## DOUGLAS CHRISSAN Non-Confidential CISCO SYSTEMS vs TQ DELTA, LLC

## May 09, 2017

1	UNITED STATES PATEN	Page 1 IT AND TRADEMARK OFFICE	1	PRESENT: (Continued)
2			2	DUANE MORRIS LLP,
3	BEFORE THE PATENT TRIAL A	ND APPEAL BOARD	3	(1075 Peachtree Street NE, Suite 2000,
4	BEFORE THE FATENT TRIAL AND AFFEAT BOARD		4	Atlanta, Georgia 30309-3929,
5	CISCO SYSTEMS, INC.,	) Case No.	5	404-253-6917), by:
6		) IPR2016-01020	6	MR. COREY J. MANLEY,
7	Petitioner		7	cjmanley@duanemorris.com,
8		) Case No.	8	appeared on behalf of Arris, Comcast,
9	-vs-	) IPR2016-01021	9	Cox, Verizon, and Time Warner Cable;
10		)	10	
11	TO DELTA, LLC,	) U.S. Patent No.	11	COOLEY LLP,
12	- 2,,	) 9,014,243	12	(Reston Town Center,
13	Patent Owr		13	11951 Freedom Drive, 14th Floor,
14	racent our	,	14	Reston, Virginia 20190-5656,
15	The deposition	of DOUGLAS A. CHRISSAN,	15	703-456-8130), by:
16	Ph.D., taken in the above		16	MR. STEPHEN McBRIDE,
17		Public within and for the		smcbride@cooley.com,
	_		17	
18	County of DuPage, State of		18	appeared via telephonic communications
19	_	ter of said state, C.S.R.	19	on behalf of Dish Network;
20	No. 84-2212, at Suite 350		20	
21	Street, Chicago, Illinois	s, on May 9, 2017,	21	
22	commencing at 9:12 a.m.		22	
23			23	
24			24	
	DDEGENW.	Page 2		Page (
1 2	PRESENT:	IID	1 2	PRESENT: (Continued)
3	HAYNES AND BOONE,		3	McANDREWS, HELD & MALLOY, LTD., (500 West Madison Street, 34th Floor,
4	(2323 Victory Aver		4	(500 West Madison Street, 34th Floor,
	Dallas, Texas 752		4	Object Tllingia 60661
5			-	Chicago, Illinois 60661,
6	214-651-5533), by		5	312-775-8000), by:
6	MR. JOHN RUSSELL I	EMERSON,	6	312-775-8000), by: MR. PETER J. McANDREWS,
7	MR. JOHN RUSSELL I	EMERSON,	6 7	312-775-8000), by: MR. PETER J. McANDREWS, pmcandrews@mcandrews-ip.com,
7 8	MR. JOHN RUSSELL I russ.emerson@hayne -and-	emerson, esboone.com,	6 7 8	312-775-8000), by:  MR. PETER J. McANDREWS,  pmcandrews@mcandrews-ip.com,  MR. RAJENDRA A. CHIPLUNKAR,
7 8 9	MR. JOHN RUSSELL I russ.emerson@hayne -and- HAYNES AND BOONE,	emerson, esboone.com, LLP,	6 7 8 9	312-775-8000), by: MR. PETER J. McANDREWS, pmcandrews@mcandrews-ip.com, MR. RAJENDRA A. CHIPLUNKAR, rchiplunkar@mcandrews-ip.com,
7 8 9	MR. JOHN RUSSELL I russ.emerson@hayne -and- HAYNES AND BOONE, (2505 North Plano	emerson, esboone.com, LLP, Road, Suite 4000,	6 7 8 9	312-775-8000), by:  MR. PETER J. McANDREWS,  pmcandrews@mcandrews-ip.com,  MR. RAJENDRA A. CHIPLUNKAR,
7 8 9 10	MR. JOHN RUSSELL I russ.emerson@hayne -and- HAYNES AND BOONE, (2505 North Plano Richardson, Texas	EMERSON, esboone.com, LLP, Road, Suite 4000, 75082-4101,	6 7 8 9 10 11	312-775-8000), by:  MR. PETER J. McANDREWS,  pmcandrews@mcandrews-ip.com,  MR. RAJENDRA A. CHIPLUNKAR,  rchiplunkar@mcandrews-ip.com,  appeared on behalf of the Patent Owner.
7 8 9 10 11	MR. JOHN RUSSELL I russ.emerson@hayne -and- HAYNES AND BOONE, (2505 North Plano Richardson, Texas 972-739-8649), by	EMERSON, esboone.com, LLP, Road, Suite 4000, 75082-4101,	6 7 8 9 10 11	312-775-8000), by:  MR. PETER J. McANDREWS,  pmcandrews@mcandrews-ip.com,  MR. RAJENDRA A. CHIPLUNKAR,  rchiplunkar@mcandrews-ip.com,  appeared on behalf of the Patent Owner.  ALSO PRESENT:
7 8 9 10 11 12	MR. JOHN RUSSELL I russ.emerson@hayne -and- HAYNES AND BOONE, (2505 North Plano Richardson, Texas 972-739-8649), by MR. THEODORE M. FO	EMERSON, esboone.com, LLP, Road, Suite 4000, 75082-4101,	6 7 8 9 10 11 12 13	312-775-8000), by:  MR. PETER J. McANDREWS,  pmcandrews@mcandrews-ip.com,  MR. RAJENDRA A. CHIPLUNKAR,  rchiplunkar@mcandrews-ip.com,  appeared on behalf of the Patent Owner.
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. JOHN RUSSELL I russ.emerson@hayne -and- HAYNES AND BOONE, (2505 North Plano Richardson, Texas 972-739-8649), by MR. THEODORE M. Fo theo.foster@haynes MR. GREGORY HUH, gregory.huh@haynes	EMERSON, esboone.com,  LLP, Road, Suite 4000, 75082-4101, EDSTER, Sboone.com,	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	312-775-8000), by:  MR. PETER J. McANDREWS,  pmcandrews@mcandrews-ip.com,  MR. RAJENDRA A. CHIPLUNKAR,  rchiplunkar@mcandrews-ip.com,  appeared on behalf of the Patent Owner.  ALSO PRESENT:  MR. SAYFE KIAEI.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. JOHN RUSSELL I russ.emerson@hayne -and- HAYNES AND BOONE, (2505 North Plano Richardson, Texas 972-739-8649), by MR. THEODORE M. Fo theo.foster@haynes MR. GREGORY HUH, gregory.huh@haynes	EMERSON, esboone.com,  LLP, Road, Suite 4000, 75082-4101, EDSTER, Sboone.com,	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	312-775-8000), by:  MR. PETER J. McANDREWS,  pmcandrews@mcandrews-ip.com,  MR. RAJENDRA A. CHIPLUNKAR,  rchiplunkar@mcandrews-ip.com,  appeared on behalf of the Patent Owner.  ALSO PRESENT:



