

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA
HONORABLE DAVID O. CARTER, JUDGE PRESIDING

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ECHOSTAR SATELLITE)	
CORPORATION, et al.,)	
)	
Plaintiffs,)	
)	
vs.)	No. SACV 03-0950-DOC
)	
NDS GROUP PLC, et al.,)	
)	Day 17, Volume IV
Defendants.)	
_____)	

REPORTER'S TRANSCRIPT OF PROCEEDINGS

Jury Trial

Santa Ana, California

Wednesday, May 7, 2008

Jane C.S. Rule, CSR 9316
Federal Official Court Reporter
United States District Court
411 West 4th Street, Room 1-053
Santa Ana, California 92701
(714) 558-7755
08-05-07 EchoStarD17V4

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I N D E X

REBUTTAL ARGUMENT

Page

By Mr. Hagan

4

1 SANTA ANA, CALIFORNIA, WEDNESDAY, MAY 7, 2008

2 DAY 17 - VOLUME IV

3 (3:18 p.m.)

4 THE COURT: Okay. We're back on the record. The
5 jury is present. All counsel are present.

6 And this would be the concluding argument, your
7 rebuttal argument on behalf of the Plaintiffs EchoStar,
8 NagraStar.

9 Counsel, you'd have 35 -- or strike that. You
10 have 30 minutes. Counsel, finish exactly on the mark.

11 MR. HAGAN: Thank you, your Honor.

12 REBUTTAL ARGUMENT BY MR. HAGAN

13 MR. HAGAN: Thank you for an opportunity to
14 conclude this trial. I want to thank my client for this
15 opportunity as well.

16 Now, Mr. Snyder ended his closing arguments with a
17 couple of questions, and I want to address those quickly
18 while they are fresh in your head, and then we can move on
19 to some other issues.

20 THE COURT: And let me inform the jury, also, that
21 I've given consent for counsel for plaintiffs to have two
22 counsel argue the opening and one in rebuttal, so it's
23 appropriate.

24 MR. HAGAN: The first question posed was, "Why
25 didn't EchoStar do more to investigate xbr21 and StuntGuy?"

1 This trial was not about xbr21 or StuntGuy.

2 Mr. Pizzo testified. He said that he was xbr21,
3 but the most important part of his testimony is that he did
4 not create the Nipper hack methodology. He did not even
5 understand that hack methodology. He copied and pasted it
6 from another website and reposted it. He reposted it as the
7 original author, NipperClause. That is why when we
8 originally filed this lawsuit, we believed that xbr21 and
9 NipperClause were the same individual. We found out through
10 discovery that Mr. Pizzo was not the author of that post.
11 We withdrew that claim.

12 StuntGuy is also not Nipper. Mr. Dalla took the
13 stand, and he testified that he reached an agreement with
14 the defendants. He agreed to come here and testify
15 truthfully, and his truthful testimony was he doesn't know
16 whether or not Chris Tarnovsky was Nipper. He knows that he
17 was not Nipper, and he knows that the Nipper posting in
18 December of 2000 was a significant event in EchoStar piracy.
19 In fact, it was such a significant event in EchoStar piracy,
20 that after that posting and after he updated his StuntGuy
21 FAQs, he quit publishing those FAQs, because according to
22 him, there was nothing left to write about.

23 The state of piracy of EchoStar's conditional
24 access system after those December 2000 Nipper postings was
25 an explosion in piracy. Did we attempt to mitigate our

1 damages? Absolutely. We launched electronic
2 countermeasures, we investigated, we launched and developed
3 software patches, but at the end of the day, it simply
4 wasn't enough to fix our system. EchoStar certainly did not
5 go out and spend \$94 million on a card swap that was not
6 necessary.

7 The second question raised by Mr. Snyder was,
8 "How do we explain the fact that the revenues for
9 EchoStar's business continued to go up despite the problem
10 of piracy?"

11 Many of you are in business, and as you know, you
12 don't stop operating your normal business simply because
13 you encounter a problem. You continue to push forward, as
14 EchoStar did, and you continue, hopefully, to generate more
15 revenue and grow your business. The simple fact that
16 EchoStar continued to do that cannot be considered as a
17 negating factor for the \$94 million that they were required
18 to spend for the card swap or the \$90 million that they
19 lost in profits as a result of these, at minimum, a hundred
20 thousand E3M cards.

