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19 UNITED STATES DISTRICT COURT
20 CENTRAL DISTRICT OF CALIFORNIA
21 EASTERN DIVISION

22 IN THE MATTER OF THE SEARCH
23 OF AN APPLE IPHONE SEIZED
24 DURING THE EXECUTION OF A
25 SEARCH WARRANT ON A BLACK
26 LEXUS IS300, CALIFORNIA
27 LICENSE PLATE 35KGD203

ED No. CM 16-10 (SP)

**BRIEF OF AMICI CURIAE
AVG TECHNOLOGIES, THE
COMPUTER &
COMMUNICATIONS INDUSTRY
ASSOCIATION, DATA FOUNDRY,
GOLDEN FROG, THE INTERNET
ASSOCIATION, AND THE
INTERNET INFRASTRUCTURE
COALITION IN SUPPORT OF
APPLE INC.'S MOTION TO
VACATE ORDER COMPELLING
APPLE INC. TO ASSIST AGENTS
IN SEARCH, AND OPPOSITION TO
GOVERNMENT'S MOTION TO
COMPEL ASSISTANCE**

28 Date: March 22, 2016
Time: 1:00 p.m.
Dept: 3 or 4 – 3rd Floor
Judge: Hon. Sheri Pym

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1 **INTERESTS OF AMICI CURIAE**

2 *Amici* are technology companies or entities that represent or support
3 technology companies who share a unified interest in advocating a principled
4 interpretation of the All Writs Act that protects the ability of technology companies
5 to develop and maintain secure products and services. AVG Technologies is a
6 leading provider of software services to secure devices, data and people. Data
7 Foundry is one of the first 50 ISPs in the United States, whose data centers have
8 supported thousands of enterprise companies in every industry, including high
9 performance computing, energy, financial services, healthcare and technology.
10 Golden Frog was founded to build tools that help preserve an open and secure
11 Internet experience while respecting user privacy. The Computer &
12 Communications Industry Association (CCIA) represents over 20 companies in the
13 computer, Internet, information technology, and telecommunications industries,
14 ranging in size from small entrepreneurial firms to some of the largest companies in
15 these industries. The Internet Association, representing the interests of 35 leading
16 Internet companies and their global community of users, is dedicated to advancing
17 public policy solutions that strengthen and protect Internet freedom, foster
18 innovation and economic growth, and empower users. The Internet Infrastructure
19 Coalition (i2Coalition) is the non-profit voice of companies from the Internet
20 infrastructure industry. As diverse stakeholders in the Internet, technology, and
21 security industries, *Amici* have a substantial interest in this proceeding and its
22 potential unprecedented impact.

23 **INTRODUCTION**

24 In response to the clear and present danger posed by profit-minded criminal
25 hackers, thieves and state-sponsored organizations, many American businesses
26 have implemented strong, user-controlled security to protect both their businesses
27 and their customers from harm. Apple Inc. is one such company, having encrypted
28 user data on its latest iPhone models by default, putting the decryption key in the

1 hands of the users alone, and creating technical safeguards to deter malicious actors
2 from trying to break into users’ phones. The government now seeks a court order
3 under the All Writs Act to compel Apple to create and implement new software to
4 undermine these security features, despite Congress’s having enacted a statutory
5 scheme that declined to grant the government that power. The government’s
6 interpretation of the All Writs Act, if adopted, could empower it to compel
7 numerous companies to disable security features ingrained in their products against
8 their interests, all without statutory authority. Indeed, the government
9 acknowledges that it has sought and continues to seek All Writs Act orders to
10 compel Apple in numerous other cases. This effort offends principles of separation
11 of powers and could threaten the security of technology businesses and their users.
12 *Amici* therefore support Apple’s motion to vacate this Court’s February 16, 2016
13 order compelling Apple Inc. to assist the government, as the “reasonable technical
14 assistance” that the Order requires is not reasonable at all.

15 Scores of diverse technology companies, especially business- and consumer-
16 facing Internet companies, relentlessly strive to make their customers’ most
17 sensitive information increasingly secure in the face of ever-growing threats from a
18 wide variety of malefactors. For many technology companies, the quality of the
19 security they employ is a core feature and influences whether customers will use
20 their services or purchase their products. In response to security threats and
21 consumer demand, some businesses have deliberately designed their products and
22 services with security so strong that they can never access the sensitive data their
23 customers have encrypted. Customers of these products include government
24 agencies, defense contractors, financial institutions, healthcare providers, public
25 utilities, airlines, railroads, manufacturers, and individual citizens. The government
26 asks Apple (and its employees) to undertake labor Apple is unwilling to do, for an
27 objective Apple perceives—with good reason—as harmful: to design and write new
28 software to defeat important security protections in an Apple product. By doing so,

1 the government demands that Apple deliberately compromise one of the most
2 widely relied-on products in the world.

3 The government professes that this request is an isolated request about a
4 single phone in a single investigation. But, the government does not deny that it is
5 already seeking similar orders from other courts around the country. If it prevails
6 on its sweeping interpretation of the All Writs Act here, it is almost certain to seek
7 to leverage that outcome in an effort to conscript a wide range of businesses and
8 industries to achieve its ends through means foreclosed by Congress.¹ Many such
9 efforts are likely to take place in *ex parte* proceedings, as was the case here, with no
10 advance opportunity for the affected businesses to be heard. Smaller companies
11 without the resources of Apple are more likely to quickly cave to the government’s
12 demands in those cases, choosing the burden of creating new technology that
13 undermines their products’ security over the threat of a contempt order.

