Page 1 1 2 UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD 3 4 CISCO SYSTEMS, INC.,) Petitioner, 5) 6) CASE NO. IPR2018-01386 vs. 7 CENTRIPETAL NETWORKS,) U.S. PATENT NO. 9,565,213 INC., 8 Patent Owner.) 9 10 11 12 13 14 15 16 TELEPHONIC DEPOSITION OF MICHAEL GOODRICH 17 ATLANTA, GEORGIA 18 JULY 17, 2019 19 20 21 22 23 24 REPORTED BY: TANYA L. VERHOVEN-PAGE, CCR-B-1790 25 JOB NO: 164504

	Page 2	Page 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	July 17, 2019 12:41 p.m. Telephonic deposition of MICHAEL GOODRICH, held at the offices of Merchant & Gould, 191 Peachtree Street, Atlanta, Georgia before Tanya L. Verhoven-Page, Certified Court Reporter and Notary Public of the State of Georgia.	1 APPEARANCES OF COUNSEL 3 On behalf of the Petitioner: 5 MERCHANT & GOULD 191 Peachtree Street Northeast 6 Atlanta, GA 30303 BY: JEFFREY BLAKE, ESQ. 7 8 9 10 On behalf of the Patent Owner: 11 KRAMER LEVIN NAFTALIS & FRANKEL 1177 Avenue of the Americas 12 New York, NY 10036 BY: JEFFREY PRICE, ESQ. 13 (By Telephone) 14 15 16 17 18 19 20 21 22 23 24
_	Page 4	Page 5
1 2 3 4	I N D E X WITNESS: MICHAEL GOODRICH	1 M. GOODRICH 2 ATLANTA, GEORGIA; WEDNESDAY, JULY 17, 2019 3 12:41 P.M. 4
5 6 7 8 9 10 11 12 13	(By Telephone) Examination Page BY MR. BLAKE 5 BY MR. PRICE 132 BY MR. BLAKE 140 EXHIBITS: (None offered.)	 5 Thereupon 6 MICHAEL GOODRICH, 7 called as a witness, having been first duly sworn, 8 was examined and testified as follows: 9 10 EXAMINATION 11 BY MR. BLAKE: 12 Q Good morning, Dr. Goodrich. My name is 13 Jeff Blake. I am an attorney at Merchant & Gould, 14 and I work out of our Atlanta office, and I represent
14 15 16 17 18 19 20 21 22 23 24 25		 the petitioner in this IPR2018-01386, and I'm representing Cisco Systems, Inc. It's nice to meet you. A Nice to meet you, too. Q Can you hear me okay? A Yes. MR. BLAKE: Okay. First, I'd like to start by just stating for the record that we are conducting Dr. Goodrich's deposition today by telephone with myself and a court reporter, Tanya Page, located

2 (Pages 2 to 5)

	Page 6		Page 7
1	M. GOODRICH	1	M. GOODRICH
2	here in the Atlanta offices of Merchant &	2	your opinions in this matter?
3	Gould, and Dr. Goodrich is located out in	3	A Yes.
4	California on the other end of the line,	4	Q Is there anything you'd like to change
5	and he is represented there by counsel	5	about the Declaration?
6	Jeffrey Price of Kramer Levin, who	6	A In reviewing it yesterday with counsel, I
7	represents the patent owners, Centripetal	7	noticed a few typos, but I believe those are going to
8	Networks, Inc.	8	be clear from context. So other than that, I don't
9	So, Jeff, if we could start out by	9	have any substantial changes that I would like to
10	giving Dr. Goodrich a copy of his	10	make at this time.
11	Declaration, Exhibit 2004, in the IPR.	11	Q Well, if, as we're discussing anything
12	MR. PRICE: Okay. He has it in	12	today, you come across the typos, you can feel free
13	front of him.	13	to point them out to me and we'll make a note of
14	BY MR. BLAKE:	14	them, but otherwise I'll consider it that the
15	Q Dr. Goodrich, do you understand why	15	substance of your Declaration remains the same; is
16	you're here today?	16	that fair?
17	A I believe so.	17	A Yes, that sounds fair to me.
18	Q What's	18	Q Okay. I'd like to start, Dr. Goodrich,
19	A I believe I'm here to be deposed with	19	by looking to Paragraph 216 of your Declaration,
20	respect to this Declaration that is in front of me	20	which is on page 106.
21	now.	21	A I'm there.
22	Q It's a Declaration that you provided; is	22	Q In Paragraph 216, do you see a reference
23	that correct?	23	to Centripetal's QuickThreat Gateway?
24	A Yes, that's correct.	24	A Yes.
25	Q Does the Declaration accurately represent	25	Q Okay. Could you explain to me what that
	Dage 9		
			Dage 9
	Page 8		Page 9
1	M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH is?	2	M. GOODRICH intelligence gateway product or RuleGate product?
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2 3 4 5 6 7	M. GOODRICH is? A So that's something that I cite from this Exhibit 2007, where it summarizes: The QuickThreat Gateway appliance performs analytics and provides threat alerts by leveraging Centripetal Network's QuickThreat manager solution, which correlates and	2 3 4 5 6 7	M. GOODRICH intelligence gateway product or RuleGate product? A No, I have not. Q Had you ever heard of it before this IPR? A I believe it came up in a trial that I was a part of last year, as I recall. It was mentioned as a part of the technology that
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3 (Pages 6 to 9)

	Page 10		
1	M. GOODRICH	1	
2	Does that sound right to you?	2	date o
3	A Yes, that is accurate. Wait. Say the	3	А
4	dates again?	4	Q
5	Q Sure. Well, your Declaration in	5	Parag
6	Paragraph 46 says August 16th, 2014.	6	'213 p
7	A Yes, that's correct.	7	the pa
8	Q Okay. Just one second.	8	2014,
9	MR. BLAKE: Jeff, could you provide	9	A
10	Dr. Goodrich with a copy of Exhibit 1001,	10	Q
11	which I believe is United States Patent	11	Ă
12	No. 9,565,213.	12	menti
13	MR. PRICE: Yes. He has it in	13	Q
14	front of him.	14	Ă
15	MR. BLAKE: Okay.	15	11
16	BY MR. BLAKE:	16	Parag
17	Q Dr. Goodrich, do you recognize this	17	Q
18	patent?	18	April
19	A Yes. This appears to be the patent I	19	npm
20	referred to as the '213 patent.	20	call th
21	Q And do you see in the left-hand column of	21	A
22	the front page, by line number 22, where it says	22	Q
23	Filed April 16th, 2014?	23	patent
24	A Yes, I see that.	24	A
25	Q Do you understand that to be the filing	25	here t
	Page 12		
1	M. GOODRICH	1	
2	Q Have you ever, at any point in time, used	2	А
3	any of their products?	3	what o
4	A No.	4	what
5	Q Have you ever implemented any of their	5	my, ye
6	products in any way?	6	produ
3 7	A Not to my recollection as I sit here	7	Q
8	today.	8	consu
9	Q In 2014, do you know how many of	9	capab
10	Centripetal's products were sold on the market?	10	Centri
11	A I don't recall, as I sit here today.	11	
12	Q Okay. Do you have any idea now, at the	12	tha
13	current time, what are the annual sales of	13	co
14	Centripetal products?	14	an
15	A No, it's not something that I have	15	
16	studied.	16	Is
17	Q Okay. Are you aware of who are the major	17	BY M
18	competitors of Centripetal's products?	18	Q
19	A I'm aware of obviously Cisco, who is in	19	consu
20	this party of this litigation; Keysight, which was	20	the ca
21	a party in the litigation we just mentioned.	21	versus
22	Those are the two that are immediately	22	A
23	coming to mind.	23	recalli
25	coming to minu.	25	recam

24

25

the Cisco

M. GOODRICH
of the application for this patent?
Yes.

Yes. ١ Okay. Comparing what it says there to) graph 46 of your Declaration, where you say the patent was filed on August 16th, 2014, whereas atent itself says it was filed on April 16th of , do you see that? Yes. Is that a typo in your Declaration? Yes. Yes, this is one of the typos I had tioned earlier. Okay.) It should be April 16th. And likewise, I repeat that same typo in graph 47. Q Okay. No problem. So let's use 14th, 2014 -- or excuse me. Let me start over. Let's use April 16th, 2014 as what we the priority date; is that fair? Yes. Before the priority date for the '213) nt, had you ever herd of Centripetal Networks? Not to my recollection as I'm sitting

today.

Page 13

M. GOODRICH	1	M. GOODRICH
Q Have you ever, at any point in time, used	2	A I'm not sure I understand your question,
y of their products?	3	what do you mean by comparison?
A No.	4	I've done some evaluations as a part of
Q Have you ever implemented any of their	5	my, you know, analysis in that previous case to other
oducts in any way?	6	products.
A Not to my recollection as I sit here	7	Q Okay. Outside the scope of litigation
day.	8	consulting, have you performed any analysis of the
Q In 2014, do you know how many of	9	capabilities of, say, Cisco products against the
entripetal's products were sold on the market?	10	Centripetal products?
A I don't recall, as I sit here today.	11	MR. PRICE: Objection to the extent
Q Okay. Do you have any idea now, at the	12	that it calls for privileged
rrent time, what are the annual sales of	13	communications, but otherwise you can
entripetal products?	14	answer.
A No, it's not something that I have	15	THE WITNESS: I'm not recalling, as
udied.	16	I sit here today, having ever done that.
Q Okay. Are you aware of who are the major	17	BY MR. BLAKE:
mpetitors of Centripetal's products?	18	Q Okay. Outside the scope of litigation
A I'm aware of obviously Cisco, who is in	19	consulting, have you ever performed a comparison of
is party of this litigation; Keysight, which was	20	the capabilities of Keysight Technologies' products
party in the litigation we just mentioned.	21	versus the Centripetal products?
Those are the two that are immediately	22	A As I'm sitting here today, I'm not
oming to mind.	23	recalling having done that outside of litigation.
Q Have you ever performed any comparison of	24	Q In your experience over time, have you
e Cisco products to Centripetal's products?	25	ever, yourself, designed an intrusion detection

4 (Pages 10 to 13)

Page	15

	Page 14		Page 15
1	M. GOODRICH	1	M. GOODRICH
2	device?	2	related to intrusion detection, such as
3	MR. PRICE: Objection. Foundation.	3	authentication and verifying digital certificates
4	THE WITNESS: Didn't I I have	4	that could be part of an intrusion detection system.
5	over 300 publications that I've listed in	5	And we did build a prototype for that, in cooperation
6	my CV, some of which do deal with	6	with some developers.
7	intrusion detection, and I include in	7	But beyond that, I'm not recalling
8	those papers designs for possible	8	anything else as I sit here today.
9	intrusion detection systems.	9	Q You said they did authentication and what
10	So if you want, I can go into	10	else?
11	details on any of those, if you are	11	A Verification of digital certificates.
12	interested.	12	Q And is this one instance you're referring
13	BY MR. BLAKE:	13	to or is this multiple different projects you're
14	Q Have you ever built an intrusion	14	referring to?
15	detection system?	15	A This was one sort of series of projects
16	A When you say built, are you talking about	16	that started with a patent that I'm a coinventor on,
17	a physical product?	17	that then we had funding from the Department of
18	Q Correct.	18	Defense, the DARPA organization, that then we further
19	A No. I have not built a physical product	19	developed that technology and spun it out to a
20	that would be an intrusion detection device.	20	
20	Q Okay. Have you ever worked with anyone	20	startup that then built this prototype that I'm
22	in the industry to build a product like that?	21	discussing now. O Okay. Were you involved in the actual
23	A I have worked in industry to build	22	
24	network devices that would be on the, you know,	23	building of the prototype?
25	periphery of a network to do tasks that would be		A Yes.
20	periphery of a network to do tasks that would be	25	Q Okay. What's the name of the spin-out
	Dago 16		
	Page 16		Page 17
1	M. GOODRICH	1	M. GOODRICH
1 2	M. GOODRICH	1 2	
	M. GOODRICH spin-off company that ultimately well, I guess the		M. GOODRICH
2	M. GOODRICH spin-off company that ultimately well, I guess the startup company that built the prototype?	2	M. GOODRICH our system would detect that.
2 3	M. GOODRICH spin-off company that ultimately well, I guess the startup company that built the prototype? A It's called Algomagic, A-l-g-o-m-a-g-i-c.	2 3	M. GOODRICH our system would detect that. Q Was the IM Device ever implemented as
2 3 4	M. GOODRICH spin-off company that ultimately well, I guess the startup company that built the prototype? A It's called Algomagic, A-l-g-o-m-a-g-i-c.	2 3 4	M. GOODRICH our system would detect that. Q Was the IM Device ever implemented as part of an intrusion detection system?
2 3 4 5	M. GOODRICH spin-off company that ultimately well, I guess the startup company that built the prototype? A It's called Algomagic, A-l-g-o-m-a-g-i-c. Q Was the product ever marketed?	2 3 4 5	M. GOODRICH our system would detect that. Q Was the IM Device ever implemented as part of an intrusion detection system? A We did implement prototypes that
2 3 4 5 6	M. GOODRICH spin-off company that ultimately well, I guess the startup company that built the prototype? A It's called Algomagic, A-l-g-o-m-a-g-i-c. Q Was the product ever marketed? A Yes. It was marketed.	2 3 4 5 6	M. GOODRICH our system would detect that. Q Was the IM Device ever implemented as part of an intrusion detection system? A We did implement prototypes that focusing exclusively on intrusion detection.
2 3 4 5 6 7	M. GOODRICH spin-off company that ultimately well, I guess the startup company that built the prototype? A It's called Algomagic, A-l-g-o-m-a-g-i-c. Q Was the product ever marketed? A Yes. It was marketed. Q What's the name of the marketed product? A I think we called it the IM Device,	2 3 4 5 6 7	M. GOODRICH our system would detect that. Q Was the IM Device ever implemented as part of an intrusion detection system? A We did implement prototypes that focusing exclusively on intrusion detection. Q Explain what you mean by that.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	M. GOODRICH spin-off company that ultimately well, I guess the startup company that built the prototype? A It's called Algomagic, A-l-g-o-m-a-g-i-c. Q Was the product ever marketed? A Yes. It was marketed. Q What's the name of the marketed product? A I think we called it the IM Device, something like this, as I recall. Q When did this take place? A So this was in the range of years from 2000 to 2005. Q How many of the IM Devices were ultimately sold? A We did not sell any of the devices, we just built the prototype. It never was a commercial success. Q Did the IM Device perform intrusion detection? A It could be part of an intrusion detection system because it's its task was in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	M. GOODRICH our system would detect that. Q Was the IM Device ever implemented as part of an intrusion detection system? A We did implement prototypes that focusing exclusively on intrusion detection. Q Explain what you mean by that. A Our primary potential market was the single sign-on market, where people could sign on and present their certificates as a part of an enterprise, let's say maybe a dongle that they carry in their pocket and then not have to repeat that over and over again as they surf the web. So we were working on technology that would be a part of that. Mnd if by intrusion detection you mean people that would be trying to break into such a system with invalid certificates, then that would qualify; otherwise, it would not. Q Okay. If I restrict it to packet filtering technology, was the IM Device ever used or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	M. GOODRICH spin-off company that ultimately well, I guess the startup company that built the prototype? A It's called Algomagic, A-1-g-o-m-a-g-i-c. Q Was the product ever marketed? A Yes. It was marketed. Q What's the name of the marketed product? A I think we called it the IM Device, something like this, as I recall. Q When did this take place? A So this was in the range of years from 2000 to 2005. Q How many of the IM Devices were ultimately sold? A We did not sell any of the devices, we just built the prototype. It never was a commercial success. Q Did the IM Device perform intrusion detection? A It could be part of an intrusion detection system because it's its task was in verifying and validating data and digital	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	M. GOODRICH our system would detect that. Q Was the IM Device ever implemented as part of an intrusion detection system? A We did implement prototypes that focusing exclusively on intrusion detection. Q Explain what you mean by that. A Our primary potential market was the single sign-on market, where people could sign on and present their certificates as a part of an enterprise, let's say maybe a dongle that they carry in their pocket and then not have to repeat that over and over again as they surf the web. So we were working on technology that would be a part of that. And if by intrusion detection you mean people that would be trying to break into such a system with invalid certificates, then that would qualify; otherwise, it would not. Q Okay. If I restrict it to packet filtering technology, was the IM Device ever used or implemented as part of a system that did packet
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5 (Pages 14 to 17)

