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15	UNITED STA	TES DISTRICT COURT	
	CENTRAL DISTRICT OF CALIFORNIA		
16	SOUTHERN DIVISION		
17 18		No. SA CV 03-950 DOC(JTL)	
19	ECHOSTAR SATELLITE CORP., et al.,	PLAINTIFFS' PROPOSED	
20	Plaintiffs/ Counterclaim	FINDINGS OF FACT AND CONCLUSIONS OF LAW RE:	
21	Defendants, v.	CALIFORNIA BUSINESS AND PROFESSIONS CODE § 17200	
22	NDS GROUP PLC, et al.,		
23			
24	Defendants/ Counterclaim Plaintiffs.		
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Plaintiffs' Proposed Findings of Fact and Conclusions of Law re § 17200 WEST\21418995.1

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Plaintiffs EchoStar Satellite L.L.C. f/k/a EchoStar Satellite Corporation, EchoStar Technologies Corporation, and NagraStar L.L.C. (collectively, "Plaintiffs" or "EchoStar") respectfully submit these proposed findings of fact and conclusions of law regarding the liability of Defendants NDS Group PLC and NDS Americas, Inc. (collectively, "Defendants" or "NDS") under California Business and Professions Code § 17200 and remedies thereunder, pursuant to Fed. R. Civ. P. 52.

I. PROPOSED FINDINGS OF FACT

Based upon the evidence presented at trial, the Court hereby makes the following findings of fact:

Plaintiffs and Defendants and Related Entities Compete in the U.S. Satellite Television Market.

- 1. EchoStar is one of the largest satellite providers in the United States and offers about 500 television channels with various subscription packages to consumers. (Ergen Trial Testimony 4/9/08, Vol. 5 p. 8:18-9:20.)
- 2. Under the name DISH Network, EchoStar provides programming to paying subscribers. (*Id.* pp. 7:17-8:10, 8:18-9:20.)
- 3. EchoStar generally pays the programming companies a fee for each subscriber to which it broadcasts the programming. (*Id.*)
- 4. EchoStar contracts with programming companies such as Disney, which owns ESPN and the Disney Channel. (*Id.* p. 9:9-20.)
- 5. EchoStar also has its own copyrighted programming that it broadcasts on the DISH Network to paying subscribers. (*Id.* p. 10:20-23.)
- 6. EchoStar makes a substantial investment in encryption systems or conditional access systems ("CAS") to prevent people from taking its satellite signals without authorization. (*Id.* p. 11:8-22.)
- 7. A CAS allows a customer to receive only channels for which the customer pays by sending a key through the satellite to the "SmartCard" in the

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customer's set-top box; the key unlocks the channels for which the customer has paid (and does not unlock the channels for which the customer has not paid). (*Id.* p. 13:17-12; Lenoir Trial Testimony 4/10/08, Vol. 1, p. 52:22-53:4.)

- 8. Plaintiff NagraStar is a joint venture of EchoStar and the Kudelski Group in Switzerland. (Ergen Trial Testimony 4/9/08, Vol. 5 p. 50:21-p. 51:7.)
- 9. NagraStar provides the SmartCards used in EchoStar's CAS, as well as security-related and maintenance services to EchoStar. (Lenoir Trial Testimony 04/10/08, Vol. 1, pp. 52:22-53:4; 55:10-15.)
- 10. Defendant NDS also provides CASs and is the biggest competitor of the Kudelski Group. (*Id.* p. 59:8-11.)
- 11. NDS has 32% of the market and NagraStar has 30% of the market. (*Id.* p. 60:6-8.)
- 12. At all times relevant to this lawsuit, NDS provided DirecTV's CAS in the United States. (Shkedy Trial Testimony 04/10/08, Vol. 3, p. 10:20-11:1; Dov Rubin Trial Testimony 4/22/08, Vol. 1, p. 13:20-24.)
- 13. DirecTV was NDS's largest customer in the United States. (Dov Rubin Trial Testimony 4/22/08, Vol. 1, p. 14:6-11.)

Afraid of Losing Their Largest Customer, Defendants Engaged in a Series of Schemes to Hack and Pirate Satellite Television Providers.