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	SCO SYSTEMS VS TQ DELTA, LLC		5–8
1	Page 5 MR. EMERSON: Good morning, Dr. Chrissan.	1	Page 7 Q. Okay. All right. So that was number
2	How do you pronounce your name?	2	one. When was number two?
3	DR. DOUGLAS CHRISSAN: Chrissan, like the		A. Number two was March 20th March 22nd
4	ship.		of this year.
5	MR. EMERSON: Chrissan. Okay. Great.		Q. Was that also related to these
6	Good morning, Dr. Chrissan. Do you	6	proceedings?
7	understand that you're here as TQ Delta's		A. No. That was related to the
8	testifying expert in four different IPRs?	8	intellectual ventures DSL case in the Western
9	DR. DOUGLAS CHRISSAN: I do.	9	District of Texas.
10	MR. EMERSON: And for the record those IPRs	10	Q. Okay. And then when was the next one?
11	are IPR2016-01006, -01007, -01008, and -01009,	11	A. The third one was April 13th of this
12		12	·
13	DR. DOUGLAS CHRISSAN: Yes.	13	Q. And then this will be the fourth one?
14	(WHEREUPON, the witness was duly	14	
15	sworn.)	15	Q. Okay. In your prior deposition in the
16	DOUGLAS A. CHRISSAN, Ph.D.,	16	related litigation for this family of patents what
17	called as a witness herein, having been first duly	17	were you opining on?
18	sworn, was examined and testified as follows:	18	You were engaged as an expert in that
19	EXAMINATION	19	case, right?
20	BY MR. EMERSON:	20	A. Oh, yes.
21	Q. Great. So you don't want to change your	21	Q. Was it claim construction or invalidity?
22	answers now that you've been sworn to tell the	22	A. I was opining with respect to
	truth? I'm kidding. Since I asked you the first	23	declarations that I had submitted for claim
24		24	construction.
	Davis 0		D 0
	Page 6		Page 8
1	All right. You understand I represent	1	<ul> <li>Q. So you understand that you're under oath</li> </ul>
1 2	Cisco in those four IPRs, right?	2	
l .			
2	Cisco in those four IPRs, right?	2	today, right?
2 3	Cisco in those four IPRs, right?  A. Yes.	2	today, right? A. Yes.
2 3 4	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state	2 3 4	today, right?  A. Yes.  Q. And it's the same oath you would take in
2 3 4 5	Cisco in those four IPRs, right? A. Yes. Q. All right. And would you just state your full name for the record?	2 3 4 5	today, right?  A. Yes.  Q. And it's the same oath you would take in a court of law?
2 3 4 5 6	Cisco in those four IPRs, right?  A. Yes. Q. All right. And would you just state your full name for the record? A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan?	2 3 4 5 6	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood.
2 3 4 5 6 7	Cisco in those four IPRs, right?  A. Yes. Q. All right. And would you just state your full name for the record? A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan? A. This will be my fourth.	2 3 4 5 6 7	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth,
2 3 4 5 6 7 8	Cisco in those four IPRs, right?  A. Yes. Q. All right. And would you just state your full name for the record? A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan? A. This will be my fourth. Q. Okay. When was the first time you were	2 3 4 5 6 7 8	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law?  A. Understood. Q. And so you're sworn to tell the truth, right?  A. That's correct. Q. Okay. Is there any reason why you can't
2 3 4 5 6 7 8 9 10	Cisco in those four IPRs, right?  A. Yes. Q. All right. And would you just state your full name for the record? A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan? A. This will be my fourth. Q. Okay. When was the first time you were deposed?	2 3 4 5 6 7 8 9 10 11	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today?
2 3 4 5 6 7 8 9 10 11	Cisco in those four IPRs, right?  A. Yes. Q. All right. And would you just state your full name for the record? A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan? A. This will be my fourth. Q. Okay. When was the first time you were deposed? A. September of 2016.	2 3 4 5 6 7 8 9 10 11 12	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give
2 3 4 5 6 7 8 9 10 11 12 13	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth. Q. Okay. When was the first time you were deposed?  A. September of 2016. Q. Okay. And in what proceeding were you	2 3 4 5 6 7 8 9 10 11 12	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today.
2 3 4 5 6 7 8 9 10 11 12 13 14	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth. Q. Okay. When was the first time you were deposed?  A. September of 2016. Q. Okay. And in what proceeding were you deposed in September of 2016?	2 3 4 5 6 7 8 9 10 11 12 13 14	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today. Q. You're not on any medication or anything