21 The third question was, "How do we respond to the
22 testimony of Nigel Jones and the 10 technical differences
23 that he believed existed between the Haifa hack and the
24 Nipper hack?" But if you'll recall Mr. Jones's testimony,
25 as well as the testimony of Dr. Avi Rubin from Johns

1 Hopkins, those technical differences were simply differences
2 in the style of coding that the authors used to relay that
3 hack methodology. Now, certainly you also recall that he
4 agreed Mr. Tarnovsky, a street trained hacker, one of the
5 best in the world, and Mr. Mordinson, a scholarly academic
6 programmer, would have differences in coding style.

7 The most important part of Nigel Jones's
8 testimony is that he simply could not tell you whether or
9 not Chris Tarnovsky was Nipper. All he could tell you was
10 that he believed there were differences in the two hack
11 methodologies. He agreed on a very critical point, though.
12 He agreed with Dr. Rubin that the four fundamental
13 components of both of those hack techniques were the same.

14 Now, does it matter that those four components are
15 required to be used in a buffer overflow attack? Absolutely
16 not. David Mordinson testified, as well as Zvi Shkedy, that
17 not only were they the best engineers in the world at doing
18 this, they were the only ones that discovered a way to
19 leverage the four components of EchoStar security system in
20 order to develop that hack.

21 Now, finally, Mr. Snyder asked, "Where are the
22 documents relating to the Nipper postings?" There is a ton
23 of evidence in the record, and we hope that you take the
24 time to look at that evidence. The most important is the
25 Headend Report itself. It's an admission by the defendants.

1 It's a detailed description on how to hack EchoStar security
2 system. The fact that they can come in here and attempt to
3 argue that that was lawful reverse engineering is simply not
4 credible.

5 The Judge will instruct you at the end of this
6 trial, and there is a very key instruction that deals with
7 the definition of reverse engineering, and that it can go
8 too far when it results in piracy, and that at that point,
9 the law prohibits it. That is what this case is about.

10 The ICG documents also establish a link between the
11 defendants and the Nipper post -- the NiPpEr2000 and
12 NipperClause posts.

13 Now, Mr. Snyder got up here and told you that
14 somehow EchoStar was working with ICG in this process.
15 This is the absolute first time that we have heard anything
16 about this, and if you want to be certain, think back to
17 the testimony of Jeff Bedser. The defendants put Mr. Bedser
18 on the stand, and he is the president and cofounder of ICG.
19 At no time in his testimony did he say EchoStar was somehow
20 working with DirecTV in their investigation into the
21 defendants' conduct. In fact, he said just the opposite.
22 He only worked with EchoStar on certain limited projects
23 dealing with the Bell ExpressVu system.

24 There is also the Hays County Narcotics Task Force
25 report and the RCMP fingerprint analysis that link

1 Christopher Tarnovsky to the receipt of the Headend Report,
2 the development of a Stinger to reprogram access cards, and
3 the receipt of cash payments from Canada related to those
4 reprogrammed cards.

5 Now, there are also a couple of exhibits that are
6 in the record that deal with IP traces, and the IP trace of
7 the Nipper posts relates to a server in the Ontario area.
8 There is two important things to remember about that. In
9 1998 when the defendants flew into the United States for
10 their second trip and they set up their elaborate operation
11 in a basement in Canada to test their hack, it was in
12 Ontario.

13 Second, they put Jim Emerson on the stand, and he
14 testified that they did a number of things to trace the IPs
15 from a number of different aliases used by Chris Tarnovsky.
16 "Big Gun," "Shrimp," "Coleman," all three of those aliases
17 went to different locations than California. Two of them
18 went to Ontario. Mr. Menard also has e-mail addresses that
19 were linked to Barrie, Ontario, or the Ontario area, and
20 it's -- it's certainly not surprising that that would be the
21 case.

22 Mr. Tarnovsky admitted to using proxies and
23 anonymizers and spoofing techniques to try to conceal his
24 identity while conducting piracy activities on the internet.
25 That's not the only evidence in the record of efforts that

1 were taken by the defendants to conceal their activity in
2 this case.

3 You saw an e-mail this morning from Avigail Gutman
4 that related to the Astro MEASAT system. That is another
5 competitor of the defendants. And in that e-mail,
6 Ms. Gutman is asking, "How do we get this box and this card
7 out into the field to distract the pirates away from our
8 system and force them to the MEASAT system? I want to make
9 certain that there is no way that this card or this box gets
10 traced back to us."

11 We also saw the e-mail exchange between
12 Tarnovsky's supervisor, John Norris, and Mr. Mordinson's
13 supervisor, Chaim Shenor, who the defendants refused to let
14 us depose in this case. And that e-mail says -- very, very
15 important -- a very, very important piece of evidence. It
16 says "We need to make absolutely certain that there is not a
17 hidden possibility of identifying the EchoStar card from
18 which our code comes from."