- 14. In 1997-2002, Defendants experienced significant problems with the circumvention of their encryption technology (*i.e.*, CAS) by pirates in both the United States and Europe. (Shkedy Trial Testimony 04/10/08, Vol. 3, p. 10:20-11:1; Dov Rubin Trial Testimony 4/17/08, Vol. 1, pp. 68:11-17; 78:15-79:1; Norris Trial Testimony 4/16/08, Vol. 4, p. 24:6-25:5; Tarnovsky Trial Testimony 04/23/08, Vol. 1 p. 58:9-15.)
- 15. As a result, DirecTV was considering other suppliers, including NagraStar, and NDS was afraid it was going to lose DirecTV, its largest customer. (Dov Rubin Trial Testimony 4/22/08, Vol. 1, p. 58:9-19; Andre Kudelski Trial

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Testimony 5/6/08, Vol. 1, p. [trans. not yet avail.])

- 16. At the same time, NDS sought EchoStar as a customer. (Dov Rubin Trial Testimony 4/22/08, Vol. 1, p. 77:25-78:17.)
- 17. To prevent losing DirecTV as a customer, NDS developed a strategy of co-opting the pirates; in other words, "pay[ing] them not to pirate your system and hope they pirate your competition." (TR EX 360.)
- 18. NDS was aware that it was helpful to its marketing efforts to tell customers that its competitor's CAS had been hacked or compromised. (Segoly Trial Testimony 04/11/08, Vol. 2, p. 82:25-83:7 ("If competitor is hacked or compromised, yes, it is important for marketing and sales."), p. 85:1-5 (talking about EchoStar's system: "if it's hacked, and if it's available on the Internet, and if there are devices out there, then yes, it is important."); Dov Rubin Trial Testimony 4/22/08, Vol. 1, p. 26:18, 27:2-33:16; TR EX 1270.)
- 19. As part of the company strategy, starting in 1997, NDS initiated efforts to recruit and employ satellite hackers Christopher Tarnovsky ("Tarnovsky") and Oliver Kommerling ("Kommerling"), whom Defendants believed to be a major source of their piracy problems. (Norris Trial Testimony 04/17/08, Vol. 2, p. 73:3-20.)
- 20. Indeed, Tarnovsky admitted that prior to going to work for NDS, he was engaged in compromising NDS's CAS, which allowed DirecTV programming to be stolen. (Tarnovsky Trial Testimony 04/23/08, Vol. 1, pp. 52:14-21, 58:13-14; Vol. 3, p. 55:25-58:5.)
- 21. Tarnovsky freely admitted that he was a "hacker." (*Id.* p. 55:2-4; TR EX 6-A ("My name is Chris Tarnovsky, and I'm a hacker.").) Specifically, Ron Ereiser ("Ereiser") hired Tarnovsky to hack the DirecTV system and paid Tarnovsky \$20,000. (Tarnvosky Trial Testimony 04/23/08, Vol. 3 p. 58:15-59:5.)
- 22. Tarnovsky worked with Ereiser for approximately nine months before going to work for NDS as discussed further below. (*Id.* p. 60:1-5.)

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- 23. NDS was aware of Tarnovsky's and Kommerling's hacking activities in fact, NDS recruited Tarnovsky and Kommerling because NDS considered them to be the "two best hackers in the world," even though they considered these hacking activities to be illegal. (Norris Trial Testimony 04/16/08, Vol. 4, p. 23:23-24:5; Dov Rubin Trial Testimony 4/22/08, Vol. 1, p. 15:3-6; Segoly Trial Testimony 04/11/08, Vol. II, p. 73:18-23; Hasak Trial Testimony 05/01/08, Vol. 1, p. 77:10-24.).
- 24. When NDS hired Tarnovsky, NDS knew that Tarnovsky had relationships with known pirates and that his friend Alan Menard ("Menard") was using a pirate card Tarnovsky had developed to hack DirecTV. (Tarnovsky Trial Testimony 04/23/08, Vol. 3, p. 36:25-37:7.)
- 25. NDS also knew that there was a risk that Tarnovsky would continue to engage in his illegal hacking activities. (Dov Rubin Trial Testimony 4/22/08, Vol. 1, p. 15:3-12; Segoly Trial Testimony 4/11/08, Vol. 2, pp. 77:22-78:2, 78:13-16.)
- 26. NDS nonetheless hired Tarnovsky. (Dov Rubin Trial Testimony 4/22/08, Vol. 1, p. 15:3-12.)
- 27. NDS set up a lab for Tarnovsky in his house and allowed Tarnovsky to work from his house during the nearly ten (10) years he was a NDS employee. (Tarnovsky Trial Testimony 4/23/08, Vol. 2, p. 3:4-9; Vol. 3, p. 23:2-9 (house was an "NDS-equipped lab"); Hasak Trial Testimony 5/1/08, Vol. 1, p. 22:18-23:12 (NDS installed an alarm to secure lab in Tarnovsky's home).)
- 28. When NDS hired Tarnovsky, they paid him \$65,000 a year, \$14,000 in moving expenses, and a \$10,000 loan that could be forgiven in two years. (Tarnovsky Trial Testimony 04/25/08, Vol. 3, p. 63:8-13.)

