

53 A Yes, they're all different, yes.

54 Q So even if someone could access it, even if they could
55 get through the encryption, the data that's sitting on
56 those thumb drives would be virtually useless today?

1 A Yes, yeah. Every single -- in fact, we went through
2 multiple changes. We had changed password, I would say,
3 three, possibly four times in the last -- since the
4 remediation.

5 Q Thank you very much.

6
7 **CHAIRMAN PICCIRILLO:**

8 Presiding Officer.

9
10 (Examination by Presiding Officer McCaffrey:)

11
12 Q Just to follow up, Mr. Bruno, I would assume that
13 everybody now has multifactor authentication, correct?

14 A Yes, correct.

15 Q And just to clarify one more thing. So going back to
16 when the Palo Alto remediation team came in, when were they
17 given access again to the clerk's office? I thought you
18 said late September, early October.

19 A That's correct, yes.

20 Q Is it as soon as they requested it, they were granted
21 it?

22 A Yes, and I'm one of the head administrators. There was
23 never any order for me to deny them, and I did not. I
24 created -- we created multiple credentials for them with
25 administrator access to do remediation as they saw fit.

26 Q And as soon as they asked for any access to the system
27 in any way, whether it be physical access into the clerk's
28 office or remotely through administrator credentials, at no
29 time was that access denied or delayed?

30 A Yes.

31 Q Thank you.

32
33 **CHAIRMAN PICCIRILLO:**

34 Thank you. Any further questions? In seeing none. Mr. Bruno,
35 thank you for your testimony today. We appreciate you coming and
36 being honest with this committee. You may be called back in the
37 future, just for your own records, okay?

38
39 **THE WITNESS:**

40 Okay.

41
42 **CHAIRMAN PICCIRILLO:**

43 Thank you very much. We appreciate it. Mr. Donaghue, you have
44 anything else for the committee.

45
46 **HON. DONAGHUE:**

47 Nothing further, Mr. Chairman. I know the committee is in the
48 process of scheduling the next public hearing, and we hope to have
49 the two witnesses who are not here today at that hearing. Thank
50 you.

51
52 **CHAIRMAN PICCIRILLO:**

53 Thank you, Mr. Donaghue.

54
55 Seeing no further business in front of this committee, we stand
56 adjourned.

(The meeting was adjourned at 10:37 a.m.)

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