14 Over the 227-year history of the All Writs Act there is no precedent for what
15 the government wants to do here—use a court’s ancillary authority to conscript a
16 private enterprise against its will to create new technology that undermines a core
17 feature of its own products and security. To the contrary, earlier this week on
18 February 29, 2016, United States Magistrate Judge Orenstein soundly rejected the
19 government’s attempt to use the All Writs Act to compel Apple to do far less than
20 what the government seeks here, finding that “the extraordinary relief [the
21 government] seeks cannot be considered ‘agreeable to the usages and principles of
22 law.’” *See In re Order Requiring Apple, Inc. to Assist in the Execution of a Search*
23 *Warrant Issued by This Court*, 15-MC-1902 (JO), 2016 WL 783565, at *7

24 _____
25 ¹ In response to questioning by the House Judiciary Committee on March 1, 2016,
26 FBI Director James Comey stated that “of course” the FBI would demand
27 assistance in unlocking devices in future cases “if the All Writs Act is available to
28 us.” United States. Cong. House. Committee on Judiciary. *Encryption Tightrope:
Balancing Americans’ Security and Privacy*, Mar. 1, 2016, 114th Cong. (available
at [http://www.c-span.org/video/?405442-1/hearing-encryption-federal-
investigations](http://www.c-span.org/video/?405442-1/hearing-encryption-federal-investigations))

1 (E.D.N.Y. Feb. 29, 2016) (the “*In re Order*”). There, the government sought
2 Apple’s assistance in unlocking an unencrypted password-protected iPhone that
3 lacked many of the security features that the iPhone 5c in this case possesses. It did
4 not require Apple to help the company defeat encryption on the device. *Id.* at *5.
5 Even then, the court held the “assistance” the government sought exceeded the
6 Court’s statutory authority under the All Writs Act and was not supported by a
7 proper balancing of discretionary factors the Supreme Court established in *United*
8 *States v. N.Y. Tel. Co.*, 434 U.S. 159 (1977). The result should be no different here.

9 BACKGROUND

10 Apple’s brief on its motion to vacate summarizes the procedural background
11 leading to the Court’s issuance of the Order, which *Amici* will not repeat. *See*
12 Apple’s Motion at 10-14. On February 16, 2016, this Court issued an order
13 compelling Apple to assist in the manner the government proposed. Order
14 Compelling Apple, Inc. to Assist Agents in Search, 5:15-mj-00451-DUTY-1, Dkt.
15 No. 19 (C.D. Cal. Feb. 16, 2016) (“Order”). The Order compels Apple to provide
16 what the government deems “reasonable technical assistance” to obtain data on an
17 encrypted device that Apple manufactured and sold, but does not possess. Order at
18 *2; *see* Government Application, 5:15-mj-00451-DUTY-1, Dkt. 18, at *2 (C.D.
19 Cal. Feb. 16, 2016) (hereinafter “Application”). To do so, the “government
20 requests that Apple be ordered to provide the FBI with a signed iPhone software
21 file, recovery bundle or other software image file (“SIF”) that can be loaded onto
22 the SUBJECT DEVICE.” Application at *6. This proposed SIF would have “three
23 important functions.” *Id.* at *7. First, this SIF would “bypass or disable the auto-
24 erase function” allowing for “multiple attempts at the passcode.” *Id.* Second, this
25 SIF would “enable the FBI to submit passcodes” electronically. *Id.* Third, the SIF
26 would remove the passcode delay function. *Id.*

1 **ARGUMENT**

2 **I. THE COURT’S ORDER IS AN IMPROPER AND UNPRECEDENTED**
3 **EXPANSION OF SCOPE OF THE ALL WRITS ACT.**

4 The government contends that its application to compel Apple to create new
5 software to defeat strong security features Apple has architected into one of its core
6 products is the type of “assistance” courts have typically authorized under the All
7 Writs Act. That is false. The government’s position is belied by both the historical
8 context in which All Writs Act was enacted and how courts have applied it since
9 the nation’s founding. For 227 years, the language of the statute, “courts. . . may
10 issue all writs necessary or appropriate in aid of their respective jurisdictions and
11 agreeable to the usages and principles of law,”² 28 U.S.C. § 1651, has been applied
12 narrowly to require companies to provide meager assistance in the execution of a
13 law enforcement order only where doing so does not undermine the company’s
14 business. It is not a fountainhead for the authorization of any government demand
15 related to an investigation, and it has never been applied to conscript a company
16 and its employees, by their compelled labor and ingenuity, to invent new
17 technologies to counteract and undermine their own products and business. As
18 Judge Orenstein’s order concluded, “the government posits a reading . . . so
19 expansive—and in particular, in such tension with the doctrine of separation of
20 powers—as to cast doubt on the AWA’s constitutionality if adopted.” *In re Order*,
21 2016 WL 783565, at *7. Judge Orenstein’s analysis applies with even greater force
22 here, where the government seeks to compel Apple to create new software that
23 undermines core security features.

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25
26
27 ² As chronicled in Judge Orenstein’s February 29, 2016 order, the text of the All
28 Writs Act has been amended only twice in succeeding centuries since its adoption,
and never in any substantive way. *See In re Order*, 2016 WL 783565, at *6.

1 **A. The Historical Context in Which the All Writs Act Was Enacted**
2 **Weighs Against the Government’s Broad Interpretation.**

3 The historical context from which the All Writs Act arose supports a limited
4 reading of orders that are “agreeable to the usages and principles of law.” The All
5 Writs Act was enacted on September 23, 1789 as part of the Judiciary Act in the
6 First Congress of the new United States.³ The next day, Congress approved the Bill
7 of Rights, including the Fourth Amendment, which was “most immediately the
8 product of contemporary revulsion against a regime of writs of assistance.”
9 *Stanford v. Texas*, 379 U.S. 476, 482 (1965).

10 A writ of assistance, more commonly called a “writ of aid,” was a written
11 order issued by a Court, authorizing wide-ranging searches of anyone, anywhere,
12 and anytime without their being suspected of a crime. Writs of assistance “could be
13 used to enlist the aid of any officer of the crown in conducting a search of a
14 dwelling, shop or warehouse for smuggled goods.”⁴ These “hated writs” spurred
15 colonists towards revolution⁵ and directly motivated the creation of the Fourth
16 Amendment.⁶ Against this backdrop, Judge Orenstein correctly concluded that
17 interpreting the All Writs Act as authorizing orders conscripting private citizens
18 into the service of the government in the interest of providing “assistance” is not
19 “agreeable to the usages and principles of law.”⁷

20 ³ Federal Judiciary Act of 1789, ch. 20, 1 Stat. 73, 81-82.

21 ⁴ James M. Farrell, “The Child Independence is Born: James Otis and Writs of
22 Assistance,” in *Rhetoric, Independence and Nationhood*, ed. Stephen E. Lucas, in
23 Vol. 2 of *A Rhetorical History of the United States: Significant Moments in*
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forthcoming).

24 ⁵ *Stanford v. Texas*, 379 U.S. 476, 484 n.13.