<u>Defendants Hacked Plaintiffs' CAS for Competitive Advantage,</u> <u>Not to Improve Their Own System.</u>

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29. Defendants "reversed engineered" and "hacked" Plaintiffs' security system at Defendants' research laboratory in Haifa, Israel over a period of six (6)

months. (Shkedy Trial Testimony 04/10/08, Vol. 2, p. 57:13-19; *see* TR EX 2-A (Initial Draft of Headend Report); TR EX 98 (Headend Report); Dov Rubin Trial Testimony 4/17/08, Vol. 1, pp. 74:3-74:15, 75:18-76:24; Hasak Trial Testimony 5/1/08, Vol. 1, p. 71:18-21.)

- 30. Defendants' engineers Zvi Shkedy and David Mordinson extracted the proprietary ROM and EEPROM codes from the microprocessor of one of Plaintiffs' access cards and analyzed the code to identify weaknesses and vulnerabilities (which was the purpose of the hacking). (Shkedy Trial Testimony 04/10/08, Vol. 2, p. 57:13-19.)
- 31. Mordinson and Shkedy traveled to New Jersey to log data needed to complete the hack. (*Id.* p. 23:15-24:17.)
- 32. Reuven Hasak, one of the senior officers of NDS at the time, set Mordinson and Shkedy up with someone in New Jersey so they could log communications between a set-top box and the Smart Card. (*Id.*)
- 33. Mordinson and Shkedy later traveled to Windsor, Canada, via Cleveland and Baltimore, to successfully test the hack in someone's basement. (Shkedy Trial Testimony 04/10/08, Vol. 3, pp. 25:3-8, 75:12-16; Mordinson Trial Testimony 04/11/08, Vol. 1, pp. 32:6-11, 33:2-12, 35:15-36:1, 36:9-14; Vol. 2 at p. 32:18-33:5.)
- 34. Defendants then prepared a written report that described, in detail: (1) the secret characteristics Defendants discovered in Plaintiffs' microprocessor, (2) the technique Defendants developed to exploit those characteristics, and (3) the process to effectuate a commercial hack of Plaintiffs' encryption system in the United States. (Shkedy Trial Testimony 04/10/08, Vol. 3, p. 19:17-19; Mordinson Trial Testimony 4/10/08, [SPEC] VOL., p. 42:25-16.)
- 35. This report was called the "Headend Report." (Shkedy Trial Testimony 04/10/08, Vol. 3, pp. 7:1-6, 8:5-8, 19:17-19; Mordinson Trial Testimony

04/11/08, Vol. No. 1, p. 5:17-25; TR EX 2A (Initial Draft Headend Report dated 10/27/98); TR EX 98 (final Headend Report).)

- 36. The Headend Report is a "how to" manual for how to break the CAM for the EchoStar system. (Avi Rubin Trial Testimony 4/16/08, Vol. 2, p. 72:5-14.)
- 37. It describes what is in various memory locations, and it gives the code for a message that can be used to run the attackers' code on the card by exploiting certain vulnerabilities. (*Id.* p. 72:5-14.)
- 38. Importantly, there is nothing in the Headend Report about improving the robustness of Defendants' own product. (Avi Rubin Trial Testimony 4/16/08, Vol. 3, p. 27:11-28:12.)
- 39. Indeed, the Headend Report does not contain a single section describing how Defendants could use the hacked methodology and the information they learned from the hack of Plaintiffs' security system to improve Defendants' technology. (TR EX 98 (Headend Report).)
- 40. In fact, the ST Thomson chip ST16CF54 CPU, which is the microprocessor chip in Plaintiffs' SmartCard and the subject of the Headend Report, was never a chip that NDS used. (Shkedy Trial Testimony 04/10/08, Vol. 3, pp. 9:18-10:3, 10:9-19; TR EX 2-A (Initial Draft of Headend Report) at p. 11; TR EX 98 (Headend Report).)
- 41. Knowing the structure of the fields of the memory code in Plaintiffs' access card from ST Thomson did not make NDS's security technology any more secure. (Shkedy Trial Testimony 04/10/08, Vol. 3, p. 27:2-5.)
- 42. The hack of Plaintiffs' security system was not done to combat the piracy that DirecTV (and thus NDS) was suffering. (Shkedy Trial Testimony 04/10/08, Vol. 3, p. 10:20-11:1.)
- 43. Rather, the Headend Report "teaches anyone that reads it how to create a 3M hack of the EchoStar access cards." (Shkedy Trial Testimony 04/10/08, Vol. 3, p. 28:6-9; TR EX 98 (Headend Report).)