1 M. GOODRICH 1 M. GOODRICH 2 thave written research papers on that subject, but in terms of developing physical devices, no. 0 Very the look at Paragraph 207 of your Declemation - 0 1 That is correct. 1 That is corect. 1 That is co		Page 18		Page 19
2 Mate were used for packet filtering technology? 2 Q Okay. So the report you're relearing to 3 A I have written research papers on that 3 would be the presentation by Stanley Chincheck, which is at Exhibit 2013? 4 Subject, but in terms of developing physical devices, no. 0 If we could take a look at Exhibit 2013. 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 7 Papert statisfied a long-felt need in the industry? 10 Day. BAA 10040 by Stanley Chincheck, 13 the statement in the patent isstifying need 2 A I see that. 14 A I see that. 1 1 1 15 Q What's your basis for concluding that the 1 1 16 Patent satisfeed a long-felt need in the industry? 1 A 1 16 Q Okay. Were you aware of this 1 1 17 In other words, what camples of that stifying need 1 1 18 Paper 20 A Not as I recall sitting here today. 19 A Ned GODRICH 3 Not as I recall sitting here today. 20 M.	1	M. GOODRICH	1	M. GOODRICH
3 A I have written research papers on that subject, but in terms of developing physical devices, mo. a would be the presentation by Stanley Chincheck, which is at Fixhibi 2013 5 mo. Q If we look at Paragraph 207 of your 5 6 Q If we look at Paragraph 207 of your 5 7 Declaration – For the record, it is a presentation patent satisfied a long-felt need in the industry 10 provide proserive network protection that could scale to larger networks. 6 Q If we could take a look at Fixhibit 2013. 12 provide proserive network protection that could scale to larger networks. 12 A Test her. 13 to low have of? D. f. Goodrich, were you present when this presentation was given by Mr. Chincheck? 14 A low thave of? 12 A is centhat. 15 Q What's your basis for concluding that the protest satisfied a long-felt need in the industry? 16 pot whow of? 16 Q O kay. Were you aware of this presentation was given by Mr. Chincheck? 16 pot whow of? A No tas I recall siting here today. 17 A Yeak, so the basis for that is, first, that report net infelt. So that's - at least it's claiming to satisfy a long-felt need. 12 A Yeak, so the basis for that is, first, that this record hat hat is chont a ort in pr			2	
4 subject, but in terms of developing physical devices, no. 4 is at Exhibit 2013? 5 no. A That is correct. 6 6 Q If we look at Paragraph 207 of your 6 A 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 7 Declaration - 6 Paragraph 207 of your 10 Darge Check and in the industry? 7 Declaration vas grown bMr. Chincheck? 11 A I see that. 9 O Kay. Were you aware of this 12 A Ho shark cample, looking at the patent itself. So that's - at 9 O May. Did you locate this presentation. 12 A M then, the following paragraph where I 1 1 This presentation. 13 Q <td></td> <td></td> <th></th> <td></td>				
spin. production product and a prograph 207 of your product and a prograph 207 of your 0 O If we look at Paragraph 207 of your For the record, it is a presentation 0 - the sentence there reads: The '213 For the record, it is a presentation 1 patent satisfied a long-felt need in the industry Provide proactive network protection that could select 1 A lise that. Isee that. I have that in front of me. 2 O What's your basis for concluding that the 1 patent satisfied a long-felt need in the industry' In other words, what examples of that satisfying need 1 A N ta se inclust prevents wave for words the products active to a satisfy a long-felt need. 2 A N ta se I recall sitting here today. 2 A that secare methorism is patisfy a long-felt need. A 2 A is a the secare mation wave provided to me. Q 2 A is a recall sitting here today. Q 2 A is a recall sitting here today. Q 3 recare file cod. A Not as I recall sitting here today. 2 A is a frecall sitting here today.				
6 Q If we look at Paragraph 207 of your 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 7 Declaration - 6 Q If we could take a look at Exhibit 2013. 9 Q				
7Declaration -8AFor the record, it is a presentation9Q- the sentence there reads: The 213 patent satisfied a long-felt need in the industry10provide proactive network protection that could scale11Ch-in-ch-c-c-c-c-k.12provide proactive network protection that could scale13AI see that.14AI see that.15QWhat's your basis for concluding that the16patent satisfied a long-felt need in the industry?17In other words, what examples of that satisfying need18do you know of?19A10the statement in the patent iself. So that's - at11least it's claiming to satisfy a long-felt need.12cit ethis report that lask about and implies - for12repart, that speaks to that long-felt need.12M. GOODRICH13M. GOODRICH14M. GOODRICH15A16by which is, in my experience, not uncommon for BAA?17M. GOODRICH18academia will respond to these BAA is what the Department of Defense. Fand so as Broad Agency Announcement16by entry entry in this prosentation.17BAA?18A19A10by entry entry in this proposals or full proposals that then are funded or not.11Defense refers to as a Broad Agency Announcement12M. GOODRICH13academia will respond to these BAA sha what the De				
8 A Pm there. 8 entitled Computer Network Dicknose ChoPital Science Information 9 Q	-			
9Q the sentence there reads: The '213 patent satisfied a long-felt need in the industry provide proactive network protection that could seale to larger networks.9Assumace (CND/(A) Enabling Capability (EC) Industry Day, BAA 10-004 by Stanley Chincheck, A12that others have failed to solve - namely how to provide proactive network protection that could seale to larger networks.12Assumace (CND/(A) Enabling Capability (EC) Industry Day, BAA 10-004 by Stanley Chincheck,13to larger networks.12Ch-irac-h-c-c-k.14A I see that.Ise that, Ise that, Ise that, Ise that satisfy a long-felt need in the industry? In other words, what examples of that satisfying need to you know of?015Q Vas, were you aware of this presentation prior to the priority date for the '213 patent?16Q Okay. Were you aware of this presentation mips to atisfy a long-felt need.1317A Yeah, so the basis for that is, first, the statement in the patent itself. So that's - at cal this report that lalks about and implies - for example, looking at this chart on page 101 of my report, that speaks to that long-felt need.2018M. GOODRICH14M. GOODRICH19M. GOODRICH14M. GOODRICH10N. As ecause a BAA is what the Department of Defense. And so we in industry and academin will respond to these BAA ba system interest that's - could be a subject that they want to the state and in the respond to these BAA ba system time ecasarily to review technology of specific companies, but instead to lay the foundation of a problem - in this case, what I'm eprimation in the targer provide to ro				*
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24 Narayanaswamy patent application, which is Exhibit 24 of the '213 patent.				
25 1012? 25 Do you see that?		Naravanaswamy patent application, which is Exhibit	24	of the '213 patent.
				-
	25		25	-

6 (Pages 18 to 21)

	Page 22		Page 23
1	M. GOODRICH	1	M. GOODRICH
2	A I do see that.	2	about the way that the '213 patent is
3	Q Is it your position that, as of the	3	providing a proactive solution, it's a
4	priority date for the '213 patent, no one else in the	4	scalable solution. That also speaks to
5	industry had marketed a security product that	5	this ESG paper that talks about the
6	provides proactive network protection?	6	scalability of the Centripetal solution.
7	A Not in the way that's described in the	7	BY MR. BLAKE:
8	'213 patent, no.	8	Q So it's your position that the
9	Q Okay. But putting aside the way that	9	scalability of the solution in the '213 patent was
10	it's described in the '213 patent, were there any	10	the novel feature?
11	other network intrusion detection products being	11	MR. PRICE: Objection. Misstates
12	marketed as of the priority date for the '213 patent	12	testimony.
13	that would have provided proactive network protection	13	THE WITNESS: That's not what I'm
14	services?	14 15	saying. I'm saying, instead, that that
15	MR. PRICE: Objection.	16	is a novel feature and a benefit of the
16	THE WITNESS: Could you repeat the	17	patent, but there are others. BY MR. BLAKE:
17	question, please.	18	
18 10	(The last question was read back into the record.).	19	
19 20	THE WITNESS: I believe the passage	20	A I cite to many in my report. Many of the claims of the '213 patent work in concert to provide
20 21	that I'm citing to here in the '213	20	several benefits, such as the logging features
22	patent is acknowledging the existence of	22	together with the processing in a packet-by-packet
22 23	what could be called proactive solutions	23	basis, which I also found novel, and others, as I
23 24	before that, but they weren't scalable to larger networks.	24	mentioned in my report, or my Declaration rather.
24 25	And that's when I'm talking	25	Q So can we look at the '213 patent, which
23	And that 5 when I in taiking		
	Page 24		Page 25
1	M. GOODRICH	1	M. GOODRICH
2	is Exhibit 1001?	2	to.
3	A I have that in front of me.	3	Q So part of that passage of Claim 1, in
4	Q Okay. Column 25 has Claim 1.	4	column 25, lines 38 to 41, recites: Identifying a
5	A I am there.	5	subset of information specified by the packet digest
6	Q And in Claim 1, from lines which is in	6	logging function for each of the one or more packets
7	column 25 lines 32 through 50, there is a	7	comprising the application-layer packet-header
8	discussion of implementing a packet-transformation	8	information.
9	function that includes packet digest logging.	9	Do you see that?
10	Do you see that?	10	A Yes.
11	A Yes, I see that.	11	Q Where is that taught in the ESG paper?
12	Q These specific packet digest logging	12	A It's what I just read to you. The
13	features that are claimed in Claim 1, where are they	13	logging, content capture, mirroring, redirection,
14	discussed in the ESG paper that's Exhibit 2006?	14	shielding and advance threat detection.
15 16	A So I cite to that in my Declaration in	15 16	Q So just by using the word logging, it's
17	Paragraph 210. I cite to this portion from the ESG paper which is Exhibit 2006, page seven, which talks	17	your position that you would understand that that includes identifying a subset of information
18	to and I even bolded this logging, content	18	
18 19	capture, mirroring, redirection, shielding and	18	specified by the packet digest logging function for each of the one or more packets comprising the
20	advance threat detection.	20	application-layer packet-header information?
20 21	And that's in summary form. Obviously,	20	MR. PRICE: Objection. Misstates
22	this is a report that's trying to summarize the	21	testimony.
23	benefits of the Centripetal technology. It's	23	THE WITNESS: No, that's not what
24	addressing the same things that now are being claimed	24	I'm saying.
25	in Claim 1 in that passage that you just directed me	25	I'm saying that that entire
-			

7 (Pages 22 to 25)

	Page 26		Page 27
1	M. GOODRICH	1	M. GOODRICH
2	paragraph, in the context of describing	2	solution.
3	Centripetal's technology, is inclusive of	3	And based on that high level description
	now this step of the patent that you just	4	and my reading of the patent and my analysis of the
4	1 1 5 5		
5	read.	5	patent, I believe that there is, indeed, a connection
6	BY MR. BLAKE:	6	there or a nexus, as some people say, between the
7	Q So would a person of ordinary skill in	7	limitations of the patent, the benefits of the
8	the art understand that this particular limitation in	8	patent, and what is being described here in this
9	column 25, part of Claim 1 in the '213 patent, is	9	white paper.
10	disclosed in this citation from Paragraph 7 of the	10	Q You would agree that the white paper
11	ESG paper?	11	doesn't specifically disclose the limitation,
12	A I don't believe that's what I'm	12	correct?
13	explaining.	13	A Correct. It doesn't have those words
14	Instead, what I'm explaining is that this	14	from the patent itself.
15	limitation of the identifying step is inclusive in	15	Q But it's your
16	this praise that is coming from the ESG Paper. It's	16	A I think that it wouldn't it be implicit,
17	a part of that system that is the Centripetal network	17	as a part of that, all those steps that go into those
18	solution.	18	things, like logging, content capture and mirroring.
19	Q How do you know that?	19	Q Okay.
20	A Based on this this statement. It's	20	A And redirection.
21	the purpose as I read this white paper, it's not	21	Q Okay. So similarly, the next limitation,
22	to try to give a detailed summary of every step of a	22	the generating, for each of the one or more packets
23	solution, but instead to take a high level picture	23	comprising the application-layer packet-header
24	and provide an assessment of that, which, in this	24	information, a record comprising the subset of
25	case, is providing praise to the Centripetal network	25	information specified by the packet digest logging
	Dage 28		Dage 29
	Page 28		Page 29
1	M. GOODRICH	1	M. GOODRICH
1 2	M. GOODRICH function is a limitation that's in column 25, lines	2	M. GOODRICH level, as I mentioned for the other limitations.
	M. GOODRICH function is a limitation that's in column 25, lines 42 to 45.	2 3	M. GOODRICH level, as I mentioned for the other limitations. Q Okay. But it's your position that it
2	M. GOODRICH function is a limitation that's in column 25, lines 42 to 45. Do you see that?	2 3 4	M. GOODRICH level, as I mentioned for the other limitations. Q Okay. But it's your position that it would be understood to be there by a person of
2 3	M. GOODRICH function is a limitation that's in column 25, lines 42 to 45. Do you see that? A I do see that.	2 3 4 5	M. GOODRICH level, as I mentioned for the other limitations. Q Okay. But it's your position that it would be understood to be there by a person of ordinary skill in the art?
2 3 4 5 6	M. GOODRICH function is a limitation that's in column 25, lines 42 to 45. Do you see that? A I do see that. Q And you would agree that that limitation	2 3 4 5 6	M. GOODRICH level, as I mentioned for the other limitations. Q Okay. But it's your position that it would be understood to be there by a person of ordinary skill in the art? A That there would be
2 3 4 5	M. GOODRICH function is a limitation that's in column 25, lines 42 to 45. Do you see that? A I do see that. Q And you would agree that that limitation is not disclosed in the ESG Paper, correct?	2 3 4 5	M. GOODRICH level, as I mentioned for the other limitations. Q Okay. But it's your position that it would be understood to be there by a person of ordinary skill in the art? A That there would be MR. PRICE: Objection.
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2 3 4 5 6 7 8	M. GOODRICH function is a limitation that's in column 25, lines 42 to 45. Do you see that? A I do see that. Q And you would agree that that limitation is not disclosed in the ESG Paper, correct? A Not word by word, but instead in summary.	2 3 4 5 6 7 8	M. GOODRICH level, as I mentioned for the other limitations. Q Okay. But it's your position that it would be understood to be there by a person of ordinary skill in the art? A That there would be MR. PRICE: Objection. THE WITNESS: It's my opinion that
2 3 4 5 7 8 9	M. GOODRICH function is a limitation that's in column 25, lines 42 to 45. Do you see that? A I do see that. Q And you would agree that that limitation is not disclosed in the ESG Paper, correct? A Not word by word, but instead in summary. As I mentioned, this white paper is a high level	2 3 4 5 6 7 8 9	M. GOODRICH level, as I mentioned for the other limitations. Q Okay. But it's your position that it would be understood to be there by a person of ordinary skill in the art? A That there would be MR. PRICE: Objection. THE WITNESS: It's my opinion that there would be this connection that
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2 3 4 5 6 7 8 9 10 11 12	M. GOODRICH function is a limitation that's in column 25, lines 42 to 45. Do you see that? A I do see that. Q And you would agree that that limitation is not disclosed in the ESG Paper, correct? A Not word by word, but instead in summary. As I mentioned, this white paper is a high level description that's talking about the benefits of the Centripetal technology that that's that specific limitation now is one part of.	2 3 4 5 6 7 8 9 10 11 12	M. GOODRICH level, as I mentioned for the other limitations. Q Okay. But it's your position that it would be understood to be there by a person of ordinary skill in the art? A That there would be MR. PRICE: Objection. THE WITNESS: It's my opinion that there would be this connection that you'd that a person of ordinary skill in the art would see, that what is being described and praised here in this ESG
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	M. GOODRICH function is a limitation that's in column 25, lines 42 to 45. Do you see that? A I do see that. Q And you would agree that that limitation is not disclosed in the ESG Paper, correct? A Not word by word, but instead in summary. As I mentioned, this white paper is a high level description that's talking about the benefits of the Centripetal technology that that's that specific limitation now is one part of. Q Okay. The next limitation which discloses in column 25, Claim 1 of the '213 patent, lines 46 to 51 discloses: Reformatting, for each of the one or more packets comprising the application-layer packet-header information, the subset of information specified by the packet digest logging function in accordance with a logging system standard. Do you see that? A I do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	M. GOODRICH level, as I mentioned for the other limitations. Q Okay. But it's your position that it would be understood to be there by a person of ordinary skill in the art? A That there would be MR. PRICE: Objection. THE WITNESS: It's my opinion that there would be this connection that you'd that a person of ordinary skill in the art would see, that what is being described and praised here in this ESG paper is this invention. It's, again, at a very high level, but it's being described here. BY MR. BLAKE: Q Okay. And looking to the last element of Claim 1 of the '213 patent, which is in column 25, lines 51 through 55, the element recites: Routing by the packet security gateway on a packet-by-packet basis to a monitoring device, each of the one or more packets corresponding to the application-layer

8 (Pages 26 to 29)

Page 1	31	
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	Page 30		Page 31
1	M. GOODRICH	1	M. GOODRICH
2	A I do see that.	2	A It stands for cyber threat intelligence.
3	Q That's not specifically disclosed in the	3	Q Okay. And at the top of the next page,
4		4	there's the acronym SPM.
	ESG Paper, is it?	5	
5	A Not word for word. Again, it's		Do you see that?
6	describing technology that includes that at a very	6	A Yes.
7	high level.	7	Q What does that refer to?
8	Q If we could look at Paragraph 211 of your	8	A Oh, that's an acronym I use for the
9	Declaration.	9	security policy management, and then we could add an
10	A I'm there.	10	S and say it's a security policy management server.
11	Q Last line on page 103, running over to	11	Q Okay. When talking about the CTI, you
12	the first line of page 104, there is a sentence that	12	have a you refer to it an explanatory
13	is talking about the dynamic security policy that's	13	parenthetical here that explains it to be: CTI as
14	distinguished from prior art dynamic security	14	new network addresses associated with malicious
15	policies.	15	network traffic.
16	Do you see that sentence?	16	Do you see that?
17	A I do see the sentence that begins, The	17	A Yes, I do see that.
18	dynamic security policy is distinguished from prior	18	Q As of the priority date for the '213
19	art security policies, and then goes on.	19	patent, were there other security products on the
20	Q Correct. I want to talk briefly about	20	market besides anything from Centripetal Networks
21	that sentence.	21	that would receive new network addresses associated
22	There is a parenthetical here that talks	22	with malicious activity as part of their packet
23	about CTI. Do you see that?	23	filtering processes?
24	A Yes.	24	A As I sit here today, nothing is coming
25	Q What does CTI stand for?	25	immediately to mind, but if you had a reference, I'd
	Page 32		Page 33
1	M. GOODRICH	1	M. GOODRICH
1			
2			
2	be happy to examine that.	2	A Yes.
3	be happy to examine that. Q And as of the priority date of 2000	2 3	A Yes.Q The sentence last sentence on page 104
3 4	be happy to examine that. Q And as of the priority date of 2000 well, the priority date of the '213 patent, were	2 3 4	A Yes. Q The sentence last sentence on page 104 recites: The best-in-class performance of
3 4 5	be happy to examine that. Q And as of the priority date of 2000 well, the priority date of the '213 patent, were there other security products on the market that made	2 3 4 5	A Yes. Q The sentence last sentence on page 104 recites: The best-in-class performance of Centripetal's TIG owes much to the fact that the
3 4 5 6	be happy to examine that. Q And as of the priority date of 2000 well, the priority date of the '213 patent, were there other security products on the market that made use of a security policy management server?	2 3 4 5 6	A Yes. Q The sentence last sentence on page 104 recites: The best-in-class performance of Centripetal's TIG owes much to the fact that the claimed dynamic security policies implement rules on
3 4 5 6 7	be happy to examine that. Q And as of the priority date of 2000 well, the priority date of the '213 patent, were there other security products on the market that made use of a security policy management server? A Not to my knowledge as I'm sitting here	2 3 4 5 6 7	A Yes. Q The sentence last sentence on page 104 recites: The best-in-class performance of Centripetal's TIG owes much to the fact that the claimed dynamic security policies implement rules on a packet-by-packet basis.
3 4 5 6 7 8	 be happy to examine that. Q And as of the priority date of 2000 well, the priority date of the '213 patent, were there other security products on the market that made use of a security policy management server? A Not to my knowledge as I'm sitting here today. 	2 3 4 5 6 7 8	A Yes. Q The sentence last sentence on page 104 recites: The best-in-class performance of Centripetal's TIG owes much to the fact that the claimed dynamic security policies implement rules on a packet-by-packet basis. Do you see that?
3 4 5 6 7 8 9	 be happy to examine that. Q And as of the priority date of 2000 well, the priority date of the '213 patent, were there other security products on the market that made use of a security policy management server? A Not to my knowledge as I'm sitting here today. Q In your Declaration in Paragraph 213, 	2 3 4 5 6 7 8 9	A Yes. Q The sentence last sentence on page 104 recites: The best-in-class performance of Centripetal's TIG owes much to the fact that the claimed dynamic security policies implement rules on a packet-by-packet basis. Do you see that? A Yes, I do see that.
3 4 5 6 7 8 9 10	 be happy to examine that. Q And as of the priority date of 2000 well, the priority date of the '213 patent, were there other security products on the market that made use of a security policy management server? A Not to my knowledge as I'm sitting here today. Q In your Declaration in Paragraph 213, there's a sentence at the bottom of page 104 that 	2 3 4 5 6 7 8 9 10	 A Yes. Q The sentence last sentence on page 104 recites: The best-in-class performance of Centripetal's TIG owes much to the fact that the claimed dynamic security policies implement rules on a packet-by-packet basis. Do you see that? A Yes, I do see that. Q What's the basis for your conclusion that
3 4 5 6 7 8 9 10 11	 be happy to examine that. Q And as of the priority date of 2000 well, the priority date of the '213 patent, were there other security products on the market that made use of a security policy management server? A Not to my knowledge as I'm sitting here today. Q In your Declaration in Paragraph 213, there's a sentence at the bottom of page 104 that starts: The best-in-class performance of 	2 3 4 5 6 7 8 9 10 11	A Yes. Q The sentence last sentence on page 104 recites: The best-in-class performance of Centripetal's TIG owes much to the fact that the claimed dynamic security policies implement rules on a packet-by-packet basis. Do you see that? A Yes, I do see that. Q What's the basis for your conclusion that Centripetal's TIG had "best-in-class performance"?
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9 (Pages 30 to 33)