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth. Q. Okay. When was the first time you were deposed?  A. September of 2016. Q. Okay. And in what proceeding were you deposed in September of 2016?  A. I was in this building. It was for the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today. Q. You're not on any medication or anything like that?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth. Q. Okay. When was the first time you were deposed?  A. September of 2016. Q. Okay. And in what proceeding were you deposed in September of 2016?  A. I was in this building. It was for the district litigation for these essentially these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today. Q. You're not on any medication or anything like that? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth. Q. Okay. When was the first time you were deposed?  A. September of 2016. Q. Okay. And in what proceeding were you deposed in September of 2016?  A. I was in this building. It was for the district litigation for these essentially these same patents.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today. Q. You're not on any medication or anything like that? A. No. Q. Okay. So you see that we have a court
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth. Q. Okay. When was the first time you were deposed?  A. September of 2016. Q. Okay. And in what proceeding were you deposed in September of 2016?  A. I was in this building. It was for the district litigation for these essentially these same patents.  Q. The Delaware case, the district court	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today. Q. You're not on any medication or anything like that? A. No. Q. Okay. So you see that we have a court reporter here, right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan.  Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth.  Q. Okay. When was the first time you were deposed?  A. September of 2016.  Q. Okay. And in what proceeding were you deposed in September of 2016?  A. I was in this building. It was for the district litigation for these essentially these same patents.  Q. The Delaware case, the district court case?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today. Q. You're not on any medication or anything like that? A. No. Q. Okay. So you see that we have a court reporter here, right? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan.  Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth.  Q. Okay. When was the first time you were deposed?  A. September of 2016.  Q. Okay. And in what proceeding were you deposed in September of 2016?  A. I was in this building. It was for the district litigation for these essentially these same patents.  Q. The Delaware case, the district court case?  A. I know it was a district court case. I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today. Q. You're not on any medication or anything like that? A. No. Q. Okay. So you see that we have a court reporter here, right? A. Yes. Q. And she takes down everything we say.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth. Q. Okay. When was the first time you were deposed?  A. September of 2016. Q. Okay. And in what proceeding were you deposed in September of 2016?  A. I was in this building. It was for the district litigation for these essentially these same patents.  Q. The Delaware case, the district court case?  A. I know it was a district court case. I believe it was Delaware. I know it was for some of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today. Q. You're not on any medication or anything like that? A. No. Q. Okay. So you see that we have a court reporter here, right? A. Yes. Q. And she takes down everything we say. You understand 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	Cisco in those four IPRs, right?  A. Yes.  Q. All right. And would you just state your full name for the record?  A. My name is Douglas A. Chrissan. Q. How many times have you been deposed before, Dr. Chrissan?  A. This will be my fourth. Q. Okay. When was the first time you were deposed?  A. September of 2016. Q. Okay. And in what proceeding were you deposed in September of 2016?  A. I was in this building. It was for the district litigation for these essentially these same patents. Q. The Delaware case, the district court case?  A. I know it was a district court case. I believe it was Delaware. I know it was for some of these same family of patents, and it was I believe the attorneys may have been representing	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	today, right?  A. Yes. Q. And it's the same oath you would take in a court of law? A. Understood. Q. And so you're sworn to tell the truth, right? A. That's correct. Q. Okay. Is there any reason why you can't give me complete and truthful answers today? A. No, there's no reason why I can't give complete and truthful answers today. Q. You're not on any medication or anything like that? A. No. Q. Okay. So you see that we have a court reporter here, right? A. Yes. Q. And she takes down everything we say. You understand that? A. I do. Q. And we will make her job easier if we



