UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD RIVERBED TECHNOLOGY, INC.; DELL INC.;) HEWLETT-PACKARD ENTERPRISE CO.; HP)CASE IPR2016-00972ENTERPRISE SERVICES, LLC; TERADATA)PATENT 7,415,530 OPERATIONS, INC.; ECHOSTAR CORPORATION; AND HUGHES NETWORK) CASE IPR2016-01002 SYSTEMS, LLC, PATENT 9,116,908) PETITIONERS VS REALTIME DATA LLC, PATENT OWNER _ _ _ _ _ _ _ _ _ _ _ ORAL DEPOSITION OF CHARLES D. CREUSERE, PH.D. January 19, 2017 Reported by: Ronald R. Cope Job no: 17930

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1	ORAL DEPOSITION OF CHARLES D. CREUSERE,	1	A P P E A R A N C E S (Continued)	
		2	AFFEARANCES (Continued)	
2	PH.D., produced as a witness at the instance of the	3	FOR THE PATENT OWNER:	
3	Patent Owner, and duly sworn, was taken in the	4	Mr. Kayvan B. Noroozi, Esq.	
4	above-styled and -numbered cause on January 19, 2017,		NOROOZI, PC	
5	from 9:03 a.m. to 2:30 p.m., before Ronald R. Cope, a	5	1299 Ocean Avenue Suite 450	
6	CSR in and for the State of Texas, Registered	6	Santa Monica, California 90401	
7	Professional Reporter and Certified Realtime Reporter,		310.975.7074	
8	reported by machine shorthand at the Renaissance Hotel,	7	e-mail: kayvan@noroozipc.com	
9	900 E. Lookout Drive, Richardson, Texas 75082, pursuant	8	-and-	
10	to Patent Owner Realtime Data LLC's Notice of Deposition	9	Mr. Jason D. Eisenberg, Esq. Mr. Jay L. Bird, Esq.	
11	of Charles D. Creusere, Ph.D., and the provisions stated	10	STERNE, KESSLER, GOLDSTEIN, FOX	
12	on the record.		1100 New York Avenue, NW	
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1	CHARLES D. CREUSERE, PH.D.,	1	MR. SOMMER: Object to form.
2	having been first duly sworn, testified as follows:	2	A. Okay. I'm going to just to compare, I'm
3	EXAMINATION	3	going to look at my deposition (sic) from the '908
4	BY MR. NOROOZI:	4	patent as well because the language is a little bit
5	Q. Good morning, sir.	5	different in those two, in the claims in the two
6	A. Good morning.	6	patents.
7	Q. You're here to testify today as to both the	7	Q. (BY MR. NOROOZI) And I just want to clarify
8	'530 and '908 patents, correct?	8	for purposes of the deposition: Do you understand that
9	A. Yes.	9	you're not supposed to take any cues or draw any hints
10	Q. And specifically with respect to opinions that	10	as to how you should answer my questions based on
11	you've set forth in your declarations in IPR proceedings	11	whether or not your counsel objects?
12	as to those patents, right?	12	A. Yes. Yes. No. Yes, I understand that.
13	A. That is correct, yes.	13	Q. Okay. So
14	Q. Now, both of the Claim 1s of the '530 and '908	14	A. Okay.
15	patents require a data accelerator, true?	15	Q why don't we read back my question, and then
16	A. That is correct, yes.	16	we can take the answer from there.
17	Q. And the data accelerator in both of the	17	Well, I just I want to make sure it's
18	Claim 1s of the '530 and '908 patents has to compress at	18	going to go on the record again, so let me just put it
19	least two data blocks, right?	19	on the record again. Withdrawn.
20	A. I believe so. Let me just take a quick look at	20	The data accelerator in both Claim 1s of
21	that.	21	the '530 and '908 patents must also compress and store
22	Q. And for the record, you're taking a look	22	the two data blocks faster than those same two data
23	A. Yes.	23	blocks would be stored and received in uncompressed
24	Q at one of your declarations?	24	form, right?
25	A. Yes. The declaration for the '530 patent.	25	MR. SOMMER: Object to form.
	Page 7		Page 9
1	MR. NOROOZI: And so we'll mark that as an	1	A. That that is my interpretation. The claims
2	exhibit with the same exhibit number as it has in the	2	language in the two Claim 1s are a little bit different.