	Page 34		Page 35
1	M. GOODRICH	1	M. GOODRICH
2	Q In Paragraph 48 of your Declaration, you	2	Q Okay. Anything else.
3	provide your definition of a person of ordinary skill	3	A I've also done consulting on a scientific
4	in the art; is that correct?	4	basis throughout my career. Some of that is
5	A Yes, that's correct.	5	highlighted in my CV when I talk about my scientific
6	Q Do you believe that you qualify as a	6	consulting work. So, for example, I've consulted
7	person of ordinary skill in the art under this	7	with Disney Animation Studios, working on things that
8	definition?	8	would go into their products, which are movies, and
9	A I believe I'm at least a person of	9	other other work I've done.
10	ordinary skill in the art, yes.	10	It's on page 27 of my CV, going to page
11	Q And your definition has two prongs to it.	11	28, which are pages 140 and 141 of Exhibit 2004.
12	It says that a person would be someone with a	12	Q So the consulting that you're that you
13	Bachelor's degree in computer science or a related	13	note here on pages 27 and 28, which of these specific
14	field and either two or more years of industry	14	consulting assignments related to packet filtering
15	experience and/or an advanced degree in computer	15	technology?
16	science or related field.	16	A I'm not recalling, as I sit here today,
17	Do you see that?	17	which of those.
18	A Yes.	18	The APAC Security, obviously, involves
19	Q Which of these two prongs do you qualify	19	some security. Algomagic involved the processing of
20	under to be a POSA?	20	credentials on a network. We talked about that
21	A I qualify under both.	21	earlier today already. The others, I'm not recalling
22	Q Okay. Could you detail for me the two or	22	if it involved packet security.
23	more years of industry experience that you have?	23	Q Okay. And APAC Security, what type of
24	A It's that work with that startup company	24	work did that specifically involve?
25	that we spoke of earlier from 2000 to 2005.	25	A I'm not recalling the details of that, as
	Page 36		Page 37
			1090 37
1	M. GOODRICH	1	M. GOODRICH
1 2	I sit here today.	1 2	
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10 (Pages 34 to 37)

	Page 38		
1	M. GOODRICH	1	M. GOOD
2	started in 2016 for Acceleration Bay, LLC.	2	A Yes, that's corr
3	Do you see that?	3	Q And you imme
4	A Yes.	4	assistant professor at Jo
5	Q And you were working with counsel at	5	A Yes, that is acc
б	Kramer Levin.	6	Q And you were
7	Do you see that?	7	if that you were there
8	A Yes.	8	A So, this is a ve
9	Q And then there's another matter on 2016	9	leave one place. They'
10	for Finjan, right below it, where you're working with	10	employee, but then be v
11	Kramer Levin?	11	means that the position
12	A That is correct.	12	open and they can imm
13	Q And obviously, the current matter you're	13	an employee again.
14	working with Kramer Levin, correct?	14	So that's what o
15	A Yes.	15	I went on leave from Jo
16	Q Are there any other matters on which you	16	still had an employee re
17	are working with Kramer Levin for clients?	17	salary attached to it, no
18	A I think I just signed a retention	18	resigned in June of 200
19	agreement to do another one, the very recent one	19	Q Okay. That m
20	that's not on this list.	20	not know that.
21	Q Okay. If we look at the front page of	21	So it's fair to say
22	your CV	22	you got your Ph.D. you
23	A Okay. I'm there.	23	correct?
24	Q it lists that you got a Ph.D. in 1987;	24	A Primarily, yes,
25	is that correct?	25	Q And at that s
	Page 40		
1	M. GOODRICH	1	M. GOO
2	been a full-time employee of anyone in industry?	2	University of Californ
3	A No.	3	Those are son
4	Q Looking back in your along the same	4	included in being the
5	lines, back in your Declaration at Paragraph 3	5	Q Got it. Got i
6	A I'm there.	6	So I want to lo
7	Q it refers to maybe about the third	7	Declaration to Paragr
8	sentence that you're the technical director for	8	A Could you re
9	the Center of Algorithms and Theory of Computation in	9	Q I'd like to loo
10	the Donald Bren School of Information and Computer	10	Declaration.
11	Sciences at the University of California Irvine.	11	A I'm there.
12	Do you see that?	12	Q Oh, you beat
13	A Yes.	13	I'm catching up.
14	Q What's involved with your work as the	14	Okay. And ot
15 16	technical director for the Center for Algorithms and	15	at any surrounding pa
16 17	Theory of Computation?	16	necessary as we're tal
17	A So that work is related to the research I	17	talk about this concept

18 do with graduate students. I oversee the technical 19 work of several Ph.D. students working in our center. 20 I also run a weekly seminar where we have the 21 students present research papers and discuss them and 22 then we give feedback on their presentations. I also 23 invite invited speakers to come in and give 24 presentations on a technical basis to the members of 25 our center, as well as the broader community at the

DRICH rrect. rediately went to work as an ohns Hopkins; is that right? curate. e there until -- I can't tell re until June of 2001 or 2002? ery common -- faculty will 'll cease being a full-time what's called on leave, which n that they vacated is held nediately return to it and become occurred in July of 2001. ohns Hopkins, but technically relationship. There was no a o time, but then I officially 02. nakes more sense. I just did ay that since the time u've been working in academia, s, that's correct. since that time, have you Page 41 ODRICH rnia Irvine. me of the tasks that are e technical director. it. look a little deeper in your raph 69. repeat that, please. ook at Paragraph 69 of your

Q Oh, you beat me. Give me just a second. I'm catching up. Okay. And of course, feel free to look

at any surrounding paragraphs that you think are necessary as we're talking about this, but I want to talk about this concept of reassembly that you have in your Declaration.

Is that fair?

A You're the one asking the questions. Go ahead and ask.

Q Okay. When I use the term reassembly, what does it mean to you?

A I don't understand your question. I'm

sorry.

18

19

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21

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11 (Pages 38 to 41)

	Page 42		Page 43
1	M. GOODRICH	1	M. GOODRICH
2	Q Okay. In Paragraph 69, there's a quote	2	lower-level packets, to then rebuild, if you will
3	from Narayanaswamy that reads: IDP Device 4 may	3	that's why we say reassemble, because it was broken
4	identify the packet flows in the monitored traffic	4	apart at the beginning, it's now the as it's being
5	and transparently reassembles application-layer	5	transmitted through the network, it reassembles
6	communications from the packet flows.	6	those that data back to the application-layer
7	A Yes, I see that.	7	message.
8	Q What does that mean to you?	8	Q So it reassembles it back to a flow so
9	A Oh, yeah. So what that means is, the way	9	that it can differentiate, say, a flow for an FTP
10	that the internet works which I review a little	10	message from a flow from an HTTP message; is that
11	bit about these layers of networking in my	11	fair?
12	Declaration and, likewise, there's actually some	12	MR. PRICE: Objection.
13	really nice discussion of that in Dr. Jeffay's	13	THE WITNESS: I I'm sorry. I
14	Declaration of that that talk about how packets	14 15	didn't catch that. Could you repeat that
15 16	you're using the term fairly broadly can come at	16	or reexplain what you meant? BY MR. BLAKE:
17	various levels in those layers. And if we're talking about things that	17	
18	happen at the application layer, those messages that	18	Q Sure. So if I have packets in a data stream that are going over a network, and they arrive
19	exist at the application layer typically are going to	19	at a router that is the border to a secured network,
20	be comprised of multiple in fact, sometimes many,	20	the packets would be reassembled into their packet
20	many different packets from the lower levels.	20	flow such that you could differentiate, for instance,
22	And in order for the Narayanaswamy	22	the flow for an HTTP request response from, say, an
23	solution to be able to do its analysis and types of	23	FTP request response; is that fair?
24	classification that it does, it needs to reassemble	24	MR. PRICE: Objection.
25	those lower-level packets, the data that's in those	25	THE WITNESS: I if that's the
	1 ,		
	Page 44		Page 45
1		1	
1	M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH kind of classification that you're still	2	M. GOODRICH still on a packet-by-packet basis, correct?
2 3	M. GOODRICH kind of classification that you're still doing, I think that could be something	2 3	M. GOODRICH still on a packet-by-packet basis, correct? A I'm sorry. I didn't understand that
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	Page 46		Page 47
1	M. GOODRICH	1	M. GOODRICH
2	protocol?	2	03 0030, what you're talking about there?
3	A I'm sorry. Where in Narayanaswamy are	3	Q Yes. I have it right in front of me.
4	you reading this from?	4	A All right. So what what are you
5	Q We've been talking about Paragraph 69 of	5	directing me to in that paragraph?
6	your Declaration.	6	Q Let me see if I can break it down for you
7	A Right. So let's go to the passage from	7	this way.
8	Narayanaswamy that that is referring to. Do you know	8	A Okay.
9	which exhibit is Narayanaswamy?	9	Q When the data is being transmissioned
10	Q Yes, I do. It is Exhibit 1012.	10	across a transmission line and it arrives at a
11	A I believe I'm citing to Paragraph 0030 in	11	router, I have a stream of packets, correct?
12	Narayanaswamy.	12	A Yes. Correct.
13	Q That's correct.	13	Q And those packets would then be for
14	A All right. So, again, what is the	14	instance, in Narayanaswamy classified by the
15	question?	15	classifier module?
16	Q Sure.	16	A I'm sorry. Is there a question pending?
17	If the packet data flows are	17	Q Yes. Is that correct?
18	transparently reassembled, wouldn't the packet	18	Would the packets arriving the
19	structure have to be maintained in order for the	19	incoming traffic that's arriving as packets, would
20	reassembly to be transparent to the TCP protocol?	20	they be classified and divided into flows by the
21	A I'm still not understanding your	21	classifier module?
22	question. It doesn't sound like we're using the	22	A Yes. That's what it's describing.
23	words in the same way that Narayanaswamy is using	23	In the IDP Device 4, they identify the
24	them.	24	packet flows in the monitored traffic and
25	Where do do you see the Paragraph	25	transparently reassembles the application-layer
	Dage 48		Page 49
1	Page 48	1	Page 49
1	M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH communications from the packet flows.	2	M. GOODRICH A Do you mind if we don't always say the
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	Page 50		Page 51
1	M. GOODRICH	1	M. GOODRICH
2	A In general, the '213 patent speaks about	2	the classifier module is shown as being part of IDP
3	it, as well. I think there's even a claim a	3	Device 4, right?
4	pending claim that talks about the 5-tuple, isn't	4	A Yes, it's inside.
5	there?	5	Q Okay. Paragraph 49 of Narayanaswamy then
6	Q Yeah, but I guess my question is: Would	6	discusses that the classifier module accesses a flow
7	the 5-tuple have been well known to a person of	7	table, right?
8	ordinary skill in the art as of the priority date?	8	A Yes.
9	A The concept of 5-tuples is known just	9	Q And as part of that, in Paragraph 49,
10	in the abstract, yes, that concept is known prior to	10	each of the packets is tagged or otherwise marked to
11	that priority date.	11	indicate a policy that will be applied to each tagged
12	Q Okay. Paragraph 48 says that: The	12	packet, correct?
13	classifier module is classifying incoming packets by	13	A Yes.
14	looking and extracting information relating to the	14	Q And Paragraph 50, in turn, discusses that
15	5-tuple from each of the packets.	15	the classifier module's classifying incoming packets
16	Right?	16	based on application-layer packet-header information
17	A Yes, that's what it says.	17	that's been extracted from each packet, correct?
18	Q So it's looking at them on	18	A Yes, it says that.
19	packet-by-packet basis?	19	Q Okay. So basically what's happening is
20	A The classifier module is, which is, of	20	that you are identifying each packet on a
21	course, distinct from the IDP Device 4.	21	packet-by-packet basis by the specific
22	I speak to that in my Declaration, about	22	application-layer information that is located in that
23	how this is happening prior to any of the other stuff	23	packet, correct?
24	that is that Dr. Jeffay is pointing to.	24	A I wouldn't characterize it that way.
25	Q If I look at Figure 2 of Narayanaswamy,	25	Instead, I would say that it's
	Page 52		Page 53
1	Page 52 M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH characterizing the flow based on looking at these	2	M. GOODRICH of an FTP flow.
	M. GOODRICH characterizing the flow based on looking at these 5-tuples in the packets that comprise the different		M. GOODRICH of an FTP flow. BY MR. BLAKE:
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14 (Pages 50 to 53)

	Page 54		Page 55
1	M. GOODRICH	1	M. GOODRICH
2	a packet-by-packet basis to see what policy will be	2	servicing engine in Narayanaswamy is looking on
3	applied based on what application-layer packet-header	3	packet-by-packet basis and applying a particular
4	information is identified, correct?	4	policy to a particular packet; is that fair?
5	A That's what it says what it defines as a	5	A I believe that's more or less what's
6	policy.	6	being said here.
7	Q And then Paragraph 51 refers to the	7	Q Okay. So wouldn't you acknowledge that
8	servicing engine.	8	Narayanaswamy looks on a packet-by-packet basis and
9	Do you see that?	9	decides what policies are going to be applied to each
10	A Yes.	10	packet based on the application-layer packet-header
11	Q And the servicing engine is part of IDP	11	information in that packet?
12	Device 4?	12	A It's applying that to what it calls
13	A That is correct.	13	policies, yes.
14	Q And the servicing engine is a module	14	Q Is it your position that the policies in
15	as it's disclosed in 51 that may service or	15	Narayanaswamy are different from the policies recited
16	process each packet by applying one of Policies 32 to	16	in the '213 patent's claims?
17	each packet; is that correct?	17	A Yes, I believe I've given those opinions
18	A Where do you see that? I'm sorry. I'm	18	in my Declaration.
19	not seeing that.	19	Q How are they different?
20	Q The second sentence of Paragraph 51 says	20	A They're not dynamic security, which is
20	that: Servicing Engine 28 may service or process	21	what is the claims of the '213 patent.
22	each packet by applying one of Policies 32 to each	22	Q So you are aware that the Patent Trial
23	packet; is that correct?	23	and Appeal Board issued an Institution Decision that
23 24	A Yes. Yes, I see that.	24	instituted the IPR in this proceeding; is that
25	Q So the it's fair to say that the	24	correct?
20	Q So the it's fail to say that the	25	conect:
	Dago 56		
	Page 56		Page 57
1	Page 56 M. GOODRICH	1	Page 57 M. GOODRICH
1 2		1 2	M. GOODRICH A I do see that.
	M. GOODRICH A Yes. MR. BLAKE: All right. Jeff Price,		M. GOODRICH A I do see that. Q And is it your position that that
2	M. GOODRICH A Yes.	2	M. GOODRICH A I do see that. Q And is it your position that that definition of dynamic security policy is wrong?
2 3	M. GOODRICH A Yes. MR. BLAKE: All right. Jeff Price, if we could provide the Institution Decision to Dr. Goodrich.	2 3	M. GOODRICH A I do see that. Q And is it your position that that definition of dynamic security policy is wrong? A That's correct. I respectfully disagree
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15 (Pages 54 to 57)