25 ⁶ See, e.g., *Frank v. Maryland*, 359 U.S. 360, 364 (1959); *Boyd v. United States*,
116 U.S. 616, 625 (1886). See also William John Cuddihy, *The Fourth*
26 *Amendment: Origins And Original Meaning* (2009).

27 ⁷ Indeed, despite the commercial availability of unpickable locks during the first
28 half-century following the enactment of the All Writs Act, there is no record in the
case law of courts ordering the manufacturers of those devices to defeat their own
locks in aid of law enforcement. See, e.g., Joseph Bramah, “A Dissertation on the

1 **B. Courts Have Not Applied the All Writs Act to Compel Companies**
2 **to Create New Technology, Much Less Where It Undermines**
3 **Fundamental Features of Their Businesses or Products.**

4 Relying principally on *New York Telephone*, the government asserts that its
5 request is consistent with the historical use of the All Writs Act, describing the *ex*
6 *parte* order as requiring Apple to provide only “reasonable technical assistance.”⁸
7 *See* Order ¶ 1. But the government’s request is both at odds with the facts and
8 holding of *New York Telephone* and goes far beyond the historical kinds of
9 “assistance” courts have ordered persons and businesses to provide under the All
10 Writs Act. Courts have not applied the All Writs Act to require a business to invent
11 new technology that did not previously exist and that the business would not
12 otherwise create. And courts have certainly never ordered the creation of new
13 technology that harms the privacy and security of a business and its customers.

14 In *New York Telephone*, the Supreme Court upheld a district court order
15 directing a phone company to make two of its unleased phone lines available to
16 assist the government’s installation of a pen register on the line of a suspected
17 bookmaker. 434 U.S. at 162-63. In evaluating the order, the Court applied a three-
18 factor inquiry: (1) whether the company was not “so far removed from the
19 underlying controversy that its assistance could not be permissibly compelled”; (2)
20 whether the requested assistance would place an undue burden on a third party; and
21 (3) whether the requested assistance is necessary to carry out the court’s order. *Id.*
22 at 174. Applying those factors, the Court held that the order was appropriate
23 because: (1) the suspect was using the phone company’s phone lines to facilitate an
24 ongoing crime; (2) the company conceded that the effort involved in providing

25 Construction of Locks,” in *Engineers* 150 (DK Press, 2012); Marc Weber Tobias,
26 *Locks, Safes, and Security* 19 (Charles C Thomas Pub Ltd, 2nd ed. 2000).; Graham
27 Pulford, *High-Security Mechanical Locks: An Encyclopedic Reference* 558,
28 (Butterworth-Heinemann, 1st ed. 2007).

29 ⁸ *See also*, Application; *In re Order Requiring Apple, Inc. to Assist in the Execution*
30 *of a Search Warrant Issued by this Court*, No. 1:15-mc-01902-JO, 2015 WL
31 5920207 (E.D.N.Y. Oct. 9, 2015).

1 access to two unleased lines was “meager”; and (3) the government had no other
2 means of installing a pen register without alerting the suspect. *Id.* at 174-75.

3 But the Court also considered another factor critical to the outcome of that
4 case and equally critical here: whether the requested assistance was “offensive” to
5 the company’s business—that is, whether the business had a “substantial interest in
6 not providing assistance.” *Id.* at 174. In *New York Telephone*, providing the two
7 unleased phone lines was not “offensive” to the phone company’s business. It was
8 a highly regulated public utility and regularly used pen registers for its own
9 business purposes, including for customer billing and fraud detection. Whether that
10 factor is part of the Court’s undue burden analysis, as Judge Orenstein considered
11 it, or whether it is a separate factor unto itself, it must be considered and is
12 determinative here, as it was in *In re Order, Inc.*, 2016 WL 783565, at *21
13 (concluding that “the assistance the government seeks here . . . is, at least now,
14 plainly ‘offensive’ to Apple) (quoting *N.Y. Tel. Co.*, 434 U.S. at 174).

15 **1. Compelling a Company to Create Technology That**
16 **Undermines its Product Security Is “Offensive” and Against**
17 **the Substantial Interests of That Company**

18 The government argues that Apple’s resistance to complying with the Order
19 is a “marketing strategy” and that forcing the company to defeat the protections it
20 built into its phones does not amount to an undue burden on a substantial business
21 interest. *See* Motion to Compel (Dkt. No. 1) at 17-18. This argument incorrectly
22 describes the nature and gravity of Apple’s interest—and the interest of other
23 technology companies that build security into their products and services—in
24 designing and selling secure products. It is also wrong as a matter of law.

25 American citizens, companies and the government face a daunting barrage of
26 cyberattacks from diverse adversaries, including state-sponsored groups, organized
27 hacking rings, and opportunistic individuals. Motion at 1. The consequences of
28 suffering a significant data breach are severe for the affected customers and the
businesses that are attacked. Companies, on average, face per capita costs of \$217

1 for each person whose personally identifiable information has been compromised
2 by a breach, and the costs rise each year. Ponemon Institute, 2015 Cost of Data
3 Breach Study: Global Analysis, Symantec and Larry Ponemon (May 30, 2015)
4 (available at <http://www-03.ibm.com/security/data-breach/>). Worse, the steady
5 drumbeat of reports of data breaches erodes consumer trust in the Internet economy
6 and its technologies, threatening to stifle both growth and innovation.

7 To defend both their businesses and their customers' privacy and security
8 against these threats, businesses have a substantial interest in building and
9 maintaining strong security over their networks and the sensitive data their
10 customers store on their products and services. Indeed, many businesses have
11 responded to these risks and guidance from the government by investing heavily in
12 people, equipment and software to build increasingly complex security into their
13 businesses. Globally, corporate investment in improving information security has
14 risen from an estimated \$65.5 billion in 2013 to over \$75 billion in 2015, and is
15 projected to grow to over \$90 billion in 2017. Gartner, Inc., "Forecast Analysis:
16 Information Security, Worldwide, 2Q15 Update" (September 2015). The encryption
17 Apple has built into its iOS devices is one prominent example of these efforts.