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- 44. The Headend Report thus describes how a satellite hacker, or pirate, can view EchoStar's signals without paying for them. (Shkedy Trial Testimony 04/10/08, Vol. 3, p. 13:9-13; TR EX 2-A (Initial Draft of Headend Report, p. 13, ¶ 3.5.2); TR EX 98 (Headend Report).)
- 45. Indeed, the Headend Report expressly states, "This is a classic 3M hack. The subscriber subscribing to a basic package of service for a minimal possible charge can view any services, excluding PPV, even if he/she is not authorized to view them." (Shkedy Trial Testimony 04/10/08, Vol. 3, p. 12:23-13:5; TR EX 2-A (Initial Draft of Headend Report, p. 13, ¶ 3.5.2); TR EX 98 (Headend Report).)

<u>Defendants Provided the Headend Report, or Portions of It, to</u> <u>Tarnovsky to Facilitate the Piracy of EchoStar Cards.</u>

- 46. Defendants did not keep Headend Report confidential. Instead, NDS gave the report to Kommerling. (Shkedy Trial Testimony 04/10/08, Vol. 3, p. 19:3-9.)
- 47. Additionally, Tarnovsky had a number of "technical exchanges" with the engineers in Haifa, Israel and saw the Headend Report at one of the "technical exchanges" with Mordinson. (Tarnovsky Trial Testimony 04/23/08, Vol. 3, p. 11:5-14.)
- 48. Mordinson also flew to California and showed Tarnovsky portions of the Headend Report. (*Id.* p. 11:5-13:24).
- 49. When asked direct questions as to the timing of when he saw the Headend Report, Tarnovsky provided inconsistent answers: at trial, he attempted to testify that he was certain he saw the Headend Report after the December 2000 postings (*Id.*, p. 17:17-18:8); at his deposition, Tarnovsky said that it was more likely than not that he saw the Headend Report in 1999; and at several other points, Tarnovsky said it was in 2001 after the December 2000 posting; at one point, Tarnovsky also said that he saw the Headend Report during the "P3 era." (*Id.*, p.

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Canal+, which was substantially similar to the EchoStar hack and which also was

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1	posted on the Internet. (Saggiori Trial Testimony 4/16/08, Vol. 2, p. 50:25-52:15;
2	Mordinson Trial Testimony 04/11/08, Vol. 1, p. 35:25-36:14; Shkedy Trial
3	Testimony 04/10/08, Vol. 2, p. 49:11-18.)
4	71. At the time of the Nipper Post, Tarnovsky's salary was not paid by his
5	employer NDS Americas; rather, it was paid by a related entity, HarperCollins.
6	(Abe Peled Trial Testimony 05/6/08, Vol. 2, p. 104:1-3.)
7	72. Also, at the end of 2006, Mr. Tarnovsky received a \$5,000 bonus from
8	NDS Israel (also not Tarnovsky's employer) – home to the Haifa Research Center
9	from which the EchoStar hack originated. (Id., p. 104:4-9.)
10	Plaintiffs Were Materially Harmed by Defendants' Conduct.
11	73. Defendants' hack methodology and the identified vulnerability, which
12	was published on the Internet in December 2000, was effective as to all EchoStar
13	ROM3 access cards and allowed pirates (and others) to make their own pirated
14	ROM3 cards. (Nicolas Trial Testimony 4/15/08, Vol. 1, p. 42:7-21.)
15	74. These pirated ROM3 cards then could be used to circumvent
16	Plaintiffs' security system and steal EchoStar's copyrighted programming. (<i>Id.</i> pp.
17	23:6-18, 23:19-24:1, 42:7-16.)
18	75. Immediately following the December 2000 postings, NagraCard's
19	Senior Vice President and Chief Technology Officer, Christophe Nicolas, led the
20	team that developed software updates (patches) and a February 2001 electronic
21	countermeasure ("ECM") designed to combat the piracy. (<i>Id.</i> , p. 68:21-71:15.)
22	76. Combating the piracy was not a simple matter, because any change to
23	the code could seriously slow the operation of the card and thus increase the wait
24	time of the customer using an EchoStar receiver. (Avi Rubin Trial Testimony
25	4/16/08, Vol. 3, p. 127:1-129:8.)
26	77. This is illustrated by the fact that when Nagra issued a patch or ECM
27	in February 2001, the programming had to be completely restructured. (<i>Id.</i> , p.
28	127:1-129:8.)