	Page 58		Page 59
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1	M. GOODRICH	1	M. GOODRICH
2	A Yes, because I disagreed on that point.	2	don't think it's possible to reassemble them like
3	I did adopt their other constructions, some of their	3	that. You don't know their sizes or some of the
4	other constructions, as I mentioned in my section on	4	other data that was inside the headers. You've
5	Claim Construction.	5	thrown all that away.
6	Q But you have not provided any opinion	6	Q If we could look to Paragraph 78 of your
7	that would show your analysis based on the board's	7	Declaration, which discusses the Kapoor reference,
8	construction of dynamic security policy, correct?	8	which is Exhibit 1013.
9	A Yes, that's correct. That would require	9 10	A I'm there.
10 11	a supplemental declaration or additional time.	11	Q And in Paragraph 78 of your Declaration,
12	Q Is it possible in analyzing packets that	12	you're talking about Paragraph 77 of Kapoor, correct? A Yes.
13	once they're reassembled into the flow, that you can	13	
14	still filter them on packet-by-packet basis? A I don't see how that's possible, just	14	Q And that Paragraph 77 Kapoor starts with: In another aspect of the invention.
15	sitting here today.	15	Do you see that?
16	Q When you first reassemble the packets	16	A Yes, I quoted it in my Declaration.
17	into a flow, do they still maintain the packet	17	Q So Kapoor is talking about just one
18	structure?	18	this Paragraph 77 excuse me is talking about
19	A No, you've unless you literally are	19	just one aspect of the Kapoor invention, correct?
20	keeping around the packets, which is now not just	20	A In the context that of the entire
21	reassembly but something else. But just the	21	specification of Kapoor, which I read.
22	reassembly itself no longer keeps around the packets	22	Q All right. But it may be in that
23	that you were using their payloads to then reassemble	23	context, but it's just talking about one aspect of
24	this message.	24	invention, correct?
25	And I don't I don't know of any I	25	A That's what it says.
	, 		
	Page 60		Page 61
1	Page 60 M. GOODRICH	1	Page 61 M. GOODRICH
1 2		1 2	
	M. GOODRICH		M. GOODRICH
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	Page 62		Page 63
1	M. GOODRICH	1	M. GOODRICH
2	similar indications).	2	A Yes. That's literally not a
3	Do you see that?	3	packet-by-packet basis.
4	A Yes, I do.	4	Q Why?
5	Q What does that mean to you?	5	A Because you're processing sequences of
6	A Just what it says. The scanning	6	packets. Packet-by-packet means you're processing
7	processing can request a replay of the next packet.	7	each packet in computer science, we refer to this
8	Q And so the scanning or packet filtering,	8	as an on-line process. That you complete the
9	the pattern detection circuitry as it's called here,	9	processing of one thing before you go on to the next.
10	is being done by comparing one packet to another,	10	That's what packet-by-packet means in the context of
11	correct?	11	the '213 patent. You process each packet, one at a
12	A No, that's incorrect.	12	time.
13	Q Well, when it says upon scanning a packet	13	This is literally not doing that. It's
14	it may request a replay of the current packet with	14	processing two, three at a time.
15	the next packet of the TCP flow, what does that's	15	Q So it's processing packets
16	not being done on a packet-by-packet basis?	16	A It's not a packet-by-packet basis.
17	A That is correct. It's not being done on	17	Q It's processing packets, but your
18	a packet-by-packet basis.	18	position is that it's only processing multiple
19	Q Well, I guess you're going to have to	19	packets at a time?
20	explain that to me because it says you are comparing	20	A That's what it says here. That's
21	the current packet with a replay of the previous	21	literally what it's saying in Paragraph 404.
22	packet.	22	Q Okay. And so let me ask you this then:
23	A I'm not seeing that word.	23	Based on that, then, as part of the reassembly
24	Q Doesn't it say: May request a replay of	24	process, you would agree that the packets maintain
25	the current packet with the next packet?	25	their packet structure, otherwise you wouldn't be
	· ·		
	Page 64		Page 65
1		1	
1	M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH able to process multiple packets at a time?	2	M. GOODRICH Q I'm not asking about packet-by-packet
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17 (Pages 62 to 65)

	Page 66		Page 67
1	M. GOODRICH	1	M. GOODRICH
2	itself, once you've reassembled it, you can't go back	2	Q Okay. If you would turn with me back to
3	to those packets.	3	Paragraph 23 of Kapoor.
4	So that's what Kapoor is teaching. He's	4	A Okay. I'm there.
5	teaching us both, that you're storing the packets in	5	Q So take a moment to read it, if you
6	this T queue, which is also not on a packet-by-packet	6	haven't already.
7	basis, and doing this reassembly so it can do its	7	A Okay.
8	pattern analysis on the flows.	8	Okay. I've completed that.
9	Q So your position is that, in this	9	Q In Paragraph 23, it's referring to the
10	particular embodiment of Kapoor, they're looking at	10	flow processing facility used in a computer security
11	stored packets, not packets that are embodied within	11	environment with particular embodiments related to
12	the flow?	12	content inspection, correctly correct?
13	A No. That's also incorrect. It's doing	13	A Yes. That's what it says.
14	both.	14	Q And about halfway down the paragraph it
15	So we have this passage in the beginning	15	says: The packet inspection may be directed at a
16	where it's talking about re like in 402 and 403,	16	header of the packet and/or a payload of the packet.
17	how it's reassembling these flows and doing the	17	Correct?
18	pattern analysis on those flows.	18	A Yes, I see that.
19	Because these are very complicated	19	Q So the packet inspection here is done on
20	pattern analysis. They are based on the Aho–Corasick	20	a packet-by-packet basis, correct?
21	algorithm that are being taught in Kapoor, but then	21	A No, I disagree.
22	also talking about how this queue, the T queue, can	22	Q Why?
23	be storing packets that comprise the queue, that	23	A Because this is now just describing at a
24	ultimately were their data was built to form the	24	very high level how this processing goes, and that's
25	flows. So it's doing both.	25	consistent with the passage that we just read in the
	Page 68		Page 69
1	Page 68	1	Page 69 M.GOODRICH
1	M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH 400s.	2	M. GOODRICH Q Well, the '213 patent, if we look at
2 3	M. GOODRICH 400s. Q It says that it is looking at	2 3	M. GOODRICH Q Well, the '213 patent, if we look at column 25, lines 27 to 31
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18 (Pages 66 to 69)

	Page 70		Fage /1
1	M. GOODRICH	1	M. GOODRICH
2	A I don't think it could you just point	2	one packet in it. You're still processing the whole
		3	
3	to me where it's cited in Dr. Jeffay's Declaration		thing as a flow. You're not really doing it on a
4	also.	4	packet-by-packet basis. It's just, in that instance,
5	Q I'm not asking you about Dr. Jeffay's	5	because the message itself was so small, that it was
6	Declaration. I'm asking you about what the paragraph	6	just one packet.
7	says.	7	Q And where in Kapoor does it state that
8	A All right. But you said you said I	8	that's the phenomenon you hypothesize it's referring
9	don't like it. So I was wondering if Dr. Jeffay	9	to?
10	liked it, if that's fair.	10	A You have to read Kapoor in its context.
11	Q Well, the paragraph says: In any case,	11	When it gets into the details, it's clear like
12		12	
	any and all packet inspection may be directed at the		what we just read in the 400s that it's doing
13	inspection of data that encompasses a packet or flow	13	things based on the flows. All of the classification
14	of packets.	14	stuff and the pattern matching is done on the flows,
15	Do you see that sentence?	15	not on a packet-by-packet basis.
16	A Yes.	16	Q This sentence right here says that: Any
17	Q So that says, to a POSA, doesn't it, that	17	and all packet inspection may be directed at the
18	the packet inspection can be performed by looking at	18	inspection of data that encompasses a packet.
19	one packet at a time or by looking at multiple	19	Can you point me to anywhere in Kapoor
20	packets at a time, correct?	20	where it says that what is meant by a packet is that
21	A I disagree.	21	you're looking at a packet that is the only packet in
22	Q Well, what does it mean when it says that	22	a flow?
23	the inspection of the data can encompass a packet?	23	A A POSA would know that that's possible
24	A It's referring to this phenomenon, which	24	and that that's a phenomena that could just be as an
25	is rare but can happen, where a data flow just has	24	accident when you're doing the kind of flow analysis
20	is fale out can happen, where a data now just has	25	accident when you re doing the kind of now analysis
	Page 72		Page 73
			Fage 75
1		1	
1	M. GOODRICH	1	M. GOODRICH
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	M. GOODRICH that we just read in the 402 to 405 message. Q Wouldn't a POSA also know that you could be looking on the packets by a packet on a packet-by-packet basis, since you're looking at a packet one at a time? A No, not not based on the teachings of Kapoor. Also, are there places in Dr. Jeffay's report or Declaration where he cites to this passage? Q I'm asking the questions. A Okay. Q Let's turn to Paragraph 129 of Kapoor. A Okay. I'm there. Q The first sentence states: Application level content inspection may relate to processing a data flow by examining the application-layer payloads of the packets that make up the flow. Do you see that? A Yes. Q So there are you when it says packets that make up the flow, is it referring to a flow that has separate packets within it?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	M. GOODRICH Q And those packets are in a packet structure, so should they would be separate from each other? A Correct. MR. BLAKE: Okay. We've been going a little over an hour. Why don't we take a break and stretch our legs. (Brief pause.) BY MR. BLAKE: Q Dr. Goodrich, I'd like to pick up with your Declaration, and specifically Paragraph 52 of it, and talk about it, and also if you'll have handy a copy of the '213 patent. A Okay. I've got Paragraph 52 there, and I've got the '213 patent in front of me, as well. Q In Paragraph 52 of your Declaration, it talks about in the last sentence, it recites: Quote, An advantage for this approach, of course, is that it does not require an application-layer message to be reassembled from all the packets for such a message in order for packet filtering to occur. Do you see that?

19 (Pages 70 to 73)