18 Technology companies therefore have a compelling interest in employing
19 strong security measures to protect their customers' data from unauthorized access
20 and misuse, including encryption, cryptographically-signed software updates,⁹
21 password hashing and salting,¹⁰ password lockouts,¹¹ and multi-factor

22 ⁹ Cryptographically signing software updates is a method used by Apple and other
23 device manufacturers and software developers that prevents operating system
24 software from being installed on a device unless it contains an encryption key that
only the manufacturer or developer holds.

25 ¹⁰ Passwords are "hashed" using an established algorithm to change them from
26 human-readable, so-called "plaintext" into unique encrypted strings of text like
27 "5e884898da28047151d0e56f8dc6292773603d0d6aabbdd62a11ef721d1542d8"
28 (the sha-256 hash for 'password'). To make them more difficult to crack, small
amounts of additional information called "salt" can be added. Therefore, even if
someone attempted to brute force the encryption, or knew the hashing algorithm
used, the decrypted information would not match the original plaintext (password).

1 authentication,¹² to name a few. Being compelled to invent vulnerabilities to
2 undermine these measures is offensive to businesses, in ways that a telephone
3 company allowing law enforcement to use a tool that the company itself regularly
4 uses to combat fraud is not. The Court should vacate the Order on this basis alone.

5 Indeed, various arms of the Executive Branch have recognized the threats
6 businesses and their customers face from cybercrime, and have encouraged, if not
7 pleaded with, businesses to fortify their security, both to protect consumers’
8 sensitive personal information from bad actors and to ensure confidence in an
9 increasingly online economy. Three years ago, the President issued an Executive
10 Order finding that cyber threats to critical infrastructure represent one of the most
11 serious national and economic security challenges the nation must confront. Exec.
12 Order No. 13636, 78 Fed. Reg. 11739 (Feb. 12, 2013). The White House’s National
13 Security Council has also spotlighted the threats cybercrime poses to the Internet
14 economy, warning that “[p]ervasive criminal activity in cyberspace not only
15 directly affects its victims, but can imperil citizens’ and businesses’ faith in these
16 digital systems, which are critical to our society and economy.” President Obama,
17 “Strategy to Combat Transnational Organized Crime at *8 (July 2011) (available at
18 https://www.whitehouse.gov/sites/default/files/Strategy_to_Combat_Transnational
19 [_Organized_Crime_July_2011.pdf](https://www.whitehouse.gov/sites/default/files/Strategy_to_Combat_Transnational)).

20 The FBI also acknowledges the significance of the threats that cybercrime
21 poses to American businesses, individuals, and the economy as a whole. In
22 February 2012, the FBI’s outgoing Executive Assistant Director overseeing cyber
23 investigations worried: “I don’t see how we ever come out of this *without changes*
24 *in technology* or changes in behavior, because with the status quo, it’s an

25
26 ¹¹ A password lockout either temporarily or permanently prevents continued
guessing of a password after a set number of failures.

27 ¹² Multi-factor authentication is a method of authenticating an individual based on
28 multiple pieces of information (e.g., a remembered password plus a code sent to a
known mobile phone number or a number randomly generated).

1 unsustainable model. Unsustainable in that you never get ahead, never become
2 secure, never have a reasonable expectation of privacy or security.” Devlin Barrett,
3 “U.S. Outgunned in Hacker War,” Wall Street Journal (Mar. 28, 2012). Despite
4 that warning nearly four years ago, cyberattacks have increased relentlessly in
5 number and scope, as has the cost to companies of responding to them. Just last
6 week, Director Comey told Congress that the FBI continues “to see an increase in
7 the scale and scope of reporting on malicious cyber activity that can be measured
8 by the amount of corporate data stolen or deleted, personally identifiable
9 information compromised, or remediation costs incurred by U.S. victims.”
10 Statement Before the House Appropriations Comm., Subcomm. on Commerce,
11 Justice, Science, and Related Agencies, (Feb. 25, 2016) (available at
12 <https://www.fbi.gov/news/testimony/fbi-budget-request-for-fiscal-year-2017>).¹³

13 Using both the carrot of education and the stick of civil enforcement actions,
14 the Federal Trade Commission has also encouraged companies to build strong
15 security features into their products and systems from the outset. In its guidance to
16 businesses, the FTC has recommended that companies incorporate the principle of
17 “Privacy by Design” into their practices, of which data security is a necessary pillar.
18 Federal Trade Commission, “Protecting Consumer Privacy in an Era of Rapid
19 Change” at *22 (March 2012). It has also published data security guides for
20 business encouraging companies to encrypt sensitive data, both while it is in transit
21 and at rest. Federal Trade Commission, “Start with Security: A Guide for
22 Business” at *6 (June 2015). The FTC has even encouraged companies to

23 ¹³ The FBI’s Cyber Division routinely notifies businesses of cybersecurity threats,
24 and has identified cyberattacks by groups affiliated with or sympathetic to terrorist
25 groups. See, e.g., Federal Bureau of Investigation Cyber Division Private Industry
26 Alert, “Threat of Cyberterrorist and Hacktivist Activity in Response to US Military
27 Actions in the Middle East,” Sept. 24, 2014 (available at
28 <http://s3.documentcloud.org/documents/1306420/fbi-private-industry-notification-threat-of.pdf>); see also “FBI Warns of ISIS-Inspired Cyber Attacks on 9/11 Anniversary,” Sept. 11, 2015 (available at <http://abcnews.go.com/US/fbi-warns-isis-inspired-cyber-attacks-911-anniversary/story?id=33684413>).

1 “[c]onsider adding an ‘auto-destroy’ function so that data on a computer that is
2 reported stolen will be destroyed when the thief uses it to try to get on the Internet,”
3 a feature remarkably similar to that which is before the Court here. *Id.* at 13. Above
4 all, the FTC has recommended that companies continue to innovate and deploy
5 technologies to protect their customers’ sensitive data “such as encryption and
6 anonymization tools.” FTC, “Protecting Consumer Privacy” at *31. The FTC has
7 also brought several civil enforcement actions against companies alleging their use
8 of weak data security, including proprietary or incorrectly configured encryption,
9 was an unfair or deceptive business practice. *See In the Matter of Henry Schein*
10 *Prac. Sols., Inc., A Corp.*, 142-3161, 2016 WL 160609 (F.T.C. Jan. 5, 2016);
11 *Federal Trade Comm’n v. Wyndham Worldwide Corp.*, 799 F.3d 236 (3d Cir.
12 2015); *In the Matter of Fandango, LLC, A L.L.C.*, 2015-1 Trade Cas. (CCH) ¶
13 17098 (F.T.C. Aug. 13, 2014); *In the Matter of Credit Karma, Inc., A Corp.*, 2015-1
14 Trade Cas. (CCH) ¶ 17099 (F.T.C. Aug. 13, 2014).