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- 78. The ECM launched in February 2001 was designed to disable pirate access cards that had been reprogrammed using Defendants' hack methodology published on the Internet. (Nicolas Trial Testimony 04/15/08, Vol. 1, p. 70:14-71:15.)
- 79. But the patch was not completely effective, because pirates could circumvent it with a blocker or by "glitching." (Avi Rubin Trial Testimony 4/16/08, Vol. 3, p. 134:2-16; Vol. 4, p. 4:7-9; Nicolas Trial Testimony 04/15/08, Vol. 1, p. 71:16-72:5; Tarnovsky Trial Testimony 04/23/08, Vol. 4, pp. 54:22-25, 55:7-10 (pirates used blockers to block the ECMs and glitching to "bounce over" them).)
- 80. Nonetheless, Plaintiffs continued to try to combat piracy. Eventually, however, a global card swap of all DNASP-II access cards with a different encryption platform became necessary even though Plaintiffs did everything to avoid a card swap. (Nicolas Trial Testimony 04/15/08, Vol. 1, p. 72:6-73:6; *see also* Tarnovsky Trial Testimony 04/23/08, Vol. 3, p. 35:18-36:1; TR EX 41.)
- 81. The global card swap began in 2002 and ended in 2005. (Nicolas Trial Testimony 04/15/08, Vol. 1, p. 72:6-72:23; Vol. 2, p. 77:2-8; *see also* Tarnovsky Trial Testimony 04/23/08, Vol. 3, p. 35:18-36:1; TR EX 41.)
- 82. The cost to EchoStar of the global card swap were almost \$94,638,625.10. (Lenoir Trial Testimony 04/10/08, Vol. 1, p. 64:11-16; Orban Trial Testimony 04/17/08, Vol. 4, p. 8:7-13:2.) Thus, the value to EchoStar of a secure card is approximately \$94, 638, 625.10.
- 83. The global card swap cost NagraStar approximately \$1.3 million. (Lenoir Trial Testimony 04/10/08, Vol. 1, p. 64:11-16.)
- 84. NagraStar also suffered damages to its reputation and to its goodwill with customers. (Lenoir Trial Testimony 04/10/08, Vol. 1, p. 64:21-65:8.)
- 85. The costs of piracy are ultimately borne by the consumer; if piracy is significant, it results in an increase in security costs, which are then passed on to the

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consumer through increases in pricing. (Peled Trial Testimony 5/6/08, Vol. 2, pp. 117:9-21, 118:9-13.)

II. DISCUSSION AND CONCLUSIONS OF LAW

A. Defendants Have Engaged in Unlawful Business Practices.

California Business and Professions Code § 17200 includes in its definition of unfair competition any unlawful business practice – *i.e.*, a business practice that violates another law. Any act that is forbidden by law, either civil or criminal; federal, state, or municipal; statutory, regulatory, or court-made can be a predicate for § 17200 liability. *People v. Fremont Life Ins. Co.*, 104 Cal. App. 4th 508, 515 (2003); *Nat'l Rural Telecom. Coop. v. DirecTV, Inc.*, 319 F. Supp. 2d 1059, 1074 (C.D. Cal. 2003). In effect, the "unlawful" prong of § 17200 makes a violation of the underlying law a *per se* violation of § 17200. *Kasky v. Nike, Inc.*, 27 Cal. 4th 939, 950 (2002); *Cel-Tech Communications, Inc. v. Los Angeles Cellular Tele. Co.*, 20 Cal. 4th 163, 180 (1999); *Farmers Ins. Exch. v. Superior Court*, 2 Cal. 4th 377, 383 (1992). Moreover, California Business and Professions Code remedies and penalties are cumulative to those imposed under other laws. *Id.*