1 M. GOODRICH 1 M. GOODRICH 3 application-layer message to be reasolid from the packets before filtering occurs? 0 0 4 A. This speaks to the scalability of the issue that's, for example, mentioned in that white paper we talked about earlier (add), that by packet pasks, the they reasoning, and packet-by-packet basis, the they it may do things that involve multiple packets. 1 0 1 N. Is using that term may, that we talked about earlier (add), that by it may do things about how it may do things that involve multiple packets. 10 talking about in Kapsor, and process the packets as the they're coming, without extra storage, it matching. 0		Idge /I		rage /J
2 application-layer message to be reassembled from the paper we takked solve carlier code, that by issue that's, for example, mentioned in that white paper we takked solve carlier tode, that by processing things on a packet-by-packet basis, the way that it's taught in the 213 patent, volver able to avoid all that extra overhead like we were just solved all that extra overhead like we were just to avoid all that extra overhead like we were just solved all that extra overhead like we were just to avoid all that extra overhead like we were just solved all that extra overhead like we were just solved all that extra overhead like we were just to avoid all that extra overhead like we were just solved all that extra overhead like we were just application-layer packets. Q So is that were just solved like metry and all metry solved like metry and like solved like solve and like solved lik	1	M. GOODRICH	1	M. GOODRICH
3 packets before filtering occurs? 3 of the 213 patent say that the 213 4 A This speaks to the scalability of the 5 issue that's, for example, mentioned in that white 6 6 paper we talked about carlier today, that by 6 7 a strictly packet-by-packet basis, but we were just 7 8 way that it's tunght in the '213 patent, you're able 9 O So it says it's looking on a packet-by-packet basis, 10 talking about in Kapoor, and process the packets as 10 First sentence: AL Step 1106, the packet. 12 without having to build the flows and do extra fancy 12 packets security gateway may identify, from amongst the packets. 13 pattern matching. 11 packets security gateway may identify, from amongst the application-layer packet-basis, but by assis, one or more packets comprising the application-layer packet-basis, but be application-layer packet-basis, but be application-layer packet-basis, but be application-layer packet-basis, but by assis, one or act at time, in order to do these filters, and all 12 or can well ok at the '213 patent then, column 21, lines 43 to 67. 10 14 A Using that it's processing implemented such that the rules 11 15 a Okay. I'm there. 12 11 <		application-layer message to be reassembled from the	2	Q Doesn't this paragraph here in column 21
5 issue that's, for example, mentioned in that white example, mentioned in that white example, mentioned in that white example, mentioned in that white example, mentioned in the '213 patent, you're able to avoid all that extra noverhead like we were just laking about in Kapoor, and process the packets as fast as they're coming, whitout extra storage, without having to build the flows and do extra fancy packets subery coming, whitout extra storage, without having to build the flows and do extra fancy packets subery coming, whitout extra storage, without having to build the flows and do extra fancy packets subery coming, the '213 patent. 0 So is syst is looking on a packet-by-packet packet security gateway may identify, from anongst the packets security gateway may identify, from anongst the packets associated with Network A112, one or more packets comprising the packets security gateway may is application-layer packet-by-packet basis, but by application-layer packet security gateway may is application-layer packet-by-packet basis, but by application-layer packet security gateway may is an as a bas application-layer packet security gateway may is a security or more packet security gateway may is going to need to have access to the multiple packets, multiple packets, by-packet basis, but by applying that rule on a ta time on a packet-by-packet ta sinne?	3	packets before filtering occurs?	3	of the '213 patent say that the system in the '213
6 paper we talked about earlier today, that by 6 about earlier, and talking sbout how it may do things 7 processing things on a packet-by-packet basis, the way that it's tanght in the '213 patent, you're able 9 on a stictly packet-by-packet basis, but how it may do things 9 to avoid all that extra overhead like we were just 10 16 0 So it says it's looking on a packet by 11 talking about it. Kayon, and process the packets as 12 packet sassociated with the network protected by the 12 packet sassociated with the network protected by the papleation-layer packet-by-packet papleation-layer packet-based information. 14 adways looks at cach packet it's solation before 10 papleation-layer packet-based information. 15 approach that is in the '213 patent 10 For example, in some embodiments, the 16 qP can we look at the '213 patent then, 10 10 packet-by-packet basis, but other and salid about. 21 the suff it's talking about. 11 papleation-layer packet-based information. 22 A Okay. I'm three. 12 packet-by-packet basis, but by appleation-layer packet basis, but by applying that it's processing multiple packets, spatest associated with Network A112, one or more HTTP packets associated with Network A122, one	4	A This speaks to the scalability of the	4	patent can look at more than one packet at a time?
7 processing tilings on a packet-by-packet basis, the 7 on a strictly packet-by-packet basis, but how it may 8 way that it's taught in the '213 patent, 9 10 fafts its is the'?t compliant, without extra storage, 12 without having to build the flows and do extra fancy 13 pattern matching, 14 All those things are advantages of the 15 approach that is in the '213 patent. 16 Q. So, in your opinion, the '213 patent. 17 always looks at each packet in isolation before 10 think that's more or less right, that 16 The totage of the the stating about. 10 G. Can we look at the '213 patent then, 10 near tame, in order to do these filters, and all 20 G. Can we look at the '213 patent then, 21 oclumm 21, lines 43 to 67. 22 A. Okay. I'm there. 23 Q. Can we look at the '213 patent then, 24 columm 21, lines 43 to 67. 25 A. Okay. I'm there. 26 A. Okay. I'm there. 27 M. GOODRICH 2 A. Think that's a micharacterization of that ''s saying. 36 Q. Well, why does it say one or more 37 Q. Well, why does it say one or more	5	issue that's, for example, mentioned in that white	5	A It's using that term may, that we talked
8 ivary that ifs targht in the '13 patent, you're able 9 also do some things that involve multiple packets. 9 to avoid all that extra overhead like we were just 10 11 fast as they're coming, without extra storage, 10 12 without having to build the flows and do extra fancy 11 13 pattern matching. 12 14 All those things are advantages of the 12 14 All those things are advantages of the 13 14 always looks at cach packet in solation before 13 16 Q. So, in your opinion, the '213 patent 14 17 always looks at cach packet in solation before 15 18 patication-layer packet-header information. For example, in some embodiments, the 19 A. Think that's more or less right, that 16 11 the straff's talking about. 17 12 A. Okay. I'n there. 20 25 A. Okay. I'n there. 21 26 A. Okay. I'n there. 21 27 M. GOODRICH 1 28 M. GOODRICH 1 29 Net at time; on apacket-hy-packet just 30 No, that's not what that's anying. 31 Q. Well, why dosi is sy one amore	6	paper we talked about earlier today, that by	6	about earlier, and talking about how it may do things
9 to avoid all that extra overhead like we were just talking about in Kapoor, and process the packets as fast as they're coming, without extra storage, without having to build the flows and do extra fancy pattern matching. 9 Q So it says it's lowing on a packet by the first sentence: At Step 1106, the packet security gateway and on a packet by-packet basis, one or more packet somprising the packet security gateway and on a packet by-packet always looks at each packet in isolation before moving onto the next packet? 10 16 Q So, in your opinion, the 213 patent. 10 17 always looks at each packet in isolation before moving onto the next packet? 10 For example, in some embodiments, the packet security Gateway 112 may identify, from amongst the packet security Gateway 112 may identify on or more packet security Gateway 112 may identify appleing that rule one at a time on a system here is being implemented such that the rules basis, you can process multiple packets, journee if may on packet-by-packet basis, but by applying that rule one at a time on astatify independently that rule. 7 M. GOODRICH 1 8 9 Well, why does it say one arore packet-by-packet basis, you nea packet-by-packet basis, you can	7	processing things on a packet-by-packet basis, the	7	on a strictly packet-by-packet basis, but how it may
10 talking about in Kapoor, and process the packet as sorrage. 10 the first sentence: At Step 1/06, the packet 11 fast as they're coming, without extra storage, 11 security gateway may identify, from amongst the 12 without having to build the flows and do extra fancy 12 packet associated with the network protected by the 13 packet associated with the network protected by the packet associated with the network protected by the 14 All those things are advantages of the 12 packet associated with the network protected by the 15 approach that is in the '213 patent. 13 packet associated with the network protected by the 16 Q. So, in your opinion, the '213 patent then, 14 14 packet associated with the network protected by the 16 the system here, in order to do these filters, and all 14 14 14 14 17 the system here is being implemented such that the rules 12 14 14 14 14 14 14 14 14 14 14 14 14 16 16 16 17 17 16 17 16 17 16 16 16 16	8		8	also do some things that involve multiple packets.
11 fast as they're coming, without extra storage, 11 security gateway may identify, from amongst the 12 without having to build the flows and do extra fancy 12 packet security gateway may identify, from amongst the 14 All those things are advantages of the approach that is in the '213 patent 14 16 Q. So, in your opinion, the '213 patent 16 For example, in some embodiments, the 17 always looks at each packet? 18 For example, in some embodiments, the 17 moving onto the next packet? 18 For example, in some embodiments, the 18 role at a time, in order to do these filters, and all 19 packet security Gateway 112 may identify, from 20 it's processing thing about. 20 anongst the packet associated with Network A112, one 21 M. GOODRICH 21 anongst the packet associated with Network A112, one 22 A Okay. I'm there. 25 Do you see that? 24 So isn't this example stating that the system here is being implemented such that the rules 25 A Okay. I'm there. 26 Do you see that? 26 A Ithink that's a mischaracterization of M. GOODRICH 1	9	to avoid all that extra overhead like we were just	9	Q So it says it's looking on a packet by
12 without having to build the flows and do extra fancy pattern matching. 12 packet's associated with the fetwork proceeded by the packet security gateway and on a packet-by-packet 13 approach that is in the '213 patent. 13 packet's associated with the fetwork proceeded by the packet security gateway and on a packet-by-packet 14 All those things are advantages of the approach that is in the '213 patent. 14 packet's associated with the fetwork proceeded by packet header information. 17 always looks at each packet in isolation before moving onto the next packet? 16 op acket's (a.g. on or or HTTP packets. control HTTP is packet (a.g. on or or or HTTP packets (a.g. on or or or HTTP packets (a.g. on arror packet-header information. 20 0 11 11 packet security Gateway 112 may identify form among the packets associated with Network A112, one amongs the packets associated with Network A112, one among the packets (associated with Network A112, one among the packets, associated with Network A112, one amon	10	talking about in Kapoor, and process the packets as	10	the first sentence: At Step 1106, the packet
12 without having to build the flows and do extra fancy 12 packets associated with the network protected by the 13 pattern matching. 12 packets associated with the network protected by the 14 All those things are advantages of the 14 basis, one or more packets ascoriated with the network protected by the 15 approach that is in the '213 patent. 15 application-layer packet-header information. 17 always looks at each packet? 16 A I think that's more or less right, that 17 18 nor eat a time, in order to do these filters, and all 18 19 packet security Gateway 12 may identify, from 20 C an we look at the '213 patent then, 20 and Packet Security Gateway 12 may identify, from 21 one at a time, in order to do these filters, and all 21 anongst the packets associated with Network A112, one 22 A Wes. Page 76 Page 77 14 M. GOODRICH 1 M. GOODRICH 24 system here is being implemented such that the rules 5 bo you see that? 25 A Yes. 7 Q To apply an tule on eat time on a 30 S so int this example stating that t	11	fast as they're coming, without extra storage,	11	security gateway may identify, from amongst the
14All those things are advantages of the approach that is in the '213 patent.14basis, one or more packets comprising the application-layer packet-header information.16Q. So, in your opinion, the '213 patent always looks at each packet in isolation before moving onto the next packet?15application-layer packet-header rule specifying the application-layer packet-header18information application may identify one or more HTTP packets comprising an and Packet Security Gateway 112 may identify, from amongst the packet sassociated with Network A112, one or more packet scomprising the application-layer packet Security Gateway 112 may identify, from amongst the packet sassociated with Network A112, one or more packet scomprising the application-layer packet-header information.23Q. Can we look at the '213 patent then, colum 21, lines 43 to 67.2424colum 21, lines 43 to 67.2525A. Okay. I'm there.2526Page 76271M. GOODRICH2A. Yes.23Q. So isin't this example stating that the sysing.34system here is being implemented such that the rules look at more than one packet at a time?16A. I think that's a mischaracterization of things on packet-by-packet basis, but when you do thit's saying.1113Q. Well, it says: The rule specifying the application-layer packets, scence on packets, correct?114pasted of saying that it's processing things on packet-by-packet basis, sou can process musigo on packet-by-packet packets, scence on on packet.1114 <td>12</td> <td></td> <td>12</td> <td>packets associated with the network protected by the</td>	12		12	packets associated with the network protected by the
15 approach that is in the '213 patent. 15 application-layer packet-header information. 16 Q So, in your opinion, the '213 patent 16 For example, in some embodiments, the 17 always looks at each packet in isolation before 16 For example, in some embodiments, the 18 moving onto the next packet? 16 For example, in some embodiments, the 19 A T think that's more or less right, that 16 For example, that ings on a packet-hey-packet basis, 21 one at a time, in order to do these filters, and all 11 and Packet Security Gateway 112 may identify, from 22 A Okay. I'm there. 23 Q Can we look at the '213 patent then, 24 24 column 21, lines 43 to 67. 25 A Okay. I'm there. 25 24 Do you see that? 24 boy ou see that? 25 3 Q So in't this example stating that the system here is being implemented such that the rules to system here is being implemented such that the rules took at more than one packet at time? 1 M. GOODRICH 1 M. GOODRICH 4 A Thikit Mar's a mischaracterization of what it's saying. 7 Q To apply a rule that identifies multiple packets, at time? 6 5<	13	pattern matching.	13	packet security gateway and on a packet-by-packet
15 approach that is in the '213 patent. 15 application-layer packet-header information. 16 Q So, in your opinion, the '213 patent 16 For example, in some embodiments, the 17 always looks at each packet in isolation before 16 For example, in some embodiments, the 18 moving onto the next packet? 18 rule specifying the application may identify one or more HTTP packets (e.g., one or more HTTP packets. 20 that that is more or less right, that 19 and Packet Security Gateway 112 may identify, from 21 the stiff its alking about. 21 and Packet Security Gateway 112 may identify, from 23 Q Can we look at the '213 patent then, 23 or more packet sassociated with Network Al12, one 23 Q Can we look at the '213 patent then, 23 packet security from amongst the packets associated with Network Al12, one 24 column 21, lines 43 to 67. 25 Do you see that? 25 A Okay. Tm there. 26 Page 77 1 M. GOODRICH 1 M. GOODRICH 4 packet-by-packet basis, you necessarily would be processing multiple packets, hust you would each 7 Q To apply a rule that identifies multiple p	14	All those things are advantages of the	14	
16 Q So, in your opinion, the '213 patent 16 For example, in some embodiments, the 17 always looks at each packet in isolation before 17 rule specifying the application-layer packet-header 18 Moving onto the next packet? 19 packet Sec., rule application may identify one or more HTTP packets comprising an 20 If think that's more or lars right, that 10 10 20 at a time, in order to do these filters, and all 10 21 Or an we look at the '213 patent then, 20 22 A Okay. I'm there. 23 or more packets associated with Network A112, one 23 Q Can we look at the '213 patent then, 25 Do you see that? 24 or more thance, header information. 20 or more packets comprising the application-layer 24 A Ves. 25 Do you see that? 26 3 Q So isn't this example stating that the 33 applying that rule one at a time on a 4 4 system here is being implemented such that the rules 5 5 5 16 N this's aying. 1 M. GOODRICH 1 M. GOODRICH 1 M. Goodeeessing	15		15	application-layer packet-header information.
17 always looks at each packet in isolation before 17 rule specifying the application-layer packet-header 18 moving onto the next packet? 18 19 A I think that's more or less right, that 18 20 it's processing things on a packet-by-packet basis, one at a time, in order to do these filters, and all 19 21 the sthff it's falking about. 20 23 Q Can we look at the '213 patent then, 21 24 column 21, lines 43 to 67. 24 25 A Okay. I'm there. 25 26 Do you see that? 26 Page 76 26 Do you see that? 26 Page 76 27 1 M. GOODRICH 2 A Yes. 20 So isn't this example stating that the system here is being implemented such that the rules 27 3 Q So isn't this example stating that the system here is being implemented such that the rules 28 packet-by-packet basis, you necessarily would be <	16		16	For example, in some embodiments, the
18 moving onto the next packet? 18 information application may identify one or more HTTP 19 A I think that's more or less right, that 19 packet's (e.g., one or more HTTP packets comprising an 21 one at a time, in order to do these filters, and all 19 and Packet Security Gateway 112 may identify, from 22 A we look at the '213 patent then, 20 column 21, lines 43 to 67. 24 24 column 21, lines 43 to 67. 24 packet-header information. 25 25 A Okay. I'm three. 25 Do you see that? 26 21 M. GOODRICH 1 M. GOODRICH 1 M. GOODRICH 24 system here is being implemented such that the rules 26 packet-by-packet basis, you necessarily would be 27 3 Q So isn't this example stating that the 3 applying that rule one at a time on a 3 4 system here is being implemented such that the rules 10 6 at time one packet-by-packet basis, you necessarily would be 5 10 Instead of saying that it's processing 11 M. GOODRICH 1 A Not necessarily 11 Instead of saying that it's processing	17		17	rule specifying the application-layer packet-header
19AI think that's more or less right, that it's processing things on a packet-by-packet basis, or or at a time, in order to do these filters, and all the stuff it's talking about.19packets (e.g., one or more HTTP packets comprising an HTTP get-method call), amongst the packets comprising the application-layer packets comprising the application-layer packet sources associated with Network A112, one or more packets comprising the application-layer packet sources in application-layer packet sources in application during the application-layer packet sources in application during the application-layer packet sources in a time.10M. GOODRICH1M. GOODRICH2AYes.2them one at a time on a packet-by-packet basis, but whe rules to the multiple packets, apply a rule that identifies multiple packets, packet basis, but when you do that - when you process things on packet-by-packet that's asyming on packet-by-packet basis, but when you do that - when you process things on packet-by-packet that's asyming on packet-by-packet basis, but when you do that - when you process things on packet-by-packet that's asyming in the application-layer packet at to the multiple packets, and one and the at the application-layer packet information may identify one or more HTTP	18		18	
20 it's processing things on a packet-by-packet basis, one at a time, in order to do these filters, and all the stuff it's talking about. 20 HTTP get-method call and/or an HTTP put-method call), and Packet Security Gateway 112 may identify, from amongst the packets associated with Network A112, one or more packet scomprising the application-layer packet scomprising the application-layer packet header information. 21 Q Can we look at the '213 patent then, colurn 21, lines 43 to 67. 24 25 A Okay. I'm there. 25 26 Page 76 Page 77 1 M. GOODRICH 1 M. GOODRICH 2 A Yes. 20 asystem here is being implemented such that the rules look at more than one packet at a time? 20 Yeage 77 2 A I think that's a mischaracterization of what it's saying. 7 Q To apply a rule that identifies multiple packets, that they would each satisfy independently that rule. 20 Yeage 77 2 A I think that's a mischaracterization of this? 7 Q To apply a rule that identifies multiple packets, isut process mig multiple packets, just processing multiple packets, just process multiple packets, and one may identify multiple packets at a time?	19		19	
21 one at a time, in order to do these filters, and all 21 and Packet Security Gateway 112 may identify, from 23 Q Can we look at the '213 patent then, 22 amongst the packets associated with Network A112, one 24 column 21, lines 43 to 67. 24 25 A Okay. I'm there. 25 Page 76 Page 76 1 M. GOODRICH 25 2 A Yes. 26 3 Q So isn't this example stating that the 39 4 system here is being implemented such that the rules 30 10 A I think that's a mischaracterization of 4 7 what it's saying. 7 8 Instead of saying that it's processing 7 9 things on packet-by-packet basis, but when you do 7 11 basis, you can process multiple packets, isust 7 12 processing multiple packets, each one at a time. 7 13 Q Well, it says: The rule specifying the 7 14 application-layer packet information may identify one 7 15 or more HTTP packets. 7 16 Right? So	20	•	20	
22 the stuff it's talking about. 22 amongst the packets associated with Network A112, one or more packets comprising the application-layer packet-beader information. 23 Q Can we look at the '213 patent then, column 21, lines 43 to 67. 24 25 A Okay. I'm there. 24 26 A Okay. I'm there. 25 7 M. GOODRICH 25 Do you see that? 2 A Yes. 26 3 Q So isn't this example stating that the system here is being implemented such that the rules look at more than one packet at a time? 1 M. GOODRICH 4 system here is being implemented such that the rules look at more than one packet at a time? 24 apalplying that rule one at a time on a packet-by-packet basis, but by applying that rule one at a time on a packet-by-packet basis, but whon you do 4 packet-by-packet basis, you necessarily would be processing multiple packets, each one at a time. 9 things on packet-by-packet basis, but whon you do 7 Q To apply a rule that identifies multiple packets, the gateway is going to need to have access to the multiple packets, cass cone at a time. 10 the - when you process things on packet-by-packet basis, but whot you do 9 10 A Not neccessarily. 11	21		21	and Packet Security Gateway 112 may identify, from
23 Q Can we look at the '213 patent then, column 21, lines 43 to 67. 23 or more packets comprising the application-layer packet-header information. 24 Column 21, lines 43 to 67. 24 Do you see that? 25 A Okay. I'm there. 25 Do you see that? 26 Do you see that? 26 Do you see that? 26 Do you see that? 25 Do you see that? 26 Page 76 27 Do you see that? 28 Do you see that? Page 76 Page 77 Page 76 Page 77 Page 76 Page 76 Page 76 Page 76 Page 76 Page 76 Page 76 Page 76 Page 76 Page 76 Page 77	22		22	amongst the packets associated with Network A112, one
24 column 21, lines 43 to 67. 24 packet-header information. 25 A Okay. I'm there. 25 Do you see that? 21 M. GOODRICH 1 M. GOODRICH 1 M. GOODRICH 2 A Yes. 2 applying that rule one at a time on packet-by-packet basis, but by applying that rule one at a time on a packet-by-packet basis, you necessarily would be processing multiple packets at a time? 5 Instead of saying that it's processing 7 Q To apply a rule that identifies multiple 10 that when you process things on packet-by-packet basis, but when you do 7 Q Vell, here it says: The rule specifying the application-layer packet information may identify one or more HTTP packets. Q Vell, here it says: The rule specifying the application-layer packet information may identify one or more HTTP packets. So it may identify multiple packets at one time? 16 Right? So it may identify more than one packet? Aren't you reading the word, or more, or packets? Aren't you reading the word, or more, or packets? Aren't you reading the word, or more, or packets? Aren't you reading the word, or more, or of this? A No, I am absolutely not doing that. 21 23 Instead, you could have one rule, for 22 Things on apacket by cacket stat at could applice packets that could 24 24	23		23	or more packets comprising the application-layer
Page 76Page 771M. GOODRICH2A Yes.3Q So isn't this example stating that the4system here is being implemented such that the rules5look at more than one packet at a time?6A I think that's a mischaracterization of7what it's saying.8Instead of saying that it's processing9things on packet-by-packet basis, but when you do11basis, you can process things on packet-by-packet12processing multiple packets, each one at a time.13Q Well, it says: The rule specifying the14application-layer packet information may identify one15or more HTTP packets.16Right? So it may identify more than one17packets? Aren't you reading the word, or more19Q Well, why does it say one or more19Q Well, why does it say one or more10A No, I am absolutely not doing that.12A No, I am absolutely not doing that.13Instead, you could have one rule, for24example, that implicates multiple packets that could24example, that implicates multiple packets that could	24		24	
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	25			

20 (Pages 74 to 77)

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1	M. GOODRICH	1	M. GOODRICH
2	gateway may identify, from amongst the packets	2	and, hence, from amongst that set of things that's
3	associated with Network A112, one or more packets	3	coming in, you'll be selecting multiple packets that
4	comprising the application-layer packet-header	4	are coming out.
5	information.	5	It's now sort of taking a step back and
6	The words, from amongst the packets,	6	saying, when you're processing things on a
7	doesn't that tell a person of ordinary skill in the	7	packet-by-packet basis, you still might be
8	art that it's looking at multiple packets and	8	implicating multiple packets in the flow, but you're
9	selecting the packets that comprise the	9	processing them one at a time.
10	application-layer packet-header information.	10	Q Well, to identify what's from amongst the
11	A It's not doing that all at once. It's	11	group, you have to find a way to delineate what's in
12	doing it on a packet-by-packet basis.	12	the group and, therefore, somehow group the packets
13	Q How do you know that?	13	together?
14	A So, yeah.	14	A I think you're reading this incorrectly.
15	That's literally what the words state	15	I think it's referring to this in set
16	here.	16	terminology. Not in terms of computation. So from
17	Q It says it's looking at it from amongst	17	amongst that group, in a set sense, in the set in
18	the packets. Then it's looking at the packets as a	18	like set theoretic sense, you will be selecting
19	group and selecting the packets that it wants.	19	multiple things, but you don't have to be looking at
20	A No, that's not what it's saying.	20	the whole thing as a group.
21	It's saying just in using set	21	Q Well, it's a two-step process, correct?
22	terminology from among that group of things that's	22	A I don't understand what you mean by
23	coming in and you're processing on a packet-by-packet	23	two-step process.
24	basis just like I said right at the beginning	24	Q Well, first it says: The rule specifying
25	multiple of those packets could satisfy your rules	25	an application may identify one or more packets and
	Page 80		Page 81
1	M. GOODRICH	1	M. GOODRICH
2			
2	then, from the packets associated with the network,	2	application-layer packet-header information and
3	one or more packets comprising the application-layer	2 3	application-layer packet-header information and packet-transformation function to be performed on
3 4	one or more packets comprising the application-layer packet-header information.	2 3 4	application-layer packet-header information and packet-transformation function to be performed on packets comprising the application-layer
3 4 5	one or more packets comprising the application-layer packet-header information. A Yes, it's describing the behavior of such	2 3 4 5	application-layer packet-header information and packet-transformation function to be performed on packets comprising the application-layer packet-header information.
3 4 5 6	one or more packets comprising the application-layer packet-header information. A Yes, it's describing the behavior of such a system. But even though you're processing things	2 3 4 5 6	application-layer packet-header information and packet-transformation function to be performed on packets comprising the application-layer packet-header information. Correct?
3 4 5 6 7	one or more packets comprising the application-layer packet-header information. A Yes, it's describing the behavior of such a system. But even though you're processing things on the packet-by-packet basis, one or more packets	2 3 4 5 6 7	application-layer packet-header information and packet-transformation function to be performed on packets comprising the application-layer packet-header information. Correct? A Yes.
3 4 5 7 8	one or more packets comprising the application-layer packet-header information. A Yes, it's describing the behavior of such a system. But even though you're processing things on the packet-by-packet basis, one or more packets might satisfy the rule. That's possible. And one or	2 3 4 5 6 7 8	application-layer packet-header information and packet-transformation function to be performed on packets comprising the application-layer packet-header information. Correct? A Yes. Q So the word here packets is plural? It
3 4 5 6 7 8 9	one or more packets comprising the application-layer packet-header information. A Yes, it's describing the behavior of such a system. But even though you're processing things on the packet-by-packet basis, one or more packets might satisfy the rule. That's possible. And one or more packets might be satisfying the rule involving	2 3 4 5 6 7 8 9	application-layer packet-header information and packet-transformation function to be performed on packets comprising the application-layer packet-header information. Correct? A Yes. Q So the word here packets is plural? It doesn't say a packet?
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21 (Pages 78 to 81)