19 You also saw that -- the report that deals with
20 Mr. Kommerling's activities in the United States where he
21 flew in to do one of these undercover, legitimate
22 anti-piracy operations and when Mr. Kommerling, his conduct
23 was discovered by DirecTV, and they claimed they informed
24 about this project, and the authorities got involved. He
25 was instructed to erase his hard drive, to split it into two

1 separate parts, and to ship it by two separate couriers to
2 two separate locations overseas. That is compelling
3 evidence of an intent to conceal involvement and wrongdoing,
4 and that is something that we would like for you to consider
5 when looking at the other evidence that's been admitted
6 through the course of this trial.

7 Now, the end question that you have to ask
8 yourself is, is it more likely than not the defendants were
9 responsible for the publication of the hack methodology that
10 they developed in Haifa? And there are certain facts that
11 are not in dispute. It's simply the interpretation of those
12 facts that we're here to discuss.

13 It's a fact that in 1998, DirecTV was looking at
14 other conditional access providers, and the defendants knew
15 it. At that time, the defendants own internal documents,
16 which you will see in your deliberations show they were
17 fearful of losing their clients and fearful of losing their
18 jobs. In fact, they responded. They went out, and they
19 hired Chris Tarnovsky and Al Menard.

20 Fact, they built a lab in Israel for the sole
21 purpose of hacking their competitors' systems. Fact, they
22 developed the Headend Report, one for the EchoStar system
23 and one for the Canal+ system. They refused to produce to
24 us the report relating to the Canal+ system.

25 Fact, their engineers gave this information to

1 Christopher Tarnovsky and Oliver Kommerling, according to
2 Mr. Hasak, the two best hackers in the world, who they
3 agreed constituted a risk that they would continue to engage
4 in those activities once they were underneath the protective
5 NDS umbrella.

6 Fact, the hack methodology for EchoStar system and
7 the code for the Canal+ system were posted on Allen Menard's
8 website.

9 Fact, EchoStar expended over \$90 million to
10 replace its cards as a result of the piracy that came from
11 those publications.

12 The central question that you have to ask
13 yourself, is it more likely than not that the defendants
14 were responsible for the publication of that hack
15 methodology on Mr. Menard's website? And you have to ask
16 yourself if it is -- if they are convinced that
17 Mr. Tarnovsky did not have any involvement in this, why did
18 they go out and hire Mr. Menard within days of this lawsuit
19 being filed? Why did they pay Mr. Menard nearly \$400,000 in
20 what can only be categorized as hush money? Why did they
21 conceal Mr. Menard's employment relationship with them when
22 I was trying to compel his testimony?

23 It wasn't until after they terminated him that
24 they notified us that they had a relationship with
25 Mr. Menard. At that point, I could no longer compel them to

1 bring him here from Canada. That was a tactical decision on
2 their part, and you have to ask yourself, what is the
3 motivation for that, both for hiring Mr. Menard after the
4 post and after the lawsuit, and for firing him, tactically,
5 before we had an opportunity to bring him down here to
6 testify live?

7 Fact, Stanley Frost was a distributor of pirated
8 EchoStar access cards. Fact, he had a relationship with the
9 defendants and with DirecTV during the time that the
10 defendants and DirecTV were jointly owned by News
11 Corporation. They would not bring Mr. Frost here either,
12 and why is that? You saw his deposition. He categorically
13 refused to answer any questions about the distribution
14 network that he and Mr. Menard and NDS participated in. We
15 know that he knows the difference between an answer that
16 could get him in criminal trouble and an answer that does
17 not. Go back to one part of his testimony.

18 I asked him, "Mr. Frost, did you ever receive
19 reprogrammed EchoStar Smart Cards from Chris Tarnovsky?"

20 Response: "I can't answer that. I plead the
21 Fifth."

22 "Mr. Frost, did you ever receive reprogrammed
23 EchoStar Smart Cards from Larry Rissler of DirecTV?"

24 His answer: "No, I did not."

25 He knows the difference between right and wrong,

1 and he knows the difference between an answer that does not
2 hurt the defendants in this case and one that does. In a
3 civil case, you are entitled to infer that Mr. Frost's
4 answer, had he given it and not refused to provide it, would
5 have been further evidence to establish that distribution
6 network and the connection between Chris Tarnovsky and NDS
7 to that distribution network.