15 Thus, there can be no question that businesses that have made design choices
16 to build security into their products and services have a substantial interest in those
17 services that is not mere “marketing strategy.”

18 **2. An Order to Invent and Create New Technology to Assist**
19 **Law Enforcement Is Unduly Burdensome, Particularly on**
20 **Small and Nascent Technology Companies.**

21 An order compelling a business to build technology to undermine strong
22 security features is unduly burdensome by comparison to the minimal efforts and
23 business impact that have previously been required of businesses under the All
24 Writs Act. Indeed, in *New York Telephone*, the Court referred to the requested
25 assistance as “meager.” *Id.* at 174. This case is vastly different. Apple is being
26 forced to invent and implement a new technology that doesn’t yet exist, and that it
27 would likely be forced to implement time and time again. As Apple explained in its
28 Motion and accompanying declarations, acceding to the government’s demand
would require developing new secure facilities, hiring additional personnel, and

1 diverting resources from developing new products, all in the name of weakening
2 security. Apple Inc.’s Motion to Vacate, 5:15-mj-00451-DUTY-1, at *13 (C.D.
3 Cal. 2016) (hereinafter “Motion to Vacate”).

4 There is no parallel to this type of burden in the All Writs Act case law.
5 Instead, “assistance” has been limited to acts that companies conduct in the normal
6 course of their business and that require minimal uses of company resources to
7 provide access to existing records or facilities, including:

- 8 • ***Producing existing business records, often for the purpose of***
9 ***tracking fugitives***; see, e.g., *United States v. Hall*, 583 F. Supp. 717,
10 721 (E.D. Va. 1984) (ordering bank to produce credit card transaction
11 records, that could be generated by “punching a few buttons”); *United*
12 *States v. Doe*, 537 F. Supp. 838, 840 (E.D.N.Y. 1982) (ordering a
13 phone company to produce telephone toll records); *United States v. X*,
14 601 F. Supp. 1039, 1042 (D. Md. 1984) (same);
- 15 • ***Freezing assets and accounts to prevent the frustration of forfeiture***
16 ***and restitution orders***; see, e.g., *United States v. Yielding*, 657 F.3d
17 722 (8th Cir. 2011) (order preventing a restitution debtor from
18 frustrating collection of the restitution debt); *United States. v.*
19 *Simmons*, 07-CR-30, 2008 WL 336824, at *1 (E.D. Wis. Feb. 5, 2008)
20 (temporary restraining order to freeze defendant’s checking account);
21 *United States v. Runnells*, 335 F. Supp. 2d 724, 725–26 (E.D. Va.
22 2004) (restraining defendants from diverting funds to avoid paying
23 restitution);
- 24 • ***Turning over security camera footage***; see, e.g., *In re Application of*
25 *United States for an Order Directing X to Provide Access to*
26 *Videotapes*, No. 03-89, 2003 WL 22053105, at *3 (D. Md. Aug. 22,
27 2003) (ordering a landlord to provide access to security camera
28 videotapes);

- 1 • **Ordering a defendant to reveal a password**; *United States v. Fricosu*,
2 841 F. Supp. 2d 1232, 1238 (D. Colo. 2012) (order requiring defendant
3 to provide password to encrypted computer seized pursuant to a search
4 warrant); and
- 5 • **Providing law enforcement access to existing and available**
6 **telecommunications equipment to carry out wiretaps and pen/traps**
7 **orders**; *See, e.g., N.Y. Tel. Co.*, 434 U.S. at 172; *In re Application*, 610
8 F.2d 1148, 1155 (3d Cir. 1979); *Application of U.S. for an Order*
9 *Authorizing an In-Progress Trace of Wire Commc'ns over Tel.*
10 *Facilities*, 616 F.2d 1122, 1132 (9th Cir. 1980); *In re Application of*
11 *U.S. for an Order Directing a Provider of Commc'n Servs. to Provide*
12 *Tech. Assistance to Agents of the U.S. Drug Enforcement Admin.*, No.
13 15-1242, 2015 WL 5233551, at *5 (D.P.R. Aug. 27, 2015).

14 None of these cases imposed the same burden as the order requested by the
15 government here would. Phone companies can easily implement trap and trace
16 devices, and they maintain toll records for billing purposes. Credit card companies
17 have customer records in their files for billing purposes. A landlord who already
18 records his apartment common areas can provide access to those recordings.
19 Tracing a call through an electronic device has no discernable burden and is
20 effectively the same as a manual trace. None of these cases involved anything more
21 than what a business already did in the normal scope of its business. However,
22 compelling a company to invent a new technology by writing and testing software
23 (a process that is creative, laborious, and expert) that does not yet exist is a
24 distinction with a major difference. *See In re Order*, 2016 WL 783565, at *21
25 (finding that “bypassing a security measure that Apple affirmatively markets to its
26 customers – is not something that Apple would normally do in the conduct of its
27 own business” was unduly burdensome).

28 If giving the government the power to compel companies to invent and create

1 technology to suit the government’s needs is burdensome to one of the world’s
2 most valuable companies, then it would be even more burdensome to the
3 constellation of nascent and small technology and Internet companies that are
4 driving the country’s innovation economy. Faced with the potential for repeated
5 demands for resources to weaken the security of their products, some companies
6 may decide to close their doors, and innovators may choose not to launch new,
7 innovative services. This concern is not an idle one; there is recent precedent of
8 small, secure email service providers voluntarily shuttering their businesses in the
9 face of court orders to provide the government with encryption keys that the
10 *companies* controlled.¹⁴ Worse, other companies may decide that leaving their
11 services permanently insecure in order to ease their burden of complying with court
12 orders is more economically viable. That result would lead to a persistence of the
13 “status quo” of insecurity the FBI’s Executive Assistant Director for Cyber worried
14 about four years ago. *See* WSJ, “U.S. Outgunned in Hacker War.”