A violation of any statute or regulation can be a predicate for § 17200 liability. In *Southwest Marine, Inc. v. Triple A Machine Shop, Inc.*, 720 F. Supp. 805 (N.D. Cal. 1989), the plaintiff, an unsuccessful bidder on a Navy contract, sued the successful bidder, alleging that the successful bidder was able to underbid only because of its practice of illegally disposing of hazardous wastes, allowing its costs to be lower than those of the unsuccessful bidder plaintiff. 720 F. Supp. at 807. The successful bidder's disposing of hazardous wastes was alleged to be a violation of several environmental laws, as well as a Navy procurement regulation that required bidders to certify their compliance with all existing laws. *Id.* The Court held that these allegations stated a claim for relief under § 17200. *Id.* at 808; *see also Citizens for a Better Environment-California v. Union Oil of Cal.*, 996 F. Supp. 934, 938 (N.D. Cal. 1997) (holding liability under § 17200 could be

predicated on a violation of the Federal Clean Water Act).

Similarly, in *People v. E.W.A.P. Inc.*, 106 Cal. App. 3d 315, 317 (1980), the Court found that an unlawful business practice was adequately pled where the defendant was alleged to have distributed obscene matter in violation of California Penal Code § 311.2. 106 Cal. App. 3d at 317. The Court observed that "[Section 17200] [is] liberally construed so as not to be limited to traditional anticompetitive practices." *Id.* at 318. The Court further noted that the California Supreme Court has stated that the meaning of unfair competition is "anything that can properly be called a business practice and that at the same time is forbidden by law." *Id.* at 319 (quoting *Barquis v. Merchants Collection Assn.*, 7 Cal. 3d 94, 112-113 (1972)).

A single act is sufficient to constitute a "business practice" under § 17200; it does not require proof of a pattern or course of conduct. *Klein v. Earth Elements, Inc.*, 59 Cal. App. 4th 965, 969 n.3 (1997); *Podolsky v. First Healthcare Corp.*, 50 Cal. App. 4th 632, 653-54 (1996).

Here, the jury found that Defendants have violated the Communications Act of 1934, 47 U.S.C. § 605(a) and California Penal Code § 593e(b), all to gain a competitive advantage over Plaintiffs. While the Court must make its own independent findings, it may adopt the jury's findings as appropriate. *A-C Co. v. Security Pacific Nat. Bank*, 173 Cal.App.3d 462, 474, 219 Cal.Rptr. 62, 69 (Dist. 4 1986).

Therefore, the Court makes the following conclusions of law:

- 1. The jury's finding that Defendants violated the Communications Act of 1934, 47 U.S.C. § 605(a) and California Penal Code §§ 593d(a) and 593e(b) is supported by the evidence, therefore the Court adopts the jury's finding.
- 2. Because a violation of any *one* of these statutes is a *per se* violation of § 17200, Defendants have engaged in an unlawful business practice in violation of § 17200.

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B. Defendants Have Engaged In Unfair Business Practices.

Even absent a statutory violation by Defendants, Plaintiff may recover under the "unfair" prong of § 17200. Indeed, because the purpose of the antitrust law is to encourage competition by prohibiting "practices by which fair and honest competition is destroyed or prevented," conduct may be unfair under § 17200 even if it is not specifically proscribed by some other law. *Cel-Tech Comm., Inc.*, 20 Cal. 4th at 186 (quoting Cal. Bus. & Prof. Code § 17001).

In *Cel-Tech*, the California Supreme Court articulated a test for determining when a business practice constitutes unfair competition. *Id.* at 186-87. A competitor's act or practice is "unfair" if it: (1) threatens an incipient violation of an antitrust law, (2) violates the policy or spirit of one of those laws because its effects are comparable to or the same as a violation of the law, or (3) otherwise significantly threatens or harms competition. *Id.* The plaintiffs alleged that the defendants, a cellular phone service and sales duopoly, sold phones at below market prices subsidized by service revenues. *Id.* at 168-69. Several companies that competed with the service-provider defendants challenged these practices as unfair competition under § 17200. *Id.* The California Supreme Court found that the plaintiffs had alleged plausibly anti-competitive conduct, even though the conduct may not have risen to the level of a violation of antitrust law. *Id.* at 188-91.