	Page 82		Page 83
1	M. GOODRICH	1	M. GOODRICH
2	A I don't I don't believe that that's	2	packets comprising the application-layer
3	what it's disclosing. I believe it's disclosing	3	packet-header information?
4	you're still processing things on packet-by-packet	4	A Then you get this whole concept, which is
5	basis, but implicating multiple packets when you do	5	also part of the limitations of the Claim 1, about
6	it that way.	6	the network that's protected by the packet security
7	Q If that's the case, why doesn't it just	7	gateway.
8	say identify packets comprising the application-layer	8	And that's an important phrase that
9	packet-header information in Step 1106?	9	reappears in the limitations of Claim 1, for example.
10	A I don't understand the question. Sorry.	10	Q But that's already covered in Step 1104?
11	Q Your reading makes the phrase, from	11	A I'm not a lawyer, but I I think that
12	amongst packets associated with the network protected	12	it's trying to refer to the same set of packets.
13	by the packet security gateway, superfluous.	13	That's how I read this.
14	MR. PRICE: Objection to counsel	14	
14	•	15	Q Staying in the '213 patent, I'd like to look at column ten.
	testifying.	16	
16	THE WITNESS: I don't believe that	17	
17	that's what I'm saying.	18	Q Specifically lines 48 to 53.
18	BY MR. BLAKE:	19	A Okay. I'm there.
19	Q If it was really just looking at one		Q This line is referring to the process of
20	packet at a time, why does it include the clause,	20	encapsulating packets, is it not?
21	from amongst packets associated with a network	21	A Yes, that's correct.
22	protected by the packet security gateway? That	22	Q What does encapsulation mean to you, in
23	clause wouldn't be necessary?	23	this context?
24	A I disagree.	24	A In this context, it's referring to
25	Q Why wouldn't it just say, identify	25	this the technology where you take a packet and
	Page 84		Page 85
1	Page 84 M. GOODRICH	1	
1 2	M. GOODRICH	1 2	Page 85 M. GOODRICH A Yes.
	M. GOODRICH put it in as the payload inside of another packet.		M. GOODRICH A Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	M. GOODRICH put it in as the payload inside of another packet. That's what I mean by encapsulation here. Q Would encapsulation, as you have defined it here, have been known to a person of ordinary skill in the art prior to the priority date for the '213 patent? A I believe this passage is literally citing to an RFC 2003 that discloses that. Q Are you familiar with RFC 2003? A Yes. Q Was RFC 2003 known to persons of ordinary skill in the art prior to the priority date for the '213 patent? A I would not dispute that that would be known. Q Okay. If we look in the '213 patent to column 11. A Okay. Q Specifically, I'd like to look down to lines 54 to 57. A All right.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	M. GOODRICH A Yes. Q And one of the logging system standards that's referred to is syslog? A Yes, I see that. Q Are you familiar with syslog? A Yes. Q Was syslog a known logging system standard prior to the priority date for the '213 patent? A Yes. Q All right. I'd like to move on from the '213 patent and go back for a moment to the Institution Decision issued by the board in this matter. A Okay. I have that in front of me. A the top of page 22 of the Institution Decision, there is discussion of the Narayanaswamy reference. A Okay. Q And there is a sentence that reads:

22 (Pages 82 to 85)

	Page 86		Page 87
1	M. GOODRICH	1	M. GOODRICH
2	packet (e.g., HTTP), and using the classifier module	2	Q About the seventh line down, there's a
3	to associate a policy with the packet.	3	sentence that reads: Quote, Claim 1 is not limited
4	Do you see that?	4	to any particular routing path and does not preclude
5	A Yes.	5	further routing of the packets from the monitoring
6	Q Do you agree with that sentence?	6	device."
7	A Let me look back to Narayanaswamy's	7	I believe that's referring to Claim 1 of
8	Paragraph 50.	8	the '213 patent.
9	Sorry. Counsel, can you repeat the	9	I want to know, do you agree with that
10	question, please.	10	sentence in the Institution Decision?
11	Q Sure. Paragraph the Institution	11	A That was not an opinion I needed to make
12	Decision states on page 22 at the top: Quote,	12	for my analysis. The claim doesn't talk about what
13	Paragraph 50 of Narayanaswamy discloses extracting	13	happens after you route to the monitoring device.
14	application-layer information and payload data from	14	Q So you this is a part of the
15	headers, determining the characteristics of the	15	Institution Decision that you did not consider?
16	packet (e.g., HTTP), and using the classifier module	16	A No, I did consider it, it's just not
17	to associate a policy with the packet.	17	something that forming an opinion about was necessary
18	Dr. Goodrich, do you agree with that	18	because it doesn't it doesn't it doesn't limit
19	statement in the Institution Decision?	19	or restrict or interpret anything about the claim
20	A It's a high level summary of this	20	because it's the claim just says routing. It
21	Paragraph 50 but, just sitting here today, I'm not	21	doesn't say anything about what happens after that.
22	seeing anything that I would disagree with.	22	Q So would you agree that the claim doesn't
23	Q Staying in the Institution Decision, if	23	limit any particular routing path?
24	you'll turn to page 29.	24	A I mean, depending on what you mean by
25	A Okay.	25	path.
	Page 88		Page 89
1	M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH It still has to be something that works	2	M. GOODRICH A Okay.
2 3	M. GOODRICH It still has to be something that works on the packet-by-packet basis, but assuming that	2 3	M. GOODRICH A Okay. Q I'd like to go back to your Declaration
2 3 4	M. GOODRICH It still has to be something that works on the packet-by-packet basis, but assuming that you're doing it in that way that meets the limitation	2 3 4	M. GOODRICH A Okay. Q I'd like to go back to your Declaration and do that in combination with discussion of the
2 3 4 5	M. GOODRICH It still has to be something that works on the packet-by-packet basis, but assuming that you're doing it in that way that meets the limitation of Claim 1, then the specific routers that you go	2 3 4 5	M. GOODRICH A Okay. Q I'd like to go back to your Declaration and do that in combination with discussion of the Narayanaswamy reference.
2 3 4 5 6	M. GOODRICH It still has to be something that works on the packet-by-packet basis, but assuming that you're doing it in that way that meets the limitation of Claim 1, then the specific routers that you go through along the way, I don't see how that's	2 3 4 5 6	M. GOODRICH A Okay. Q I'd like to go back to your Declaration and do that in combination with discussion of the Narayanaswamy reference. A So we're going back to Narayanaswamy?
2 3 4 5 6 7	M. GOODRICH It still has to be something that works on the packet-by-packet basis, but assuming that you're doing it in that way that meets the limitation of Claim 1, then the specific routers that you go through along the way, I don't see how that's relevant.	2 3 4 5 6 7	M. GOODRICH A Okay. Q I'd like to go back to your Declaration and do that in combination with discussion of the Narayanaswamy reference. A So we're going back to Narayanaswamy? Q Yeah, and I'd like to talk about
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23 (Pages 86 to 89)

	Page 90		Page 91
1	M. GOODRICH	1	M. GOODRICH
2	Q Does the Narayanaswamy system always	2	which you had all these were stored there, ready
3	choose which policies to apply based on these	3	to go. You had just said you weren't going to use
4	monitored parameters?	4	them for a while.
5	A Narayanaswamy, as we talked about earlier	5	These are shown, for example, in Figure 2
б	today, also has this notion of applying policies	6	from Narayanaswamy, that based on the performance,
7	based on the flows. So that's another way that it	7	you then can go back to that.
8	does it's using the term policy.	8	Q So if we look at Paragraph 6 of
9	Here what I'm referring to is this	9	Narayanaswamy
10	fundamental architecture design of Narayanaswamy	10	A Okay. I'm there.
11	which is based on system resource parameters, that it	11	Q Take a moment to read that.
12	decides whole classes of policies to apply or not	12	A Okay.
13	apply based on these parameters so that, if, for	13	Q In Paragraph 6, there's a sentence in
14	example, it's applying a policy that requires a lot	14	in the second column here on page one that reads:
15	of overhead and the network is very congested, you	15	Quote, Alternatively, or in addition, certain
16	could then decide that you're now going to wait and	16	policies may be used to limit the application of
17	not do that policy until things get less congested.	17	those security services to a range of the current
18	Q But if things are less congested,	18	packet flows through the IDP device, such as all
19	Narayanaswamy discloses that you can apply the	19	packet flows, only existing packet flows, only packet
20	policies to all network flows without taking the	20	flows matching certain criteria, and the like.
21	internal system resources into account, correct?	21	Closed quote.
22	A No, I think that's not what I'm saying.	22	Do you see that?
23	What I'm saying is that, taking the	23	A Yes.
24	system resource parameters into effect, when things	24	Q So doesn't that tell a person of ordinary
25	get better again, you can go back to those policies	25	skill in the art that the Narayanaswamy system can be
	Page 92		Page 93
1		1	
1 2	M. GOODRICH	1 2	M. GOODRICH
1 2 3	M. GOODRICH implemented such that it is applied to all packet		M. GOODRICH security devices to a range of the current packet
2	M. GOODRICH implemented such that it is applied to all packet flows regardless of these system resource parameters	2	M. GOODRICH
2 3	M. GOODRICH implemented such that it is applied to all packet flows regardless of these system resource parameters that you discuss in your Declaration?	2 3	M. GOODRICH security devices to a range of the current packet flow, such as all flows, only existing flows or only flows that match certain criteria.
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	Page 94		Page 95
1	M. GOODRICH	1	M. GOODRICH
2	of the word alternatively.	2	That's why it's talking about all flows or just
3	Alternatively to a gradient based on	3	certain flows.
4	light to none in terms of the you know, this	4	If you're processing all the flows,
5	lightweight to none, you can have a gradient that	5	that's going to necessarily have more require more
6	involves the flows.	6	system resources than if you're just processing some
7	Q Okay. And the lightweight to none in the	7	of the flows, or even just one.
8	previous sentence that you're saying that this is an	8	Q Isn't it possible the person of ordinary
9	alternative to, that's discussing the utilization of	9	skill in the art would be considering different types
10	the internal resource systems, correct?	10	of flows just because you would be more concerned
11	A I think they both are talking about	11	with HTTP traffic than FTP traffic and it doesn't
12	resource using the resource parameters, but in the	12	have anything to do with the internal system
13	first instance the the the emphasis on this	13	resources?
14	gradient is on how much performance hit you take for	14	A In the context of this paragraph, I
15	those, whereas, the Alternatively, now you can do it	15	disagree that that's what this is saying.
16	based on the types of flows you choose, is another	16	Q I didn't ask that.
17	parameters, along with the system resource	17	I asked is it possible that a person who
18	programmers.	18	would be concerned about what flows to track based on
19	Q The sentence starts with Alternatively.	19	what type of information is included in different
20	How does it tie the policies that you	20	flows?
21	choose based on flows in any way to internal resource	21	A I'm not understanding your question. I
22	utilization?	22	thought you were asking in the context of this
23	A Oh, because some a person of ordinary	23	paragraph.
24	skill in the art would understand that processing	24	Q I'm asking you, is it possible that a
25	certain flows would have different overhead to them.	25	person of ordinary skill in the art would determine
	Page 96		Page 97
1		1	
1 2	M. GOODRICH	1 2	M. GOODRICH
∠ 3	what policies to apply by analyzing what different types of flows of information may be included and	3	Q I'm not askingA Are you asking about a POSA that is not
4	received at a network a network router, for	4	even looking to Narayanaswamy anymore?
5	instance, such as HTTP traffic versus FTP traffic?	5	Q That's correct?
6	A And just for clarification, are you	6	A That's not an opinion that I was asked to
3 7	asking this now in the context of Paragraph 6 or in a	7	render. I would have to think about that in more
8	more general context?	8	detail.
9	Q In a more general context.	9	Q Okay. Now let's ask
10	A Oh, could you specify the context, then,	10	A I was looking at a POSA with respect to
11	you're talking about? In the context of my	11	the cited prior art that Dr. Jeffay cited.
12	Declaration, perhaps, some passage in my Declaration?	12	Q Okay. And in the context of
13	Q No, I'm asking you a question.	13	Narayanaswamy, does the sentence say that the packet
14	A You're now putting aside Narayanaswamy?	14	flows that are selected would be based on the
15	Q I'm asking you a question.	15	specific system resources?
16	Could would a POSA, looking at network	16	A Which sentence are we talking about now?
17	traffic received at a router, is going to apply	17	Q The one we've been talking about the
18	certain security policies, consider which policies to	18	whole time in Paragraph 6, the Alternatively
19	apply by differentiating different types of packet	19	sentence?
20	flows, such that it may only wish to apply traffic to	20	A And what is the question again?
21	one type of packet flow and not another a policy	21	Q Does that Alternatively sentence say
22	to one type of packet flow and not another?	22	anything about selecting the policies to apply to
23	A And, again, just for clarification,	23	particular packet flows based on internal resource
24	you're asking this in the very general context that	24	utilization?
25	does not include the teachings of Narayanaswamy?	25	A I believe it's implied when it's talking

25 (Pages 94 to 97)

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	Page 98		Page 99
1	M. GOODRICH	1	M. GOODRICH
2	about how you can do it either for all the packet	2	Narayanaswamy, may decide not to process flows
3	flows or only some or only one. That's about	3	process any policies relating to flows for FTP
4	that's dealing with system resources, and it's coming	4	packets, correct?
5	in this whole context when it's talking about the	5	A For example, if the system resources
6	system resources.	6	are are congested, it might decide not to do FTPs
7	Q Why couldn't it also be looking at	7	anymore.
8	deciding it based on the type of packet flow?	8	Q It may decide to do FTPs without regard
9	A It is doing it based on the type of	9	to system resources; isn't that right?
10	packet flow in the context of the system resources.	10	A That's not what's being taught in this
11	Q Why wouldn't it make a decision on	11	paragraph.
12	what	12	If you have another passage in there from
13	A Maybe I'm not understanding your	13	Narayanaswamy we can discuss, I'd be happy to do
14	question.	14	that.
15	Q Why wouldn't it make a decision on what	15	Q How does the Alternatively sentence
16	type of policy to apply based on what type of	16	exclude my scenario?
17	information is in the packet flow?	17	A Because, as I said, I read the
18	A I must not be understanding your	18	Alternatively to be an alternative to the very
19	question.	19	previous sentence in that paragraph.
20	Because it is deciding what to do based	20	Q In that case, what does the term in
21	on its characterization of the packet flow in this	21	addition mean?
22	context of the system resources, because some	22	The sentence says Alternatively or in
23	flows processing all the flows is going to be more	23	addition.
24	expensive than just processing one.	24	A Right. So it means just the plain and
25	Q So it may decide the system, in	25	ordinary meaning of those terms.
	2 - - - - - - - - - -		
	Page 100		Page 101
1	M. GOODRICH	1	M. GOODRICH
2	But reading it, in my opinion, on the	2	three-dimensional, now, situation where you're
3	previous sentence, it talks about how you can have	3	bringing in the system resource parameters to even
4	this range from none to lightweight or to complete.	4	talk about which two dimensions we're even going to
5	And rather than having that range, you can	5	discuss here.
6	alternatively, or in addition to that range, have	6	Q If we look at Paragraph 68 of your
7	these policies that are also based on the flow	7	Declaration
8	characteristics, that with both of those being in	8	A I'm there.
9	this context of looking at the system resource	9	Q it states that: Narayanaswamy
10	parameters.	10	discloses that multiple IDP devices, 110A through N,
11	Q Well, if I'm already looking at a	11	are deployed inside Private Network 112, coupled to
12	gradient of security services ranging from none or	12	Public Network 114.
13	lightweight to complete or rich security services,	13	Do you see that?
14	why do I need to look at the type of packet flow in	14	A Yes.
15	addition?	15	Q Referring to Figure 6; is that correct?
16	A Because then you get you get a	16	A I think so. Let me just double check.
17	two-dimensional performance gradient, first, based on	17	It's also discuss disclosed in
18	the security services and then, secondly, on the flow	18	Paragraphs 105 to 107, as well.
19	types.	19	Q So in Narayanaswamy Figure 1
20	Q So if I was going to potentially look at	20	A I'm there.
21	the two-dimensional, I could also decide that I just	21	Q you would agree that this disclosure
22	want to look at either one of the other dimensions by	22	is of only one IDP device within the private network,
23	itself?	23	correct?

Right, but in both instances, you're

doing it -- actually, it's sort of a

24

25

А

correct? A Yes.

Q All right. We can put aside the

26 (Pages 98 to 101)

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	Page 102		Page 103
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1	M. GOODRICH		M. GOODRICH
2	Narayanaswamy reference.	2	it's an anomaly. So something unexpected to the
3	A Okay.	3	system would be something that would be logged in the
4	Q All right. Looking in Kapoor, Exhibit	4	context of anomaly logging.
5	1013, I'd like to discuss Paragraph 87 of Kapoor.	5	Q As a person of ordinary skill in the art,
6	A Is that the back? All right.	6 7	reading this paragraph, would you understand anomaly
7	Eighty-seven. I'm there.		logging to include the logging of malicious traffic?
8	Q About halfway down Paragraph 87 in	8	A Not necessarily. It would have to say
9	Kapoor, there is a reference to the system in Kapoor	9	what it means and it didn't say.
10 11	performing anomaly logging. Do you see that?	10 11	Q Could it include logging of malicious traffic?
12	A Yes, I see that.	12	A I would be uncomfortable speculating. It
13	Q What does that mean to you?	13	just says anomaly and doesn't go into detail about
14	A That you're logging something that would	14	what that means.
15	be unexpected. That's what is meant by an anomaly.	15	Q But you're not uncomfortable citing it's
16	Q That could include malicious traffic?	16	something unexpected, you're just uncomfortable
17	A This paragraph doesn't say what anomaly	17	defining something unexpected is?
18	logging is referring to.	18	A No, that's incorrect. I'm not
19	Q Well, you just said that you thought it	19	uncomfortable defining what anomaly means. But then
20	meant referring to something unexpected. So you were	20	it give specific instances in the context of Kapoor,
21	able to give it your opinion as to what it means.	21	I would want to look to Kapoor's detail.
22	And I want to know is it something	22	Because this is now coming in now in the
23	unexpected that could include, could that be	23	summary of Kapoor, I would want to then be looking to
24	malicious traffic that's being logged?	24	the details to see if, perhaps, it has more details
25	A The paragraph doesn't say. It just says	25	on what it means by anomaly.
20			on what it means by anomaly.
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	Page 104		Page 105
1	Page 104 M. GOODRICH	1	Page 105 M. GOODRICH
1 2	M. GOODRICH	1 2	M. GOODRICH
	M. GOODRICH Q Does Kapoor focus on packet filtering?		
2	M. GOODRICH Q Does Kapoor focus on packet filtering? A So Kapoor self identifies what its field	2	M. GOODRICH of packets and other information in Kapoor, correct?
2 3	M. GOODRICH Q Does Kapoor focus on packet filtering?	2 3	M. GOODRICH of packets and other information in Kapoor, correct? A I would not characterize it that way.
2 3 4	M. GOODRICH Q Does Kapoor focus on packet filtering? A So Kapoor self identifies what its field of endeavor is. It says so in Paragraph 4.	2 3 4	M. GOODRICH of packets and other information in Kapoor, correct? A I would not characterize it that way. Q Well, halfway down in the paragraph
2 3 4 5	M. GOODRICH Q Does Kapoor focus on packet filtering? A So Kapoor self identifies what its field of endeavor is. It says so in Paragraph 4. It says, specifically it says first:	2 3 4 5	M. GOODRICH of packets and other information in Kapoor, correct? A I would not characterize it that way. Q Well, halfway down in the paragraph there's a sentence that reads: The logging database
2 3 4 5 6	M. GOODRICH Q Does Kapoor focus on packet filtering? A So Kapoor self identifies what its field of endeavor is. It says so in Paragraph 4. It says, specifically it says first: The invention is the in the field of computer	2 3 4 5 6	M. GOODRICH of packets and other information in Kapoor, correct? A I would not characterize it that way. Q Well, halfway down in the paragraph there's a sentence that reads: The logging database may contain a log of alerts 442, packets 402, data
2 3 4 5 6 7	M. GOODRICH Q Does Kapoor focus on packet filtering? A So Kapoor self identifies what its field of endeavor is. It says so in Paragraph 4. It says, specifically it says first: The invention is the in the field of computer security and protection. Specifically, it is in the	2 3 4 5 6 7	M. GOODRICH of packets and other information in Kapoor, correct? A I would not characterize it that way. Q Well, halfway down in the paragraph there's a sentence that reads: The logging database may contain a log of alerts 442, packets 402, data cells 408, or information associated with any and all
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	M. GOODRICH Q Does Kapoor focus on packet filtering? A So Kapoor self identifies what its field of endeavor is. It says so in Paragraph 4. It says, specifically it says first: The invention is the in the field of computer security and protection. Specifically, it is in the field of protecting computer systems from viruses, attacks from hackers and other unauthorized intrusions, spyware, spam, phishing with a p-h and other scams, malicious activities and code. So I would that's how I would characterize Kapoor. Q And would you consider that as anomaly detection? A Anomaly detection is something that could be involved in those activities, but you'd have to look to Kapoor's details to see what it's meaning by anomaly. Q Let's look to Paragraph 211 of Kapoor.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	M. GOODRICH of packets and other information in Kapoor, correct? A I would not characterize it that way. Q Well, halfway down in the paragraph there's a sentence that reads: The logging database may contain a log of alerts 442, packets 402, data cells 408, or information associated with any and all of the foregoing. Do you see that? A Yes. Q So the logging database in Kapoor may contain a log of packets, as this sentence discloses, correct? A Yes. Q And that would be a log of the entire packet itself? A I don't have any reason to think it wouldn't be the whole packet. Q Okay. It also says: Information associated with any or all of the foregoing.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	M. GOODRICH Q Does Kapoor focus on packet filtering? A So Kapoor self identifies what its field of endeavor is. It says so in Paragraph 4. It says, specifically it says first: The invention is the in the field of computer security and protection. Specifically, it is in the field of protecting computer systems from viruses, attacks from hackers and other unauthorized intrusions, spyware, spam, phishing with a p-h and other scams, malicious activities and code. So I would that's how I would characterize Kapoor. Q And would you consider that as anomaly detection? A Anomaly detection is something that could be involved in those activities, but you'd have to look to Kapoor's details to see what it's meaning by anomaly. Q Let's look to Paragraph 211 of Kapoor. A I'm there. Q So do you need a moment to review it? A Sure. Thank you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	M. GOODRICH of packets and other information in Kapoor, correct? A I would not characterize it that way. Q Well, halfway down in the paragraph there's a sentence that reads: The logging database may contain a log of alerts 442, packets 402, data cells 408, or information associated with any and all of the foregoing. Do you see that? A Yes. Q So the logging database in Kapoor may contain a log of packets, as this sentence discloses, correct? A Yes. Q And that would be a log of the entire packet itself? A I don't have any reason to think it wouldn't be the whole packet. Q Okay. It also says: Information associated with any or all of the foregoing. Do you see that? A Yes. Q Would a person of ordinary skill in the