15 The burden that would fall on small companies that lack the sizeable legal,
16 technical, financial and human resources of Apple could be especially harsh,
17 particularly if faced with numerous court orders. Unlike Apple, most information
18 technology businesses are relatively small and operate on the edge of profitability
19 in an intensely competitive market. The “assistance” sought here (which the
20 government will surely repeat and expand in the future if allowed by this Court)
21 could be detrimental to any small business faced with numerous demands to reverse
22 or reopen the security measures the companies devoted substantial resources to
23 building into their products. Thus, the government’s position, if adopted, would
24 present small companies with two unenviable choices: (1) build backdoors into

25 _____
26 ¹⁴ *See* Ladar Levison, “Secrets, lies and Snowden’s email: why I was forced to shut
27 down Lavabit,” *The Guardian*, May 20, 2014 (available at
28 <http://www.theguardian.com/commentisfree/2014/may/20/why-did-lavabit-shut-down-snowden-email>); *USA v. In Re: Information Associated with an Email Account at Lavabit.com*, 1:13 EC297 (E.D. Va. 2013).

1 their products and services at the outset so that they can readily comply with law
2 enforcement demands for user data, but remain exposed to malicious attacks and
3 regulatory enforcement actions; or (2) build and maintain strong security, but incur
4 the substantial costs of being compelled to weaken that security repeatedly to
5 comply with law enforcement demands. Congress, which is accountable to the
6 electorate, is better positioned to weigh the competing interests in play here and
7 should be the branch that makes the policy decision whether, and to what extent,
8 law enforcement’s interests justify companies and their customers to bear those
9 consequences, not this Court via an *ex parte* application under the All Writs Act.

10 **3. The Burden the Government’s Interpretation of the All**
11 **Writs Act Would Impose on Businesses is Not Confined to**
12 **Compliance With a Single Order.**

12 The government argues that the Order is not a burden to Apple, because its
13 request is confined to a single device and because the owner of the device in
14 question—the shooter’s employer—consented to the government’s search. *See*
15 *Motion to Compel* (Dkt. No. 1) at 17-18. These arguments are both straw men. As
16 set forth above and in Apple’s motion, designing new features to undermine the
17 security of *one* device, necessarily undermines the security of *all* Apple devices,
18 especially in light of the fact that the government has sought, and will almost
19 certainly continue to seek, similar orders time and time again. Judge Orenstein
20 succinctly dismantled the government’s identical argument:

21 The Application before this court is by no means singular: the
22 government has to date successfully invoked the AWA to secure
23 Apple's compelled assistance in bypassing the passcode security of
24 Apple devices at least 70 times in the past; it has pending litigation in
25 a dozen more cases in which Apple has not yet been forced to provide
26 such assistance; and in its most recent use of the statute it goes so far
27 as to contend that a court – without any legislative authority other than
28 the AWA – can require Apple to create a brand new product that

1 impairs the utility of the products it is in the business of selling. It is
2 thus clear that the government is relying on the AWA as a source of
3 authority that is legislative in every meaningful way: something that
4 can be cited as a basis for getting the relief it seeks in case after case
5 without any need for adjudication of the particular circumstances of
6 an individual case

7 *In re Order*, 2016 WL 783565, at *15. And there is no reason to doubt that, if this
8 Court adopts the government’s expansive view of the All Writs Act here, the
9 government will attempt to wield that authority beyond Apple.

10 **II. CALEA LIMITS THE APPLICATION OF THE ALL WRITS ACT TO**
11 **COMPEL ASSISTANCE IN BREAKING USER-CONTROLLED**
12 **ENCRYPTION**

13 Courts cannot use the All Writs Act to grant the government powers that
14 Congress has considered and declined to give. The All Writs Act is a limited tool
15 granting courts *ancillary* authority; it does not create new authority where none
16 existed. *See Pa. Bureau of Corr. v. U.S. Marshals Serv.*, 474 U.S. 34, 42 n.7 (1985)
17 (the All Writs Act may be used “to fill statutory interstices.”). As one court has
18 observed, the All Writs Act is not “a mechanism for the judiciary to give [the
19 government] the investigative tools that Congress has not.” *In re Application of the*
20 *United States for an Order Authorizing the Use of a Pen Register*, 396 F. Supp. 2d
21 294, 325 (E.D.N.Y. 2005). Where a court issues an order “that accomplishes
22 something Congress has considered but declined to adopt – albeit without explicitly
23 or implicitly prohibiting it” that order is not agreeable to the “usages and principles
24 of law.” *In re Order*, 2016 WL 783565, at *9.

25 Congress has already declined to grant law enforcement the power it seeks
26 here. Through the legislative framework Congress has erected in the
27 Communications Assistance for Law Enforcement Act (CALEA), P.L. 103-414, 47
28 U.S.C. § 1001, *et seq.* and the Stored Communications Act, Congress has never
 given law enforcement the authority to obtain what it seeks by way of court order

1 here. Therefore, as Judge Orenstein held, “what the government seeks here is to
2 have the court give it authority that Congress chose not to confer.” *In re Order*,
3 2016 WL 783565, at *16 (internal quotation and citation omitted). Under
4 principles of separation of powers, the Court must decline to do so. *Id.* at *16.

5 **A. CALEA Imposes Strict Limits on the Government’s Ability to**
6 **Compel Access to Encrypted Communications or to Command**
7 **Particular Technology Designs.**

8 When Congress enacted CALEA, it required a narrowly defined set of
9 “telecommunications carrier[s]” to be able to assist law enforcement’s ability to
10 intercept voice and electronic communications upon a court order, subject to
11 important limitations discussed below. 47 U.S.C. § 1001(8). In the original
12 enactment, Congress defined telecommunications carriers to mean “common
13 carrier[s],” principally telecommunications service providers connected to the
14 publicly switched telephone network (“PSTN”), including wireline services and
15 commercial mobile services. *Id.* Through its statutory rule-making authority, 47
16 U.S.C. § 1001(8)(B)(ii), the Federal Communications Commission later included
17 broadband Internet service providers and Voice over IP phone services that connect
18 to the PSTN in the definition of “telecommunications carriers.”