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	Page 9	Page 11
1	A. I understand.	1 consultant.
2	Q. Sometimes I fall short on that so I'll	2 Q. What does that mean?
3	do my best to help her.	3 A. The self-employed part means that I am
4	The other thing is that we need audible	4 100-percent self-employed. I don't get a W-2 from
5	answers, words.	5 anyone; I'm not fully employed by any company.
6	A. Understood.	6 The technical consultant means I work
7	Q. Not head nods or shakes or uh-huh or	7 for entities by the hour consulting as needed.
8	uhn-uhn. Okay?	8 Q. What kind of consulting do you typically
9	A. Understood.	9 do?
10	Q. I'll ask you to tell me if you don't	10 A. That is contained in the CV that I
11	understand my question. Okay?	11 believe would have been an attachment to my
12	A. I will.	12 declaration.
13	Q. We'll try to take a break at least every	13 I do IP litigation consulting as an
14	hour or so. Okay?	14 expert witness. I do IP litigation consulting
15	A. Okay.	15 doing work that's non-expert witness work. I also
16	Q. Anytime you want to take a break, let me	16 do technical work for engineering companies. All
17	know. I'm not going to keep you here against your	17 of those things are listed in my CV.
18	will. All I ask is that if there's a question	18 Q. Approximately what proportion of your
19	pending, let's finish the answer and then we can	19 consulting work is related to litigation?