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	7 100		5 105
	Page 106		Page 107
1	M. GOODRICH	1	M. GOODRICH
2	A Well, information is a very broad term.	2	ruling that out, but it is talking, in the earlier
3	It can refer to things that aren't even in the	3	part of the paragraph, about modifying the
4	packet. It's just information about the packet.	4	modification to a logging database. That's the
5	Q Since information is a broad term, could	5	context. And it talks about what the logging
6	it also refer to a subset of the information in the	6	database can contain.
7	packet?	7	You'd have to also read into the context
8	A It doesn't say. It just says associated	8	of this modification sentence.
9	with. Based on that, I I wouldn't jump to the	9	Q I'd like to talk about Paragraph 179 of
10	immediate conclusion that it's taking a subset of the	10	your Declaration.
11	packet.	11	A I'm there.
12	Q Well, I'm asking you as a person of	12	Q In Paragraph 179 of your Declaration, you
13	ordinary skill in the art reading this, would you	13	quote Paragraph 501 of Kapoor, if you want to take a
14	understand the phrase, information associated with	14	moment to look at it.
15	any or all of the foregoing, to mean that it could	15	A Yes. I see that and I've finished
16	include information that is a subset of what's in the	16	reading it.
17	packet?	17	Q You bolded a section here that relates to
18	A It's too broad to try to speculate. I	18	packets being directed to a security port for further
19	would feel uncomfortable trying to speculate.	19	analysis.
20	It's just information related to the	20	Do you see that?
21	packets it's associated with. That's how I read	21	A That's correct.
22	this.	22	Q What do you understand the phrase further
23 24	Q Is there any reason it could not include	23	analysis to mean in that context?
24 25	information that is a subset of the packet?	24	A Just what it says, that there would be
20	A Just from that sentence alone, it's not	25	other analysis done in addition to the analysis, for
	Page 108		Page 109
-	Page 108		Page 109
1	M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH example, that would involve this redirection.	2	M. GOODRICH A It's not disclosed here in Kapoor.
2 3	M. GOODRICH example, that would involve this redirection. Q Is it possible that it could mean that	2 3	M. GOODRICH A It's not disclosed here in Kapoor. That's not disclosed. That's what I'm saying in
2 3 4	M. GOODRICH example, that would involve this redirection. Q Is it possible that it could mean that the packet is sent to a monitoring device for that	2 3 4	M. GOODRICH A It's not disclosed here in Kapoor. That's not disclosed. That's what I'm saying in Paragraph 180.
2 3 4 5	M. GOODRICH example, that would involve this redirection. Q Is it possible that it could mean that the packet is sent to a monitoring device for that further analysis to occur?	2 3 4 5	M. GOODRICH A It's not disclosed here in Kapoor. That's not disclosed. That's what I'm saying in Paragraph 180. Q Is it possible? I'm asking you as a
2 3 4 5 6	M. GOODRICH example, that would involve this redirection. Q Is it possible that it could mean that the packet is sent to a monitoring device for that further analysis to occur? A That's not what is taught, as I explained	2 3 4 5 6	M. GOODRICH A It's not disclosed here in Kapoor. That's not disclosed. That's what I'm saying in Paragraph 180. Q Is it possible? I'm asking you as a person of ordinary skill in the art.
2 3 4 5 6 7	M. GOODRICH example, that would involve this redirection. Q Is it possible that it could mean that the packet is sent to a monitoring device for that further analysis to occur? A That's not what is taught, as I explained in my Paragraph 180.	2 3 4 5 6 7	M. GOODRICH A It's not disclosed here in Kapoor. That's not disclosed. That's what I'm saying in Paragraph 180. Q Is it possible? I'm asking you as a person of ordinary skill in the art. A I don't want to speculate about things
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28 (Pages 106 to 109)

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1		-	
1	M. GOODRICH	1	M. GOODRICH
2	Q In the Kapoor reference, Exhibit 1013,	2	Q In Paragraph 97, when talking about
3	would you look to Paragraph 70. A Looking for 70. Okay. Hold on. I'm	3	Kapoor, it talks about its system and you bolded
4	e .	4 5	this language may have a situation where memory
5	there.	6	utilization increases linearly with the number of
6 7	Q All right. If you'll take a look at it.	7	expressions and/or wherein there may be untenable
8	A Okay. Q In Kapoor Paragraph 70, it discusses the	8	increases in computation complexity. Do you see that?
o 9	methods and systems that are implemented in Kapoor,	9	A Yes.
10	and it talks about, in the second sentence, security	10	Q And you've cited that in your
11	policies that may support one or more of and it	11	Declaration, correct?
12	gives a string list, correct?	12	A Correct.
13	A Yes.	13	Q Kapoor was filed in October of 2007; is
14	Q One of the things in that string is URL	14	that right?
15	filtering, is that correct?	15	A Yes.
16	A Yes.	16	Q In the upper right-hand corner of Kapoor,
17	Q So Kapoor is also looking at packet	17	the publication of date of it is September 18th,
18	filtering; is that right?	18	2008; is that right?
19	A No, it's talking about URL filtering.	19	A Yes.
20	Q Is URL filtering a subset of packet	20	Q So the computation complexity
20	filtering?	21	contemplated by Kapoor would be at the time at
22	A I don't think so.	22	least as early as the time of its publication in 2008
23	Q If we look at Paragraph 97 of your	23	is when it was talking about its computational
24	Declaration.	24	complexities, at that time, correct?
25	A I'm there.	25	A No, that's misreading this sentence.
20	A Thirdlete.		
	Page 112		Page 113
1	Page 112 M. GOODRICH	1	Page 113 M. GOODRICH
1 2	M. GOODRICH	1 2	M. GOODRICH
	M. GOODRICH		M. GOODRICH
2	M. GOODRICH Q Why?	2	M. GOODRICH Q But the ability to handle system
2 3	M. GOODRICH Q Why? A Because this is referring to computation	2 3	M. GOODRICH Q But the ability to handle system expressions the number of expressions that could
2 3 4	M. GOODRICH Q Why? A Because this is referring to computation complexity in the broad sense, the sense that we	2 3 4	M. GOODRICH Q But the ability to handle system expressions the number of expressions that could be handled by a system certainly would have increased
2 3 4 5	M. GOODRICH Q Why? A Because this is referring to computation complexity in the broad sense, the sense that we teach to undergrads in, for example, our algorithm	2 3 4 5	M. GOODRICH Q But the ability to handle system expressions the number of expressions that could be handled by a system certainly would have increased over the six-year period from 2008 to 2014 in an art
2 3 4 5 6	M. GOODRICH Q Why? A Because this is referring to computation complexity in the broad sense, the sense that we teach to undergrads in, for example, our algorithm classes. It's related to something called the Big O	2 3 4 5 6	M. GOODRICH Q But the ability to handle system expressions the number of expressions that could be handled by a system certainly would have increased over the six-year period from 2008 to 2014 in an art where things turn over every year and half or so,
2 3 4 5 6 7	M. GOODRICH Q Why? A Because this is referring to computation complexity in the broad sense, the sense that we teach to undergrads in, for example, our algorithm classes. It's related to something called the Big O notation that I teach, as well, and it's talking	2 3 4 5 6 7	M. GOODRICH Q But the ability to handle system expressions the number of expressions that could be handled by a system certainly would have increased over the six-year period from 2008 to 2014 in an art where things turn over every year and half or so, correct?
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29 (Pages 110 to 113)

	Page 114		Page 115
1	M. GOODRICH	1	M. GOODRICH
2	to my students in my algorithm classes.	2	THE WITNESS: That's not what I
3	Q Well, I understand that that's what the	3	said, either. And such experience isn't
4	'213 patent says. That doesn't make that doesn't	4	necessary for this analysis.
5	mean it's necessarily true in the art.	5	BY MR. BLAKE:
6	And since you don't design these systems,	6	Q Isn't it true that the ability of
7	you wouldn't know if the capability of systems to	7	computer systems to handle an increasing amount of
8	handle this increased memory utilization	8	data expressions improved between 2008 and 2014?
9	significantly improved in 2008 to 2014, would you?	9	A Yes, but the point is that, if the data
10	MR. PRICE: Objection to counsel's	10	that you need to store is growing exponentially, but
11	testifying.	11	your memory utilization and your memory
12	THE WITNESS: I disagree with what	12	utilization increases linearly with that number, you
13	you just said.	13	still can't keep up.
14	I believe that I do have the	14	That's the principles I teach when I
15	expertise to opine on these matters.	15	teach my algorithms classes, because I want to teach
16	BY MR. BLAKE:	16	my students in a way that teaches them principles
17	Q Well, you testified earlier that you	17	that aren't just about the technology of today, but
18	haven't designed or put these systems into use.	18	about principles that will last them for their entire
19	A That's incorrect. I said I have designed	19	careers.
20	systems. I haven't built physical systems.	20	Q So is it
21	Q Right. So you haven't actually used	21	A Principles that you can apply to across
22	systems in the industry?	22	the swath of history of computing as we know it.
23	A Which	23	Q So is it your testimony that, as of the
24	MR. PRICE: Objection.	24	priority date, there were no systems being marketed
25	Mischaracterizes testimony.	25	in the industry that were maintaining the number of
25	wisenaraeterizes testimony.	25	In the industry that were maintaining the number of
	Dama 116		Dec. 117
	Page 116		Page 117
1	Page 116 M. GOODRICH	1	M. GOODRICH
1 2		2	M. GOODRICH this approach in the industry in 2014?
	M. GOODRICH expressions and filtering based on the number of expressions known in the art at that time?		M. GOODRICH this approach in the industry in 2014? A That were using that embody Kapoor; is
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30 (Pages 114 to 117)

	Page 118		Page 119
1	M. GOODRICH	1	M. GOODRICH
2	Q So it's	2	that up. I think I have that in front of me. Yes.
			1
3	A We also have that presentation that we	3	I'm sorry. Is there a question pending?
4	talked about earlier, too.	4	Q No. I thought you were looking through
5	Q It's your experience, then, that well,	5	the Institution Decision.
б	based on your experience, you think that the PTABB	6	A Oh, I am. But I thought you were going
7	was incorrect in finding a motivation to combine?	7	to point me to something. Did you want me to read
8	A I believe that	8	the whole thing again?
9	MR. PRICE: Objection. Foundation.	9	Q No. I'll move onto a different topic.
10	THE WITNESS: Did they say I'm	10	A Okay. Fair enough.
11	sorry. Did they say their decision that	11	Q Let's look at Paragraph 120 of your
12	they found a motivation to combine, or	12	Declaration.
13	that they would just consider that as a	13	A I'm there.
14	part of their preliminary decision?	14	Q Paragraph 120, you start off by saying:
15	BY MR. BLAKE:	15	A POSA would be aware of multiple ways to achieve
16	Q Did they	16	QoS.
17	A I guess I'm not understanding your	17	Do you see that?
18	question. I'm not supposed to be asking questions.	18	A Yes.
19	I'm sorry.	19	Q And QoS is quality of service?
20		20	
	I'm not understanding your question.		
21	Q In the Institution Decision was there any	21	Q Would one of the ways that a POSA would
22	discussion that Narayanaswamy and Kapoor could not be	22	have been aware of to achieve QoS, as of the priority
23	combined?	23	date for the '213 patent, have been through the use
24	A I'm not recalling. If you have a place	24	of the DiffServ specification?
25	in the decision you'd like to point me to, I can look	25	A Yes, but that's not the only one. So
	Page 120		Page 121
	Page 120		Page 121
1	M. GOODRICH	1	M. GOODRICH
1 2		1 2	
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	Page 122		Page 123
1	M. GOODRICH	1	M. GOODRICH
2	according to the DiffServ specification?	2	Q Okay. Where are you looking?
3	A I don't understand the question. Sorry.	3	A First full paragraph.
4	Q Yes, the IPv4B service bits that were	4	Q Okay. Anywhere else?
5	being used in 2004 2014 excuse me, the priority	5	A That's the place I cited to.
6	date would they have been interpreted according to	6	Q Okay. Are you familiar with the IEEE
7	the DiffServ specification?	7	802.1p specification that you cite in your Paragraphs
			120 and 121?
8	A Did you include the DiffServ	8	
9	specification in the documents of materials? Do you remember what exhibit number it was?	9	A That was another one that I'm citing to
10 11		10 11	based on the specification that is described the
	Q I don't remember if I included it or not.	12	summary that's given in the DiffServ specification.
12	I may not have. Let me see here.		Q Are you familiar with how it works,
13	A Just thumbing through, I can't see it,	13	yourself?
14	and I'm citing to that DiffServ.	14	A I'm not recalling the details, as I sit
15	Q Yeah, it's Exhibit 1011.	15	here today.
16	A Okay.	16	Q Is it strictly for use with Layer 2
17	Q It is included in the materials that you	17	packets?
18	got?	18	A I'm not recalling the details as I sit
19	A It is. I just found it. Thank you for	19	here today.
20	pointing out which exhibit it was.	20	Q What details do you know about how
21	Yes, I'm citing to that description from	21	IntServ is implemented?
22	DiffServ that talks about these different things, so	22	A I cite to some of those here in my
23	what it's calling the IPv4 type of service QoS, as	23	these packages. That it's based on these other
24	coming before. So that's coming on, for example,	24	parameters that aren't in the packet, to decide
25	page ten of Exhibit 1011.	25	whether or not then you'd use this integrated
	Page 124		Page 125
1		1	
1 2	M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH services or RSVP metaphor.	2	M. GOODRICH Q Your Paragraph 120 says: A POSA would be
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32 (Pages 122 to 125)

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1	M. GOODRICH	1	M. GOODRICH
2	possibilities?	2	Q Is it fair to say that Layer 5
3	A Yes, but there's many possibilities. So	3	application information would determine whether and
4	immediately jumping to DiffServ is is a jump	4	what type of QoS you need?
5	that's not taught anywhere.	5	A In this example, we're talking about now
6	Q Okay. But you would know that DiffServ	6	a passage from Narayanaswamy, I believe. Yeah,
7	is one of the possibilities?	7	that's the reference.
8	A That is correct.	8	So we're talking about Narayanaswamy had
9	THE WITNESS: It's getting close to	9	this notion of a fast path and the first path, and
10	lunchtime, actually past my lunchtime	10	it's using this application layer, that's Layer 5
11	here in California. Can we take a lunch	11	information, for that.
12	break or are you getting close to being	12	Q To tell you whether you need QoS and what
13	done, if I can ask that question?	13	type of QoS you need, correct?
14	MR. BLAKE: Sure. I'm anticipating	14	A It's even more than that. It's doing the
15	I'll be done in about ten minutes.	15	QoS at the Layer 5, whereas DiffServ is the Layer 3
16	THE WITNESS: Then let's continue	16	protocol. So this is, in my opinion, teaching away
17	then.	17	from the DiffServ approach.
18		18	Q Wouldn't the system in Narayanaswamy
	MR. BLAKE: Okay. BY MR. BLAKE:		• • •
19		19	effectuate the QoS at Layer 3 by just determining
20	Q In Paragraph 125 of your Declaration, you	20	whether you need the QoS at Layer 5?
21	reference the fact that a POSA would recognize that	21	A So, in Narayanaswamy, when it's talking
22	these exemplary QoS implementations function at the	22	about this first path and fast path, it's referring
23	application layer, Layer 5.	23	to back to Paragraph, for example, 68, that's talking
24	Do you see that?	24	about these flows that happen inside the IDP device.
25	A Yes.	25	So I would not characterize that as being
	Page 128		Page 129
			Page 129
1		1	
1	M. GOODRICH	1	M. GOODRICH
2	M. GOODRICH a level three process.	2	M. GOODRICH it's basing it on the flow, so this is now the Layer
2 3	M. GOODRICH a level three process. Q Isn't that discussion just about what	2 3	M. GOODRICH it's basing it on the flow, so this is now the Layer 5 flow.
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33 (Pages 126 to 129)