19 Importantly, in the interest of not limiting technological advancement and
20 innovation, Congress expressly *excluded* a separate class of Internet-based
21 communications services, known as “information services,” from the definition of
22 “telecommunications carriers.” 47 U.S.C. § 1001(8)(C)(i). An information service
23 offers:

24 a capability for generating, acquiring, storing, transforming, processing,
25 retrieving, utilizing, or making available information via
26 telecommunications; and

27 (B) includes—

28 (i) a service that permits a customer to retrieve stored information
from, or file information for storage in, information storage

- 1 facilities;
- 2 (ii) electronic publishing; and
- 3 (iii) electronic messaging services

4 47 U.S.C. § 1001. This definition encompasses most of the Internet-based services
5 used by both consumers and businesses for communication, productivity and
6 entertainment, including cloud-based storage like Apple’s iCloud service, social
7 networks and chat messaging applications. *See In re Order.*, 2016 WL 783565, at
8 *11 (“CALEA thus prescribes for telecommunications carriers certain obligations
9 with respect to law enforcement investigations that it does not impose on a category
10 of other entities—described as “information service providers”—that easily
11 encompasses Apple.”)

12 Congress further excluded information services from the obligations imposed
13 by CALEA on telecommunications services to facilitate interceptions of their users’
14 communications. 47 U.S.C. § 1002(b)(2)(a). These exclusions were the result of
15 Congress’ balancing the legitimate needs of law enforcement against privacy
16 concerns that could inhibit the growth of the Internet economy. *See, e.g.*, H.R. Rep.
17 No. 103-827, at 18 (1994), reprinted in 1994 U.S.C.C.A.N. 3489, 3498 (“It is also
18 important from a privacy standpoint to recognize that the scope of the legislation
19 has been greatly narrowed. . . . [E]xcluded from coverage are all information
20 services, such as Internet service providers or services such as Prodigy and
21 America-On-Line.”). As Judge Orenstein concluded, “CALEA does not compel a
22 private company such as Apple to provide the kind of assistance the government
23 seeks here” does not constitute silence on the matter, but “reflects a legislative
24 choice.” *In re Order*, 2016 WL 783565, at *10.

25 Congress further balanced privacy and security interests with the law
26 enforcement needs by including two key exceptions to the obligations of
27 telecommunications companies to facilitate interceptions of user communications.
28 First, the statute “*does not authorize* any law enforcement agency or officer” to

1 require a provider of wire or electronic communications services or any
2 manufacturer of telecommunications equipment to adopt “any specific design of
3 equipment, facilities, services, features, or system configurations.” 47 U.S.C.
4 § 1002(b)(1)(A) (emphasis added). Nor does it prohibit any such service or
5 manufacturer from adopting any “equipment, facility, service, or feature.” 47
6 U.S.C. § 1002(b)(1)(B). Second, Congress provided that a “telecommunications
7 carrier shall not be responsible for decrypting, *or ensuring the government’s ability*
8 *to decrypt*, any communication encrypted by a subscriber or customer, unless the
9 encryption was provided by the carrier and the carrier possesses the information
10 necessary to decrypt the communication.” 47 U.S.C. § 1002(b)(3) (emphasis
11 added). Read together, Congress declared that electronic communications service
12 providers and telecommunications equipment manufacturers may build strong,
13 user-controlled encryption into their services, and that law enforcement cannot
14 compel those providers to assist or ensure the government’s ability to decrypt those
15 communications.¹⁵

16 As Judge Orenstein recognized, CALEA does not exist in isolation.
17 Congress has also legislated the procedures by which the government can compel
18 providers of electronic communications services and remote computing services to
19 produce the content of their subscribers’ stored communications, when it enacted
20 the Stored Communications Act, 18 U.S.C. § 2701, et seq. (the “SCA”) in 1986 –
21 eight years before it enacted CALEA. The SCA defines the types of user data the

22
23 ¹⁵ Congress decided that manufacturers of “telecommunications equipment” should
24 have some CALEA compliance obligations, but that those obligations were limited
25 by 47 U.S.C. § 1002(b)(1)(A). Congress also chose to *not* impose *any* burdens on
26 other manufacturers of customer-owned devices that are not “telecommunications
27 equipment.” In particular, Congress consciously chose *not* to impose any
28 regulation on or require assistance from manufacturers of end-user owned devices,
which is why similar protection against forced decryption was not extended to them
as part of the package of regulatory burdens and benefits applied to
telecommunications service providers and telecommunications equipment
manufacturers. See 47 U.S.C. §1005(b) and 1002(b)(2)(B).

1 government may access with a search warrant, court order or subpoena. *See* 18
2 U.S.C. § 2703. Although the law is not a model of clarity, one thing is clear:
3 nothing in the statute requires providers of electronic communications and remote
4 computing services to help the government decrypt encrypted communications.
5 Nor does it prohibit providers from allowing their users to encrypt their data with
6 user-controlled keys.

7 Congress could have drafted CALEA to require information services to assist
8 law enforcement in complying with electronic intercept orders, but it chose to do
9 the opposite. Congress could have drafted the statute to *prohibit*
10 telecommunications carriers and information services from allowing end users to
11 have exclusive control over decryption keys for communications on their respective
12 networks, but it did not. To the contrary, Congress expressly *allowed*
13 telecommunications carriers to offer their customers user-controlled encryption,
14 without any obligation to assist the government’s efforts to decrypt those
15 communications. Congress similarly could have drafted CALEA’s assistance
16 requirements to apply to stored data, rather than only “data in motion,” but it did
17 not. Congress could have written or amended the SCA to require providers of
18 electronic communications services and remote computing services to help the
19 government decrypt users’ communications, but it did not.¹⁶ And in the 22 years
20 following the enactment of CALEA, Congress has declined to abandon any of these
21 restrictions, despite the country having faced a devastating terrorist attack, two
22 wars, and the FBI’s stated concerns to Congress about “going dark”—losing access
23 to investigative information as a result of encryption. *See* U.S. Senate, Select
24 Comm. on Intelligence, *Counterterrorism, Counterintelligence, and the Challenges*
25 *of ‘Going Dark.’ July 8, 2015*. 114th Cong. (testimony of FBI Director James
26 Comey). The Court should not do here what Congress has declined to do.

27 ¹⁶ Whether such provisions in CALEA or the SCA would have passed
28 constitutional muster or would have been signed by the President are separate
matters.