3	proceeding.	3	In the Claim 1 for the '530 patent, it specifically
4	A. And your question could you repeat the	4	says let's see a data stream is received by the
5	question again with respect to Claim 1?	5	said data accelerator in received form. The said data
6	Q. (BY MR. NOROOZI) With respect to Claim 1 of	6	stream includes a first and second block. And then it
7 8	both of the '530 and '908 patents, the data accelerator	7	says the said data stream is compressed by the data
8	has to compress at least two data blocks, right? A. Yes. It says specifically, "Said data stream	8	accelerator to provide a compressed stream by
10	includes a first data block and a second data block."	9 10	compressing the first data block with a first compression technique and second data block, second
11	Q. Okay. Now, the two data blocks in both	11	compression technique, so
12	Claim 1s of both patents must be compressed using two	12	Let's see. And then then we go down to
13	different compression techniques, right?	13	claim what we label Claim or what I label Claim I,
14	A. That is my understanding of the of both the	14	I should say: "Said compression storage occurs faster
15	'530 patent and the '908 patent.	15	than said data stream is able to be stored."
16	Q. And when we talk about "compression	16	So by in my understanding, then said
17	techniques," that's the same thing as compression	17	data stream includes a first and second block, and the
18	algorithms, right?	18	said data stream thus is stored faster than could be
19	A. Yes. Compression techniques, in my	19	stored in the received form; therefore, the first data
20	understanding, is the same is synonymous with	20	block are stored faster.
21	compression algorithms.	21	The other claim is more explicit. In
22	Q. The data accelerator in both Claim 1s of the	22	Claim 1 in the other patent, that's more explicit;
23	'530 and '908 patents must also compress and store the	23	whereas, it specif it says it does not use the
24	two data blocks faster than those same two data blocks	24 25	word "data stream." It says specifically it says,
25	would be stored in received or uncompressed form, right?		"Wherein the first" what I'm labeling Claim F in my

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1	deposition (sic) for the '908 patent, it says, "Wherein	1	That's very clear. And I would so I would also agree
2	the first and second data stream blocks are stored on	2	that because the limitation that let's see said
3	the memory device, and the compression and storage	3	compression and storage occur faster than said data
4	occurs faster than the first and said (sic) data blocks	4	stream is able to be stored on memory device in received
5	are able to be stored on the memory device in	5	form, that implies, along with the earlier statement in
6	uncompressed form."	6	Claim 1, those two together imply that two different
7	So I would I would I would agree	7	compression algorithms are used on two different blocks
8	with that, though the language is a little bit	8	or can be used, I should say, on two different blocks
9	different. I would agree with your statement.	9	and that the that the sum total of this process must
10	Q. (By MR. NOROOZI) Now, in answering my	10	allow for compression fast compression and storage
11	question, you were also looking at your declaration with	11	that is faster than storage of uncompressed data alone.
12	respect to the '908 patent, right?	12	Q. (BY MR. NOROOZI) I just want to clarify if
13	A. That is correct.	13	there was an aspect of what I articulated that you
14	MR. NOROOZI: And so we'll mark that as an	14	disagree with so that we make any of those issues clear
15	exhibit with the same exhibit number that it has in that	15	on the record. So let me break it down, if I could,
16	proceeding.	16	step by step. Withdrawn.
17	Q. (BY MR. NOROOZI) So I want to ask you a few	17	Do you agree that the "faster than"
18	more questions about the "faster than" limitation of the	18	limitation of Claim 1 of the '530 and Claim 1 of the
19	Claim 1s and how they work within the claim.	19	'908 sets up a comparison with respect to two data
20	And withdrawn.	20	blocks that compares the time it would take to store
21	For purposes of both of the Claim 1s of	21	those two data blocks in uncompressed form versus the
22	the '530 and '908 patents, the "faster than" limitation	22	time it would take to store those two data blocks after
23	requires the compression of both data blocks using two	23	compression and storage, right?
24	different techniques, plus the storage of those same two	24	MR. SOMMER: Object to form.
25	compressed data blocks occur faster than those two data	25	A. I believe that that this limitation in the
	Page 11		Page 13
1		1	
1	blocks could be stored without any compression	1 2	claim says that that it must be possible to compress these two data blocks and to store them in less time
2 3	techniques or algorithms being applied to them, right?	3	than it would take to store those same two data blocks
4	MR. SOMMER: Object to form. A. Could you restate your question? It was rather	4	in an uncompressed form.
5	long.	5	Q. (BY MR. NOROOZI) Okay. And when you say "it
6	Q. (BY MR. NOROOZI) Sure. And the reason it's	6	must be possible," you understand there's a difference
7	long is I'm trying to make sure that we're kind of	7	between method claims and system claims, right?
8	capturing all the limitations that go with the "faster	8	A. Yes.
9	than" limitation in one place. Are you with me on that?	9	Q. And with respect to the method claims, the
10	A. I am, yes. Yes.	10	limitation must actually be met, right?
11	Q. Okay. So for purposes of both Claim 1s of the	11	A. Right. Sorry. I
12	'530 and '908 patents, the "faster than" limitation	12	MR. SOMMER: Object to form.