8 Fact, after the Canal+ code was -- was posted on
9 Mr. Menard's website, they filed a lawsuit against NDS.
10 News Corp bought out Canal; the lawsuit went away. When
11 DirecTV sued NDS for piracy of its system, News Corp bought
12 out the controlling share of DirecTV, and that lawsuit went
13 away.

14 After that lawsuit went away, ICG and TDI were
15 instructed by the lawyers to destroy all of the underlying
16 data that supported their reports linking Christopher
17 Tarnovsky to the Nipper posts. You have to ask yourself,
18 why is that? You are required to set aside your prejudices
19 and predispositions when you deliberate and answer these
20 questions, but you are not required to set aside your common
21 sense.

22 Now, we -- we heard a lot of argument by
23 Mr. Snyder about EchoStar's circle of proof. The first time
24 I had heard it, so on a break, I decided to put together a
25 circle of proof for the defendants' theory.

1 They can't admit that Chris Tarnovsky was Nipper,
2 so they bring you a number of other theories. Margaret
3 Koops, Dawn Branton, Tech Electronics, the EROM guys, Dennis
4 Renault and the Barrie Group, Chris Maskel, Mike Manieri,
5 Jim Waters, or Jim Waters' engineer. You didn't hear any of
6 these people testify in this case. You didn't hear any
7 evidence from them. The defendants couldn't even bring you
8 one of these individuals to tell you, "I may have been
9 Nipper. I may have known who Nipper was."

10 The Court will instruct you that you cannot
11 consider arguments by the attorneys as evidence. That
12 applies to the plaintiffs, as well as the defendants. So
13 the entire first hour of their closing argument about these
14 theories, you must disregard them, because you didn't hear
15 any testimony from any of these individuals.

16 THE COURT: Counsel, do you want to use the
17 microphone if you are going to be in that position?

18 MR. HAGAN: Now, you also heard a lot from
19 Mr. Snyder about the anti-piracy activities of NDS and their
20 employees and how these activities were legitimate, and the
21 most prominent example of that was Operation Johnny Walker.
22 As a result of that operation, Chris Tarnovsky received over
23 \$20,000 cash concealed inside electronic equipment shipped
24 through an NDS mail account in Virginia. If that operation
25 was legitimate, would they have allowed Mr. Tarnovsky to

1 keep the cash? If that operation was legitimate, wouldn't
2 they have turned that cash over to government officials or
3 at least notified government officials so that they could
4 initiate prosecutorial actions against whoever sent that
5 cash?

6 I deposed Mr. Tarnovsky for a second time
7 earlier -- I'm sorry, later last year, and he had been fired
8 from NDS. And to that day, he still had the money. There
9 is nothing legitimate about Mr. Tarnovsky creating pirate
10 software, shipping it to Canada, using it to develop pirated
11 access cards and accepting and keeping cash related to that
12 activity. There is nothing legitimate about that.

13 Now, let's talk a little bit more about the
14 defendants' efforts to cover up their involvement in this
15 case.

16 You heard from Mr. Norris, and Mr. Norris told you
17 that Dean Love, when he was working with NDS trying to
18 negotiate a settlement, he told Norris that he had
19 compelling evidence that linked Chris Tarnovsky and Al
20 Menard to the hack of EchoStar's system. Mr. Norris could
21 have sent anyone up there to look at that evidence and
22 inspect that evidence, and who did he send? Out of all the
23 employees that NDS had, he sent Chris Tarnovsky's father,
24 and he didn't even send him under that name, George
25 Tarnovsky, he sent him under an alias, "Joe Z.", so the

1 attorneys representing Mr. Love and the other attorneys
2 present at that meeting had no knowledge that the person
3 coming up there to look for evidence of Chris Tarnovsky and
4 Al Menard's involvement in this was Chris Tarnovsky's own
5 father.

6 What does logic and common sense tell you about
7 that? They didn't send him up there to collect criminal
8 evidence against his son. They sent him up there to make
9 certain that that evidence never surfaced, and it worked.
10 We never got it.

11 We also asked for Chris Tarnovsky's hard drives,
12 forensic images of those hard drives, and every one of the
13 experts that took the stand in this case, including the
14 defendants' experts, told you that that was the one place to
15 look for dispositive, conclusive proof that Chris Tarnovsky
16 did this. And if they were so interested in finding the
17 truth, they would have paraded those hard drives in here,
18 and they would have paraded in here a number of other
19 experts, well-paid experts, to get up on the stand and
20 testify to you that they forensically examined
21 Mr. Tarnovsky's hard drives, as well as Mr. Menard's hard
22 drives, who at that time was under their control and under
23 their payroll, and they found no evidence linking them to
24 the postings. I subpoenaed those hard drives. They
25 wouldn't turn them over.