Similarly, in *MGA Entertainment, Inc. v. Mattel Inc.*, Judge Manella stated that "the purpose of destroying a competitor by means that are not within the area of fair and honest competition is a purpose that clearly subverts the goal of the [antitrust laws]." *Mattel*, No. CV 05-2727 NM (RNBx), 2005 WL 5894689 (C.D. Cal. Aug. 26, 2005) (unpublished) (quoting *Northeast Airlines, Inc. v. World Airways, Inc.*, 262 F. Supp. 316, 319 (D. Mass. 1966)). Applying this principle, the Court found that allegations by some of Mattel's competitors, including that Mattel competed by unfairly using its extraordinary market power to preclude other

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companies and brands from entering and competing in the market, rather than by creating a better product or lowering its prices, were sufficient to state a claim under § 17200. *Mattel* at **8-9. Specifically, the plaintiff alleged that Mattel, in response to a dwindling market share, engaged in serial copycatting of the plaintiff's products and attempted to intimidate former employees and distributors and retailers into terminating their relationships with plaintiff. *Id.* at **1-2. The court held that such conduct, if proven at trial, supported a finding that Mattel's practices were "unfair" under either the second or third prong of the *Cel-Tech* test because the conduct violated the policy or spirit of, or had effects comparable to, a violation of the antitrust laws, or because they otherwise significantly threatened or harmed competition. *Id.* at *7.

In Silicon Image, Inc. v. Analogix Semiconductor, Inc., Judge Spero in the Northern District of California held that the plaintiff alleged unfair business practices under § 17200 where the defendant competitor copied, without authorization, the plaintiff's semiconductor design and configuration software and marketed them as replacements for the plaintiff's product. No. C-07-0635 JCS, 2007 WL 1455903 at *6 (N.D. Cal. May 16, 2007) (unpublished). The plaintiff enjoyed a competitive advantage in the marketplace, in part as a result of its semiconductor designs, which it had developed "[a]t great expense and effort" and which accounted for the "high performance" of its chips. *Id.* at *1. The defendant undercut the plaintiff's efforts by copying the plaintiff's design and marketing its chips as "drop-in replaceable" with the plaintiff's chips, even though use of the defendant's chips with the plaintiff's configuration software violated the plaintiff's Software License Agreement with its customers. Id. The court held that these allegations could support the inference that the defendant's conduct, which created a disincentive for semiconductor manufacturers to invest in the development of semiconductor chips and related software, threatened to harm competition and thus violated § 17200.

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In this case, Defendants experienced a vulnerability in their CAS and feared a resulting decline in their market share. Findings of Fact ¶¶ 14-15. Rather than simply improve their product, they engaged in unfair, anticompetitive behavior intended to hobble Plaintiffs' ability to compete in the marketplace. Defendants hacked Plaintiffs' CAS, developed by Plaintiffs at great expense and effort. Findings of Fact ¶ 6, 29-33. Defendants created a hack methodology and shared this methodology with known satellite pirates. The hack methodology was then published online, all for the purpose of gaining an unfair competitive advantage. Findings of Fact ¶¶ 19-72. Because the costs of such piracy are ultimately passed on to the consumer, in destabilizing Plaintiffs' CAS and forcing Plaintiffs to invest in costly electronic countermeasures, patches, and eventually a global card swap, Defendants created an environment that made it more difficult for Plaintiffs to compete. Findings of Fact ¶¶ 73-85.

Therefore, the Court makes the following conclusion of law:

3. By developing a hack methodology and sharing with known satellite pirates this methodology, which was published online to the general public, all for the purpose of gaining an unfair competitive advantage, Defendants engaged in an unfair business practice in violation of § 17200.

C. Plaintiffs Are Entitled To Restitution And An Injunction.

California Business and Professions Code § 17203 authorizes courts to make [S]uch orders or judgments as may be necessary . . . to prevent the use or employment by any person of any practice which constitutes unfair competition, as defined in this chapter, or as may be necessary to restore to any person . . . any money or property, which may have been acquired by means of such unfair competition.