1 **B. The Government’s Attempt to Distinguish CALEA Would Create**
2 **an Exception to CALEA That Would Swallow the Rule.**

3 In its brief on its motion to compel Apple to comply with the Order (Dkt. No.
4 1), the government attempts to downplay the significance of CALEA, arguing that
5 the relevance of the statute is limited to orders for “real-time interceptions and call-
6 identifying information (data ‘in-motion’)” while this case involves “data ‘at-rest.’”
7 Motion to Compel at 22-23. But the government’s logic fails. As discussed above,
8 Congress *has* enacted legislation concerning government access to data “at rest”
9 with electronic communications and remote computing services. *See* 18 U.S.C.
10 § 2703. As Judge Orenstein pointed out, to focus on the “distinction between data
11 ‘at rest’ and data ‘in motion’” here “ultimately misses the point” because “[e]ven if
12 Congress did not in any way regulate data ‘at rest’ in CALEA, it plainly could, and
13 did, enact such legislation elsewhere.” *In re Order*, 2016 WL 783565, at *11
14 (citing as an example 18 U.S.C. § 2703(f)(1)).

15 The government’s analogy to *New York Telephone’s* authorization of the use
16 of the All Writs Act to compel a company to assist with the installation of a pen
17 register is entirely backwards. There, Congress had enacted Title III, authorizing
18 the use of wiretaps to intercept the content of communications, but had not yet
19 enacted legislation expressly authorizing the real-time collection of less sensitive
20 dialing information that is captured by a pen register. In finding that the order in
21 that case was “not only consistent with the [All Writs] Act but also with more
22 recent congressional actions,” the Court reasoned that “it would be remarkable if
23 Congress thought it beyond the power of the federal courts to exercise, where
24 required, a discretionary authority to order telephone companies to assist in the
25 installation and operation of pen registers, which accomplish a far lesser invasion of
26 privacy” than the interception of call content. *N.Y. Tel. Co.*, 434 U.S. at 177. The
27 converse is true here. Compelling a company to help the government break a user’s
28 encrypted data—a power Congress expressly withheld from the government in

1 CALEA—is a far greater invasion of privacy than what Congress has authorized.

2 The government’s expansive interpretation of the All Writs Act has
3 dangerous implications. By its rationale, it could require companies that provide
4 software for Internet-connected devices—also known as the “Internet of Things”—
5 to create and cryptographically sign software “updates” to deploy to those devices
6 to “assist” law enforcement’s needs, whether by storing and periodically uploading
7 data to law enforcement or by identifying a user’s location. Or the government
8 could force anti-malware vendors to ignore or even distribute malicious code,
9 crippling the security the software is meant to provide, and irredeemably damaging
10 trust in the vendor. Under the government’s reading of the All Writs Act, this
11 would be permissible, because the government would not be intercepting content
12 “in motion.” The potential impact to companies doing business in America could
13 be substantial. Whether such an expansion of the government’s surveillance
14 powers is wise should be addressed by Congress, not the courts. *See In re Order*,
15 2016 WL 783565, at n. 26 (“[T]he government’s theory that a licensing agreement
16 allows it to compel the manufacturers of [Internet of Things] products to help it
17 surveil the products’ users will result in a virtually limitless expansion of the
18 government’s legal authority to surreptitiously intrude on personal privacy.”).

19 **III. THE *EX PARTE* NATURE OF THESE PROCEEDINGS IS**
20 **IMPROPER AND IMPLICATES THE DUE PROCESS RIGHTS OF**
21 **COMPANIES BEING COMPELLED UNDER THE ALL WRITS ACT.**

22 Compounding the host of substantive issues with the government’s
23 application is the troubling process by which the Court issued its Order, which
24 compelled Apple to comply without an opportunity to be heard. The government
25 applied for and obtained the Order all in the course of one day. *See Application*;
26 Order (both filed February 16, 2016). Apple received no notice and had no
27 opportunity to be heard on the application prior to the Order issuing. Motion at 11,
28 n. 22. But there was no need for the government to seek (nor for the Court to issue)
an Order unprecedented in scope and nature using an *ex parte* procedure. This

1 approach raises serious concerns, both about due process and about the significant
2 burden on third parties forced to respond quickly to such orders in the future.

3 Although the Court has now provided Apple an opportunity to be heard, that
4 opportunity came only after the issuance of the Order, giving Apple only days to
5 attempt to comply with or seek relief from the Order. In contrast, Judge Orenstein
6 declined to rule *ex parte* on an even less burdensome application, finding Apple's
7 input to be an "important missing piece of the analysis" and affording Apple the
8 chance to respond to the application *prior* to ruling on the application. *In re Order*
9 *Requiring Apple, Inc. to Assist in the Execution of a Search Warrant Issued by this*
10 *Court*, No. 15-mc-01902, 2015 WL 5920207, at *7 (E.D.N.Y. Oct. 9, 2015). Now,
11 after benefitting from briefing and argument, Judge Orenstein has denied the
12 government's motion. *In re Order*, 2016 WL 783565, at *1.

13 While, in exigent circumstances, a party must occasionally resort to *ex parte*
14 proceedings, those situations are the exception, not the rule. *See United States v.*
15 *Thompson*, 827 F.2d 1254, 1255 (9th Cir. 1987). Here, the government's desire to
16 obtain information from the iPhone should not have trumped affording Apple the
17 opportunity to be heard prior to a ruling. The phone's user was deceased, and in
18 light of the widespread media attention given to the horrifying incidents of
19 December 2, 2015, the government's investigation was not a secret. There was also
20 no risk Apple would abscond with, destroy, or otherwise make unavailable the
21 information the government seeks.

22 Further, because *ex parte* proceedings happen so quickly, they are likely to
23 impose greater burdens on smaller companies that lack the resources to respond
24 effectively to the demands such procedures entail, putting their rights at greater
25 risk. While a company like Apple can marshal resources to oppose a demand with
26 which it disagrees, even in an exceedingly difficult procedural posture, many
27 smaller companies simply could not effectively fight such a demand. Faced with
28 the risk of being held in contempt of court for non-compliance, those companies

1 might have no choice but to comply, regardless of principled objections. The
2 government should not be allowed to abuse *ex parte* proceedings in this manner.

3 **CONCLUSION**

4 For these reasons, the Court should vacate its Order.

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