20

24

Page 10

1 TQ Delta?

20 take a break.

22 IPRs, correct?

21

23

24

17

A. Approximately one year ago.

A. That's correct.

Q. All right. And who approached you on

4 behalf of TQ Delta?

A. An attorney in this office named Anna

6 Targowska.

Q. Before Anna Targowska approached you

So you are engaged by TQ Delta in these

Q. Do you remember when you were engaged by

8 about this matter had you ever heard of TQ Delta?

9 A. I had not.

Q. Were you familiar at all with the three 10

patents at issue in these IPRs?

A. I was not. 12

13 Q. Do you have any financial interest in

14 these proceedings?

15 A. As stated in my declaration, I'm paid by

16 the hour and that does not depend on any outcome.

Q. You don't own any stock in TQ Delta or

18 have ownership interest in TQ Delta?

19 A. That's correct; I have no ownership

20 interest in TQ Delta and no -- how should I put

21 it? -- compensation depending on the outcome of

this litigation or this IPR.

23 Q. Okay. What do you do for a living?

24 A. I am a self-employed technical A. That would have to be taken on a

21 period-by-period basis because it varies.

22 Q. Okay. Is there a typical range in which 23 it varies?

A. I think you would have to ask a more

Page 12

specific question. What do you mean by typical

range? It varies.

Q. Okay. So is it ever 100-percent

litigation-related?

A. There are times when it's 100-percent

6 litigation-related.

Let me go back to your original 7

question. Could you restate your original

9 question?

Q. I'm just trying to get a feel for the 10

proportion of your time that's devoted to

12 litigation-type stuff and the proportion that's

related to non-litigation type stuff. That's all.

A. Again, it varies. I don't spend

15 100-percent of my time on litigation consulting. I

don't spend 100-percent of my time on pure

technical development work.

Q. When did you start doing litigation 18 19 consulting?

20

A. In 2013.

Q. Okay. But you hadn't been deposed until 21

22 last September?

23 A. That's correct.

Q. Other than these IPRs have you been



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24

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1 involved in any other IPRs?	1 your question, the answer is no.
A. I have been involved in at least one	2 Q. Okay. You used to work at Texas
3 other IPR. Also with TQ Delta.	3 Instruments, correct?
4 Q. Okay. And you haven't been deposed for	4 A. I did.
5 that one yet, have you?	5 Q. Okay. Before you worked at Texas
6 A. That's correct, I have not been deposed	6 Instruments had you ever designed or developed any
7 for that one yet.	7 DSL systems?
8 Q. What did you do to prepare for your	8 A. Before I worked at Texas Instruments I
9 deposition today?	9 was involved in communication systems. Those
10 A. I reviewed the patents at issue, my	10 communication systems were other than DSL.
11 declaration, Dr. Kiaei's declaration and deposition	11 Q. Okay. So then the answer to my question
12 transcript, and Cisco's petition, and any other	12 would be no?
13 documents listed in the report.	13 A. How do you define DSL?
14 Q. Did you read the prior art?	14 Q. How do you define DSL?
A. I did read the prior art, the asserted	15 A. I define DSL as digital subscriber line.
16 prior art, yes.	16 That's any system that would communicate over
17 Q. And you submitted one declaration in	17 twisted copper.
18 support of all four IPRs, right?	18 Q. Okay. You said that "before I worked at
19 A. Yes, that's correct.	19 Texas Instruments I was involved in communication
Q. Did you look at the Board's decisions in	20 systems. Those communication systems were other
21 these IPRs?	21 than DSL." Okay. Do you recall that?
22 A. I did look at the document instituting	22 A. I do.
23 the IPR from the Board, yes.	23 Q. All right. So then would it be fair to
24 Q. For each IPR? All four of them?	24 say that before you worked at Texas Instruments you
Page 14  1 A. I know I opened at least two.	Page 16 1 did not work on DSL systems?
2 Q. Okay.	2 A. I want to think and clarify that I took
3 A. I may not have opened all four. And	3 a broad enough approach to DSL when I answered you
4 read. Opened and read at least two.	4 question that you just gave back to me.
5 Q. Sure. Did you meet with anyone to	5 Yes, I would have to say that before
6 prepare for your depo?	6 Texas Instruments my communication experience was
7 A. I met with counsel here yesterday to	7 with wireless systems. So that's true. That's not
8 prepare for this depo.	8 DSL.
9 Q. Peter and Raj?	9 Q. Okay. What was your job title at TI?
10 A. Primarily Raj and an attorney named	10 A. That's contained in my CV. I joined TI
	, ,
11 Chris.	11 with a job title I believe it was system architect
12 Q. Okay.	12 or system architect engineer. I would want to look
A. I did meet with Pete briefly near the	13 at the CV again to get the wording exactly.
14 end of the day.	And into my role at TI I was promoted to
15 Q. Did you do any perform any	15 a position entitled engineering program manager.
16 calculations or anything like that in preparation	16 Q. When you were at TI did you manage
17 for your deposition?	17 intellectual property?
18 A. Could you please explain what you mean	18 A. I did not manage intellectual property
19 by performing calculations in preparation?	19 at TI.
Q. Did you run through and do any you	20 Q. Okay. Were you in a position where you
21 know, run through any hypotheticals where you would	21 managed engineers?
22 calculate anything at all in preparation for your	22 A. I was in a position where I managed
00 - dan a sitia a ta dan 0	22 and in a second and a second secon