13	requires the compression of both data blocks using two	13	Give me time to object.
14	different techniques, plus the storage of those same two	14	THE WITNESS: Okay. Sorry.
15	compressed data blocks occur faster than those two data	15	A. Yes. It's this is this is a claims
16	blocks would be stored without any compression	16	limitation that must be met. So what I should have said
17	techniques or algorithms being applied to them, right?	17	is I should have said to meet the requirements of the
18	MR. SOMMER: Object to form.	18	claim that the two blocks the compression and storage
19	A. Well, I'm not sure that that's that's	19	of those two blocks must result in a faster overall
20	completely true in exactly how the claims statement I	20	storage time than storing those two blocks uncompressed.
21	would I would agree that Claim 1, each of these	21	So that is a limitation that must be met for the
22	Claim 1s taken a whole taken as a whole apply	22	limitation of this claim to be fulfilled.
23	requires that two different data compression blocks are	23	And I I apologize if I if I
24	applied to Block Number 1 and Block Number 2.	24	misstated.
25	I would agree with the claim as a whole.	25	Q. (BY MR. NOROOZI) No apology is needed. Thank
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1	you, though, for clarifying that.	1	comparison with respect to storing two uncompressed data
2	Now withdrawn.	2	blocks and two compressed data blocks, right?
3	For purposes of the "faster than"	3	MR. SOMMER: Object to form.
4	limitation of both of the Claim 1s of the '530 and	4	A. A comparison. Well, I mean, they certainly
5	'980 '908 patents, the resulting faster than storage	5	the limitation clearly states that that clearly
6	must occur on the same storage device, right?	6	states two cases, and it gives a condition under which
7	MR. SOMMER: Object to form.	7	one case, storage compression and storage must be
8	Q. (BY MR. NOROOZI) Why don't I rephrase that and	8	faster than the other case. So so I I think that
9	see if I can make it even clearer. Withdrawn.	9	that would by most people's definition, that would be
10	When we're talking about the "faster than"	10	a comparison, so, yes, I would agree with you.
11	limitation of the Claim 1s of the '530 and '908 patents,	11	Q. (BY MR. NOROOZI) Now, for purposes of that
12	and specifically talking about the storage aspect of the	12	comparison, the storage device or the memory device is a
13	two data blocks in those Claim 1s, those two data blocks	13	constant factor as between what happens with the two
14	need to be stored on the same storage device, right? On	14	uncompressed data blocks and what happens with the two
15	one storage device?	15	compressed data blocks, right?
16	MR. SOMMER: Object to form.	16	MR. SOMMER: Object to form.
17	A. The claim language is "memory device," but that	17	A. There is only one memory device referenced here
18	certainly could could be equated to a storage device.	18	and it is referenced consistently, so I would agree that
19	Q. (BY MR. NOROOZI) And with respect to the rest	19	that should be viewed as a constant factor.
20	of my question, do you agree that for purposes of the	20	Q. (BY MR. NOROOZI) And so that means that the
21	"faster than" limitation, the two data blocks in	21	storage speed capabilities of the system at issue in the
22	question need to be stored on a single storage device or	22	Claim 1s of the two patents is also a constant for
23	memory device?	23	purposes of the Claim 1s of the patents, right?
24	A. I agree that the claim says that a memory	24	MR. SOMMER: Object to form.
25	device is it says specifically "data accelerator is	25	A. Yes. So that so that the claim this
	Page 15		Page 17
1	coupled" "is coupled to memory device," and it says	1	limitation of Claim 1 I would agree with you that the
2	in what we've what I've labeled Claim part C of	2	limitation of Claim 1 then is relative to the specific
3	Claim 1 of the '530 patent, and then it says that	3	memory device being evaluated. So you're you're
4	compressed stream is stored on said memory device. So,	4	contemplating a specific memory device, and then you are
5	yes, I would agree that that that since the	5	making that comparison.
6	compressed stream is composed of two blocks, I would	6	Q. (BY MR. NOROOZI) And similarly, the transfer
7	agree that those two blocks are stored on the same	7	speed capability from the data accelerator to the
8	memory device.	8	storage device is also constant for purposes of the two
9	Q. And as I think you just said, the storage	9	Claim 1s of the '530 and '908 patents, right?
10	device on which the two data blocks are stored has to be	10	MR. SOMMER: Object to form.
11 12	the same one that would otherwise store the two	11	A. I would ask you to clarify that. What transfer
13	uncompressed data blocks, right?	12 13	speed are you referring to? Q. (BY MR. NOROOZI) I'm talking about the
13		11.3	\mathbf{Q} . (D I MIK. NOKOOZI) I III taiking about the
1 /	MR. SOMMER: Object to form.		