1 What did they tell you about those hard drives?
2 They told you that they conducted a key word search to make
3 sure that there was no evidence on there linking Chris or Al
4 to the Nipper posts. We didn't provide those key words. I
5 don't even know what those keys words were. They could have
6 intentionally excluded the key word "Nipper."

7 Now, you are also going to have an opportunity to
8 look at Exhibit 2057, and I want you to pay particular
9 attention to this exhibit. This is a fax from Reuven Hasak
10 to Ms. Gavencheck at News Corp, which was then sent to the
11 NDS lawyers in this case. It identifies and includes two
12 EchoStar 3M cards with Mr. Menard's dr7 sticker on them.
13 They didn't produce those cards to us during discovery.

14 Now, when you look at the instruction from the
15 Court about what is lawful reverse engineering and what is
16 piracy, I know that some of you, from voir dire, have
17 experience in reverse engineering. Please take the time to
18 look at the Headend Report, Exhibit 98. Take the time to go
19 through the sections in that report and ask yourself, is
20 this legal reverse engineering under the definition provided
21 by the Court, or is this the facilitation of piracy? That
22 is a very important --

23 THE COURT: Five more minutes, Counsel.

24 MR. HAGAN: Thank you, your Honor.

25 You are also not going to find anything in that

1 report that deals with any efforts by the defendants to
2 improve their technology. That is lawful reverse
3 engineering. Hacking is what they did. In fact,
4 Mr. Mordinson admitted to that on the stand.

5 Exhibit 726-E -- 726-E, that is the IP search
6 produced by the defendants' expert, Jim Emerson. Take a
7 look at that and the link between Chris Tarnovsky's aliases
8 and a number of other places that don't include California,
9 but which do include Ontario.

10 Now, you are going to see a RICO claim in the
11 packet, and we didn't have an opportunity to fully address
12 that, but the issues in that claim are the same. Was there
13 an enterprise? Absolutely. Chris Tarnovsky was paid by
14 HarperCollins, paid by NDS in Israel and controlled by NDS
15 Americas. He had a far-reaching grasp with Mr. Menard in
16 Canada and Dave Dawson and Stan Frost and the distribution
17 network for pirated EchoStar Smart Cards.

18 Finally, if Chris Tarnovsky was not Nipper, and if
19 xbr21 was Nipper, how did Chris Tarnovsky know a day before
20 the xbr21 post that the cat was going to be out of the bag?
21 They didn't address that in their closing, because they
22 can't. And when you go back there and you think about that
23 with reason and common sense, you'll understand why they
24 can't address that. There is no explanation.

25 And finally, ladies and gentlemen, there -- there

1 is going to be a number of questions on damages, and one of
2 them is punitive damages. And -- and in that question, we
3 are asking you to send a message to the defendants that this
4 has to stop. This cannot go on like this in the United
5 States. We looked at the Canal+ system that they hacked and
6 posted on the internet. We looked at our system that they
7 hacked and posted on the internet. We looked at the
8 documents related to the Astro MEASAT system that they
9 distributed, pirated boxes and cards that they didn't want
10 linked to them. Someone has to send them a message that
11 this has to stop. Canal tried; they bought them. DirecTV
12 tried; they bought them.

13 Now, we would ask that you consider all of the
14 evidence, that you not check your common sense and -- and
15 reason and logic skills at the door when you look at this
16 evidence, that you take an opportunity to really consider
17 all the documents and how they fit together. And EchoStar
18 and NagraStar respectfully request that you return a verdict
19 in their favor on each of the claims and send a message to
20 the defendants that this is not how we conduct legitimate
21 business in the United States.

22 Thank you very much for the sacrifices that you
23 have made over the past few weeks. Our clients appreciate
24 it.

25 THE COURT: All right. Thank you, Counsel.

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Counsel, could I see just lead counsel for just a moment.

Why don't you just stand up and stretch for a moment. I am not going to let you go and take another recess. I will be right back.

(Recess.)

-oOo-

1 -oOo-

2 CERTIFICATE

3
4 I hereby certify that pursuant to Section 753,
5 Title 28, United States Code, the foregoing is a true and
6 correct transcript of the stenographically reported
7 proceedings held in the above-entitled matter and that the
8 transcript page format is in conformance with the
9 regulations of the Judicial Conference of the United States.

10
11 Date: May 8, 2008

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14 _____
15 JANE C.S. RULE, U.S. COURT REPORTER

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