	Page 130		Page 131
1	M. GOODRICH	1	M. GOODRICH
2	implemented?	2	A I'm not immediately recalling, as I sit
3	A I disagree.	3	here today, how big they were.
4	Q Is there changing topics.	4	Q If we could look to Paragraph 168 of your
5	Is there anything in HTTP that tells you	5	Declaration, that's the last subject matter I'd like
6	how long the headers in a HTTP packet are?	6	to touch on.
7	A They can be there's a variety of	7	A Okay. I'm there.
8	lengths that they can have.	8	Q This is discussing proprietary logging
9	Q Okay. So	9	systems, and it's discussing the SEIM.
10	A I'm not I guess I'm not understanding	10	Do you see that?
11	your question.	11	A Yes.
12	Are you asking if there's a fixed length	12	Q And it's discussing that SEIM may have
13	to HTTP headers?	13	used a proprietary logging system for Microsoft
14	Q Correct.	14	Windows-based computers.
15	A I don't believe so, just sitting here	15	Do you see that?
16	today.	16	A Yes.
17	Q Would that have been true as of the	17	Q Is there anything about SEIM systems that
18	priority date of the '213 patent?	18	requires that they use a proprietary log format?
19	A Yes.	19	A Not to my knowledge, as I sit here today.
20	Q As of the priority date of the '213	20	Q What about as of the priority date of the
21	patent, how big would a routing table have been?	21	'213 patent?
22	A I don't understand your question.	22	A I'm not aware of any as I sit here today.
23	Q Could I have a routing table and a	23	MR. BLAKE: Okay. I think I don't
24	router, as of the priority date of the '213 patent,	24	have any other questions.
25	that would have been gigabytes large?	25	MR. PRICE: All right. Can we just
	Page 132		
	Page 152		Page 133
1	M. GOODRICH	1	Page 133 M. GOODRICH
1 2		1 2	
	M. GOODRICH		M. GOODRICH
2	M. GOODRICH take a five-minute break. I've got to	2	M. GOODRICH you can have HTTP requests that comprise multiple
2 3	M. GOODRICH take a five-minute break. I've got to run to the bathroom. Then I'll have a	2 3	M. GOODRICH you can have HTTP requests that comprise multiple messages and multiple requests, and that attacks can
2 3 4	M. GOODRICH take a five-minute break. I've got to run to the bathroom. Then I'll have a short redirect.	2 3 4	M. GOODRICH you can have HTTP requests that comprise multiple messages and multiple requests, and that attacks can go across transaction boundaries. Q Paragraph 30 also discloses protocol-specific decoders that analyze
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	2	
1	M. GOODRICH	:
2	determinations between HTTP and FTP, for example.	
3	So it's a different type of	
4	classification.	4
5	Q In Paragraph 50, it says: Classifier	
6	module may be based on information extracted by one	
7	or more of the above described decoders, determining	·
8	that a first packet, for example, belongs to an HTTP	8
9	application.	9
10	Correct?	10
11	A Yes.	11
12	Q The owner (phonetic) above describes the	12
13	decoders the same decoders that are discussed in	13
14	Paragraphs 30 and 31?	14
15	MR. BLAKE: Objection to form.	15
16	THE WITNESS: It's a similar type	16
17	of decoder, but being used for slightly	17
18	different pattern matches here.	18
19	BY MR. PRICE:	19
20	Q Do you understand that the decoders	20
21	discussed in Paragraph 50 to operate on	21
22	application-layer messages or individual packets?	22
23	MR. BLAKE: Objection to form.	23
24	THE WITNESS: Could you repeat the	24
25	question, please?	25
	Page 136	
1	M. GOODRICH	.
2	the packet includes application-layer packet-header	
2	information or does it evaluate application layer	1

Page 135

1	M. GOODRICH
2	BY MR. PRICE:
3	Q Isn't it correct that the decoders
4	discussed in Paragraph 50 operate on assembled
5	reassembled application-layer messages in the same
6	way that the decoders discussed in Paragraphs 30 and
7	31 operate on reassembled application-layer messages?
8	MR. BLAKE: Objection to form.
9	THE WITNESS: Yes, I guess the
10	confusion I was having is the classifier
11	module 26 is operating with respect to
12	each packet, but it's going on and then
13	we're doing the protocol decoders on the
14	flows.
15	BY MR. PRICE:
16	Q The classifier module does classify
17	individual packets, correct?
18	A Yes.
19	Q Isn't it also correct that it does the
20	classification by using these decoders to evaluate
21	reassembled application-layer messages?
22	A Yes, that's what's being disclosed in
23	Paragraph 50.
24	Q Does the classifier module evaluate the
25	content of an individual packet to determine whether

Page 137

1	M. GOODRICH	1	M. GOODRICH
2	the packet includes application-layer packet-header	2	A It determines which policy to apply.
3	information, or does it evaluate application-layer	3	Q Does Narayanaswamy disclose any policy
4	information extracted from an assembled	4	that includes a rule specifying application-layer
5	application-layer message?	5	package-header information?
б	MR. BLAKE: Objection to form.	6	MR. BLAKE: Objection to form.
7	THE WITNESS: What it states in	7	THE WITNESS: No, not disclosed
8	Paragraph 50, it says: That is,	8	here.
9	classifier module 26 may, based on	9	BY MR. PRICE:
10	information extracted by one or more of	10	Q Could you please take out the Kapoor
11	the above-described decoders, determine	11	reference.
12	that a first packet, for example, belongs	12	A Okay. I have it.
13	to an HTTP application, while another	13	Q Do you recall earlier when you were
14	packet belongs to an FTP application.	14	discussing with counsel the term anomaly?
15	So it's basing this base this	15	A Yes.
16	classification based on what those	16	Q Please turn to Paragraph 130 in Kapoor.
17	decoders do, which operate on the flows.	17	A I'm there.
18	BY MR. PRICE:	18	Q Can you read through Paragraph 130 and
19	Q And specifically, the reassembled	19	then describe your understanding of how Kapoor uses
20	application-layer communications from the flows,	20	the term anomaly.
21	correct?	21	MR. BLAKE: Objection to form.
22	MR. BLAKE: Objection to form.	22	THE WITNESS: So Kapoor is
23	BY MR. PRICE:	23	explaining what it means by anomaly, and
24	Q Does Narayanaswamy's classifier apply	24	there's a couple a couple sentences I
25	policy or determine which policies to apply?	25	would highlight here that explain and

35 (Pages 134 to 137)

1 M. GOODRICH 2 summarize that. 3 The first is the opening sentence: 4 Network behavioral anomaly detection may be directed at the opening actual data flows to such a momalies. 6 detect anomalous data flows. 7 Q. And dy ous see where it says: Any and all packet inspection may be directed at the impection of data that necompasses a packet or flow of packets? 7 Q. And dy ous see where it says: Any and all packet inspection may be directed at the impection of data that necompasses a packet or flow of packets? 8 But it's being disclosed here as based on machine-kearning techniques that from and using data flows. 9 Port the anomalies discussing with counsel earlier? 9 A ref the anomalies discussed in Paragraph 130 the same as the anomalies that can be logged in the Summary section and this is coming in the Deteled Description. 9 Portuled Description. 9 Q. Could you please turn to Paragraph 23 of the paragraph 37 hat the anomalies that are being detected may include theyes, patterns in application-layer and they on you wot this. Statistion system reassembles packets in genetion directed at an the packets must be cassembled, moch in they anomalous detection that you now this you understanding that that's how Kappoor tases in packet on form. 9 N. GOODRICH 2 M. GOODRICH 3 M. GOODRICH		Page 138		Page 139
2 summarize that. 2 Kapoor. 3 The first is the opening sentance: 4 And further down is say: Then, by 4 And further down is say: Then, by 6 A 7 And further down is say: Then, by 7 Q And do you see where it says: Any and 9 model, it may be possible to detect 6 A Yes. 11 And then the models it's talking 11 A Sory. Where is that? 12 about are models built from data flows: 12 Q Second to last scentence. 13 But it's being disclosed here as 13 A Oh, yos. I see that. 14 how to determine anomalicus data flows: 13 A Oh, yos. I see that. 14 op Are the anomalies discussed in Paragraph 14 Q Yo see that. 15 based on machine-karming techniques 15 this was a high level statement, in that paragraph sto. 16 the same afte anomalise sticussed in Paragraph 13 A Oh, yos. New that the comparagraph sto. 17 M GOODRICH S A Yes. Yes. 18 M	1	M. GOODRICH	1	M. GOODRICH
3 The first is the opening sentence: 4 A A I'm there. 4 Network behavioral anomaly detection may be diverse anomalious data flows so as to detect anomalous data flows. 4 Q Do you recall discussing this paragraph 7 6 detect anomalous data flows. 7 Q A If there have have it says: Then, by comparing actual data flows to such a more models built from data flows. 7 Q A If there have possible to detect anomalous data flows. 7 Q A on the set mater. 7 Q A on the set mater. 7 Q A on the set mater. 7 Q A on yes. I see that. 7 Q Yes. 7 A on yes. I see that. 7 Q Yes. 7 A on yes. I see that. 7 Q Yes. 7 A on yes. I see that. 7 Q Yes. 7 A on yes. I see that. 7 Q Yes. 7 A on yes. I see that. 7 A on yes. I see that. 7 A yes. 7				
4 Network behavioral anomaly detection may monitor network duat flows as to detect anomalous data flows. 0 Do you recall discussing this paragraph cartier? 6 detect anomalous data flows. 7 Q And do you see where it says: Any and and the puestion in the packet inspection in you duestion in the anomalous detection and you and the paragraph 18 and the say and the it means flow and for you inderstanding that that's how for or packets? 1 M. GOODRICH 1 M. GOODRICH 2 A Yes. 2 3 A Yes. 2 4 Yes, it says that the theres a normal and anomalous would be inherently broad, correct? 4 A Yes.				•
5 monitor network data flows so as to 6 A Yes. 7 And further down it says: Then, by 6 A Yes. 8 comparing actual data flows to such a 7 Q And do you see where it says: Any and 9 model, it may be possible to detect 7 Q And do you see where it says: Any and 10 anomalies. 7 Q And do you see where it says: Any and 11 And then the models it's talking 7 Q And do you see where it says: Any and 12 about are models built from data flows. 7 Q Second to last sentence. 13 But it's being disclowed here as 7 A Op, yes. I see that. 14 how to determine anomalies discussed in Paragraph 14 O You stated eartier that it was that 15 based on machine-learning techniques 16 in the 400s of Kapoor explain how Kapoor actually 15 based on wachine-learning techniques 16 M. Reparagraph 87 hut you were discussing with 14 conservert? A Yes. M. Reparagraph 87 hut you were discussing with 25 Q Could you please turn to Paragraph 23 of Page 140 1 M. GOODRICH M. BakkE: Objection to form. 26 Q Could you guesstuming that that's how Fage 140 1 M. GOODRICH M.	4		4	Q Do you recall discussing this paragraph
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9 model, it may be possible to detect anomalies. 9 inspection of data that encompasses a packet or flow of packets? 11 And then the models it's talking about are models built from data flows. 10 A Sory. Where is that? 12 about are models built from data flows. 12 Q Second to last storence. 14 how to determine anomalous data flows. 13 A On, yes. I see that. 15 based on machine-learning techniques 15 this was a high level statement, in that paragraphs? 16 built from and using data flows. 14 Q You stated earlier that it was - that 16 the anomalies discussed in Paragraph 16 this was a high level statement, in that paragraphs? 17 BY MR. PRICE: messages, correct? 18 18 messages, correct? A Yes. 19 A Yes, I would say so, because 87 is coming an the Summary section and this is coming in the 22 10 M. GOODRICH 22 Q Turn to Paragraph 10, it discusses that - in the 24 Q Lould you please turn to Paragraph 23 of 24 Q Do you see where Kapoor states that the 26 M. BOODRICH 1 M. GOODRICH 24 27 A Yes. 9 11 M. GOODRICH 28 Q Is it your understanding that that's how 5 </td <td>7</td> <td>And further down it says: Then, by</td> <th>7</th> <td>Q And do you see where it says: Any and</td>	7	And further down it says: Then, by	7	Q And do you see where it says: Any and
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14 how to determine anomalous data flows 14 Q You stated earlier that it was - that 15 built from and using data flows. 15 in the 400s of Kapoor exclually 17 BY MR. PRICE: 7 goes about detecting patterns in application-layer 18 messages, correct? A Yes. 19 130 the same as the anomalies that can be logged in nessages, correct? A 20 A res, I would say so, because 87 is coming in the 400s of Kapoor explaty BY MR. PRICE: 21 A Yes, I would say so, because 87 is coming in the Detailed Description. 21 BY MR. PRICE: 22 A Yes, I would say so, because 87 is coming in the Detailed Description. 23 A Turn to Paragraph 403. 23 in the Summary section and this is coming in the Detailed Description. 24 Q Do you see where Kapoor states that the 24 Detailed Description. Page 140 1 M. GOODRICH 23 A Yes. 3 Q Is it your understanding that that's how Second sentence, it states that: The anomalies that are being detected may include the types, patterns and frequencies that are unsusul, unexpected, new, different or otherwise unlike a normal flow.			12	Q Second to last sentence.
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16 built from and using data flows. 16 in the 400s of Kapoor explain how Kapoor actually goes about detecting patterns in application-layer 17 BY MR. PRICE: in the 400s of Kapoor explain how Kapoor actually goes about detecting patterns in application-layer 18 Q Are the anomalies discussed in Paragraph in the 400s of Kapoor explain how Kapoor actually goes about detecting patterns in application-layer 19 130 the same as the anomalies that can be logged in the Paragraph 87 that you were discussing with counsel earlier? in the 400s of Kapoor explain how Kapoor actually goes about detecting patterns in application-layer 20 Ares, were the anomalies discussed in Paragraph in the 400s of Kapoor explain how Kapoor actually goes about detecting patterns in application-layer 21 A Yes, Iwould say so, because 87 is coming in the Summary section and this is coming in the Detailed Description. Page 140 22 A Yes, Iwould you please turn to Paragraph 23 of Page 140 Page 141 1 M. GOODRICH 1 M. GOODRICH Page 141 2 same fashion as the destination system reassembles affequencies that are unusual, uncexpected, new, different or otherwise unlike a normal flow. second sentence, i states that: The anomalies that are being detected may include the types, patterns and frequencies that are unusual, uncexpected, new, different or otherwise unlike a normal flow. 3				-
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25AI'm there.25where a server is not an HTTP server but some other	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	M. GOODRICH same fashion as the destination system reassembles packets into messages? A Yes. Q Is it your understanding that that's how Kapoor does its packet inspection directed at application-layer data that encompasses a packet or flow of packets? A Yes. MR. BLAKE: Objection to form. MR. PRICE: I have no further questions. MR. BLAKE: Just a couple of redirect questions recross questions. EXAMINATION BY MR. BLAKE: Q Dr. Goodrich, did you discuss the testimony you just gave or any of the questions that would be asked to you with Mr. Price during the break between my asking you questions and the time he began asking you questions? A No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 M. GOODRICH Q The anomalous detection that you now think you understand more about what it means from reading Paragraph 130, it discusses that in the second sentence, it states that: The anomalies that are being detected may include the types, patterns and frequencies that are unusual, unexpected, new, different or otherwise unlike a normal flow. Is that correct? A Yes. Q And it says that the terms a normal and anomalous would be inherently broad, correct? A Yes, it says that. Q So what you are detecting for as an anomaly may include malicious activity under this inherently broad definition, correct? A No. That's actually not what is being referred to as inherently broad. It's referring to this phenomenon that, when you're looking at these flows, one flow in a certain context might be a normal flow, but in another context where that's unexpected, hence an anomaly, that would be an anomalous flow.
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1	M. GOODRICH	1	M. GOODRICH
2	type of a server, and you're getting HTTP flows to	2	M: GOODRICH
3	that server, that would be anomalous, whereas another	3	
4	server which is an HTTP server getting HTTP flows is		
5	a part of its daily activities and it would be	4	MICHAEL GOODRICH
6	normal.	5	
7	Q Well, when it says that you could be	6	
8	detecting for frequencies, could you be detecting for	7	Subscribed and sworn to before me
9	anomalous increase in traffic on a particular server?	8	this day of, 2019.
10	A Yes, I would say that is inclusive of	9	
11	what it's referring to there.	10	
12	Q Such as DDoS attack?	11	
13	A That could be one type of increase in	12	
14	frequency you'd see. There's others. It just could	13 14	
15	be increase in frequency you get from other types of	14	
16	flows.	16	
17	MR. BLAKE: Okay. I have no	17	
18	further questions.	18	
19	MR. PRICE: Okay.	19	
20		20	
21	(Thereupon, the deposition was	21	
22	concluded at approximately 4:24 p.m.)	22	
23		23	
24		24	
25		25	
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-			1490 110
1			
2	DISCLOSURE	1	
2 3		2	CERTIFICATE
2 3 4	DISCLOSURE STATE OF GEORGIA) DEPOSITION OF:	2 3	
2 3 4 5 6		2 3 4	STATE OF GEORGIA:
2 3 4 5	STATE OF GEORGIA) DEPOSITION OF:FULTON COUNTY) MICHAEL GOODRICH	2 3	
2 3 4 5 6 7	STATE OF GEORGIA) DEPOSITION OF: FULTON COUNTY) MICHAEL GOODRICH Pursuant to Article 8.B of the Rules and Regulations of the Board of Court Reporting of the	2 3 4 5	STATE OF GEORGIA:
2 3 4 5 6 7	STATE OF GEORGIA) DEPOSITION OF: FULTON COUNTY) MICHAEL GOODRICH Pursuant to Article 8.B of the Rules and Regulations of the Board of Court Reporting of the Judicial Council of Georgia, I make the following	2 3 4 5 6 7 8	STATE OF GEORGIA: FULTON COUNTY: I hereby certify that the foregoing deposition was reported, as stated in the
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1	NAME C	OF CASE:		
2		F DEPOSITI	ON:	
3		F WITNESS		
4	Reason C			
5		clarify the re-	cord.	
6		conform to th		
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16		Line	Reason	
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18		Line		
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20		Line		
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23 24	From		10	
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