14	A. According to Part I, said compression and	14	actual so withdrawn.
15	A. According to Part I, said compression and storage occurs faster than said data stream is able to	14 15	actual so withdrawn. When we talk about the storage speed
15 16	A. According to Part I, said compression and storage occurs faster than said data stream is able to be stored on memory device in received form, so	14 15 16	actual so withdrawn. When we talk about the storage speed capabilities, we're talking about some kind of a data
15 16 17	A. According to Part I, said compression and storage occurs faster than said data stream is able to be stored on memory device in received form, so certainly with respect to Claim 1 of the '530 patent,	14 15 16 17	actual so withdrawn. When we talk about the storage speed capabilities, we're talking about some kind of a data write per amount of time rate, correct?
15 16 17 18	A. According to Part I, said compression and storage occurs faster than said data stream is able to be stored on memory device in received form, so certainly with respect to Claim 1 of the '530 patent, that is that is correct.	14 15 16 17 18	actual so withdrawn. When we talk about the storage speed capabilities, we're talking about some kind of a data write per amount of time rate, correct? A. For instance, a bandwidth, number of bits per
15 16 17 18 19	A. According to Part I, said compression and storage occurs faster than said data stream is able to be stored on memory device in received form, so certainly with respect to Claim 1 of the '530 patent, that is that is correct. If I look at the other patent, on the	14 15 16 17 18 19	 actual so withdrawn. When we talk about the storage speed capabilities, we're talking about some kind of a data write per amount of time rate, correct? A. For instance, a bandwidth, number of bits per second, is that what you're referring to?
15 16 17 18 19 20	A. According to Part I, said compression and storage occurs faster than said data stream is able to be stored on memory device in received form, so certainly with respect to Claim 1 of the '530 patent, that is that is correct. If I look at the other patent, on the memory device, the other patent what I've labeled	14 15 16 17 18 19 20	 actual so withdrawn. When we talk about the storage speed capabilities, we're talking about some kind of a data write per amount of time rate, correct? A. For instance, a bandwidth, number of bits per second, is that what you're referring to? Q. Yes.
15 16 17 18 19 20 21	A. According to Part I, said compression and storage occurs faster than said data stream is able to be stored on memory device in received form, so certainly with respect to Claim 1 of the '530 patent, that is that is correct. If I look at the other patent, on the memory device, the other patent what I've labeled Limitation G in Claim 1 of the other patent also says	14 15 16 17 18 19 20 21	 actual so withdrawn. When we talk about the storage speed capabilities, we're talking about some kind of a data write per amount of time rate, correct? A. For instance, a bandwidth, number of bits per second, is that what you're referring to? Q. Yes. A. Okay.
15 16 17 18 19 20	A. According to Part I, said compression and storage occurs faster than said data stream is able to be stored on memory device in received form, so certainly with respect to Claim 1 of the '530 patent, that is that is correct. If I look at the other patent, on the memory device, the other patent what I've labeled Limitation G in Claim 1 of the other patent also says essentially the same thing. So to answer your question,	14 15 16 17 18 19 20	 actual so withdrawn. When we talk about the storage speed capabilities, we're talking about some kind of a data write per amount of time rate, correct? A. For instance, a bandwidth, number of bits per second, is that what you're referring to? Q. Yes. A. Okay. Q. And so there's also withdrawn.
15 16 17 18 19 20 21 22 23	A. According to Part I, said compression and storage occurs faster than said data stream is able to be stored on memory device in received form, so certainly with respect to Claim 1 of the '530 patent, that is that is correct. If I look at the other patent, on the memory device, the other patent what I've labeled Limitation G in Claim 1 of the other patent also says essentially the same thing. So to answer your question, yes.	14 15 16 17 18 19 20 21 22	 actual so withdrawn. When we talk about the storage speed capabilities, we're talking about some kind of a data write per amount of time rate, correct? A. For instance, a bandwidth, number of bits per second, is that what you're referring to? Q. Yes. A. Okay. Q. And so there's also withdrawn. And there's some limitation that all disk
15 16 17 18 19 20 21 22	A. According to Part I, said compression and storage occurs faster than said data stream is able to be stored on memory device in received form, so certainly with respect to Claim 1 of the '530 patent, that is that is correct. If I look at the other patent, on the memory device, the other patent what I've labeled Limitation G in Claim 1 of the other patent also says essentially the same thing. So to answer your question,	14 15 16 17 18 19 20 21 22 23	 actual so withdrawn. When we talk about the storage speed capabilities, we're talking about some kind of a data write per amount of time rate, correct? A. For instance, a bandwidth, number of bits per second, is that what you're referring to? Q. Yes. A. Okay. Q. And so there's also withdrawn.

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