A. To the best of my ability to understand

23 deposition today?

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23 engineers. I managed a product development team.

24 And the way TI was established and the way projects



	DUGLAS CHRISSAN Non-Confidential SCO SYSTEMS vs TQ DELTA, LLC	May 09, 2017 17–20	
Γ.	Page 17		Page 19
	were managed, I managed the engineers that were on	1	products from different vendors would interoperate
2	'		with each other. That, of course, is the purpose
3	Q. Did you personally design hardware for	_	of a standard.
4	production?	4	Q. So would you agree with me then that
5	A. I architected the system. I was in the	5	engineers rely on the requirements articulated in
6	group that architected the DSL system. As it's	6	that standard?
7	stated in my CV, I spent a good deal of time	7	Could you give me a little bit more
8	working directly in the architecture of a DSL modem	8	detail about what you mean by, quote, unquote,
9	chipset. In addition, I managed and was very	9	relied on?
10	closely involved in the design of a DSL	10	Q. No. I don't know if I can. It seems
11	semi-conductor.	11	pretty simple.
12	<ul> <li>Q. Did you personally develop any software</li> </ul>	12	If one is designing a chipset that is
13	for production?	13	designed to be used in a DSL system, would it be
14	<ul> <li>A. I did not type code if that's what you</li> </ul>	14	important for one to rely on the relevant standard?
15	mean.	15	A. Okay. So you're saying take into
16	Q. Okay. Do you think that you well,	16	account the requirements. And well, the
17	would you say that you were involved in software	17	requirements and design specified by the standard
18	development for production?	18	in designing the product.
19	A. Yes. I was involved in software	19	Yes. The answer to that is yes. They
20	development in terms of setting requirements. I	20	rely on a number of other things as well; but to
21	personally wrote lengthy requirements documents. I	21	the extent that functionality and requirements are
22	personally interacted with the software team. I	22	specified in the standard, engineers would rely on
23	personally managed a production the first	23	
24	production release that went with the device, the	24	Q. And because engineers rely on those
	Page 18	1	Page 20
1	first software production release and the first	1	,
2	hardware production release that went with the DSL		important for the standard to be precise in its
3	chipset modem system.		language, would you agree?
4	Q. What was that called?	4	A. Within the DSL art things have to be
5	A. That was called UR8. The code name		considered within the time frame that they
6	within TI was called UR8.	6	happened. It was known when the 1995 standard was
7	Q. Did the UR8 implement the T1.413	7	published that it was not precise enough to
8	standard?	8	guarantee interoperability among vendors.
9	A. It implemented ADSL2 and ADSL1. I	9	Without going into a long discussion
10	•	10	about the industry at that time, I can say that
	T1.413 1998 standard as that standard was	11	most vendors at the time of Issue 1 had proprietary
	implemented at the time of release of the product.	12	
13	Q. Let me back up. You're familiar with	13	, ,
14	•	14	deployed. Vendors had generally proprietary
15		15	systems.
16		16	I believe that some vendors at the time
17	A. The T1.413 standard is a standard for	17	were happy keeping things fairly proprietary and
18	describing digital subscriber line modems. A	18	not having a precise standard. Other vendors
19	version was published in 1995. It's typically	19	pushed harder for a more precise standard.



21 1998. It's typically known as Issue 2.

23 the industry to produce functional standard --

22

20 known as Issue 1. Another version was published in

Those were standards used by those in

24 functional DSL modem chipsets and systems such that

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The Issue 1 standard was not precise

21 enough to guarantee interoperability among all

TI has a white paper that's still

24 available on its website describing certain aspects

22 vendors. That was known.



20

23

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