Cal. Bus. & Prof. Code § 17203. This includes restitution and injunctions. *Id.* Restitution is cumulative to other remedies under either § 17200 itself or other laws. United States v. Traylor, 978 F.2d 1131, 1132 (9th Cir. 1992) (affirming civil

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penalties, criminal fines, and restitution); *People v. Toomey*, 157 Cal. App. 3d 1, 22-26 (1985) (affirming civil penalties and restitution).

The purpose of the restitution under § 17203 is to return to the victim the value of the money or property taken from the plaintiff or obtained by the defendant through an unfair business practice, and to penalize a defendant for past unlawful conduct and thereby deter future violations. *People v. Beaumont Inv., Ltd.* 111 Cal. App. 4th 102, 135, 3 Cal. Rptr. 3d 429, 455 (2003) (awarding tenant victims restitution in the amount of rent monies that exceeded the ordinance maximum). The concept is similar to restitution to victims of a crime pursuant to California Penal Code § 1202.4(3)(a), which provides for mandatory restitution of the full or partial value of stolen or damaged property. Cal. Pen. Code § 1202.4(3)(a).

Defendants here hacked Plaintiffs' SmartCard and splayed out its contents for all the world to see and take advantage of. Findings of Fact ¶¶ 19-72. The jury's verdict supports the Court's finding that the Defendants illegally compromised Plaintiffs' CAS. Plaintiffs invested considerable sums in developing and protecting their CAS and installing it in the homes of their customers. Findings of Fact ¶ 82. Indeed, the development and installation of a secure card costs Plaintiffs approximately \$94,638,625.10. *Id.* However, just as when a criminal takes control of a victim's property and sells it, destroys it, or otherwise depletes its value, the value of Plaintiffs' CAS was taken from them through Defendants' unfair and unlawful business practices. *See People v. Baker*, 126 Cal. App. 4th 463 (Cal. App. 5th Dist. 2005) (defendant required to pay restitution under the California Penal Code to victims of cattle theft even though the cattle was returned because the cattle had diminished in value). Accordingly, Plaintiffs seek restitution of the value of Plaintiffs' CAS at the time it was rendered ineffective by Defendants.

Restitution under § 17203 requires only that Plaintiffs have been harmed – it does not require a showing of damages. *People v. Toomey*, 157 Cal. App. 3d 1, 26, 203 Cal. Rptr. 642, 658 (1984). Indeed, because restitution is not intended to

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benefit Plaintiffs by the return of money, but instead is designed to penalize a defendant for past unlawful conduct and thereby deter future violations, the Court may award restitution even in the absence of Plaintiffs' actual damages. *Id.* The Jury's finding concerning Plaintiffs' actual damages thus not preclude this Court's awarding Plaintiffs' restitution damages: the actual damages the Jury considered were intended to "fully and fairly compensate the Plaintiffs" and were not intended to penalize Defendants' conduct and deter future violations, as is the purpose of restitution damages. *Compare* Jury Instruction, "Claim 3 Communications Act - 47 U.S.C. § 605(a) – Actual Damages," *with Toomey*, 157 Cal. App. 3d at 26.

Section 17203 also authorizes injunctive relief to enjoin anticompetitive behavior. Courts have broad power to fashion an injunctive remedy consistent with the Legislature's intent to permit courts to "enjoin ongoing wrongful business conduct in whatever context such activity might occur." *Barquis v. Merchants Collection Ass'n*, 7 C.3d 94, 111, 101 C.R. 745, 757 (1972). The Court may grant an injunction enjoining anticompetitive conduct even where the defendant is not currently engaged in the conduct, if Plaintiffs can demonstrate a reasonable probability that the anticompetitive behavior will recur. *E.W.A.P. Inc.*, 106 Cal. App. 3d at 315, 165 Cal. Rptr. at 73 (illegal conduct can be enjoined under § 17200 if it is a business practice).

Plaintiffs have established that through a scheme that spanned more than three years, Defendants developed a methodology to hack Plaintiffs' CAS, which was posted on the Internet, enabling anyone to create a pirated SmartCard and steal programming from Plaintiffs. Findings of Fact ¶¶ 19-72. Plaintiffs also established that NDS hacked and facilitated the piracy of Canal+, and its own customer, DirecTV. Findings of Fact ¶ 70. Given Defendants' prior conduct, there is a reasonable probability that Defendants will engage in this or similar behavior in the future. *Toomey*, 157 Cal. App. 3d at 1, 203 Cal. Rptr. at 642 (court found likelihood that the defendant would repeat the offenses proper where defendant

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