

President Barack Obama
The White House
1600 Pennsylvania Avenue NW
Washington, DC 20500

May 19, 2015

Dear President Obama,

We the undersigned represent a wide variety of civil society organizations dedicated to protecting civil liberties, human rights, and innovation online, as well as technology companies, trade associations, and security and policy experts. We are writing today to respond to recent statements by some Administration officials regarding the deployment of strong encryption technology in the devices and services offered by the U.S. technology industry. Those officials have suggested that American companies should refrain from providing any products that are secured by encryption, unless those companies also weaken their security in order to maintain the capability to decrypt their customers' data at the government's request. Some officials have gone so far as to suggest that Congress should act to ban such products or mandate such capabilities.

We urge you to reject any proposal that U.S. companies deliberately weaken the security of their products. We request that the White House instead focus on developing policies that will promote rather than undermine the wide adoption of strong encryption technology. Such policies will in turn help to promote and protect cybersecurity, economic growth, and human rights, both here and abroad.

Strong encryption is the cornerstone of the modern information economy's security. Encryption protects billions of people every day against countless threats—be they street criminals trying to steal our phones and laptops, computer criminals trying to defraud us, corporate spies trying to obtain our companies' most valuable trade secrets, repressive governments trying to stifle dissent, or foreign intelligence agencies trying to compromise our and our allies' most sensitive national security secrets.

Encryption thereby protects us from innumerable criminal and national security threats. This protection would be undermined by the mandatory insertion of any new vulnerabilities into encrypted devices and services. Whether you call them "front doors" or "back doors", introducing intentional vulnerabilities into secure products for the government's use will make those products less secure against other attackers. Every computer security expert that has spoken publicly on this issue agrees on this point, including the government's own experts.

In addition to undermining cybersecurity, any kind of vulnerability mandate would also seriously undermine our economic security. U.S. companies are already struggling to maintain international trust in the wake of revelations about the National Security Agency's surveillance programs. Introducing mandatory vulnerabilities into American products would further push many customers—be they domestic or international,

individual or institutional—to turn away from those compromised products and services. Instead, they—and many of the bad actors whose behavior the government is hoping to impact—will simply rely on encrypted offerings from foreign providers, or avail themselves of the wide range of free and open source encryption products that are easily available online.

More than undermining every American’s cybersecurity and the nation’s economic security, introducing new vulnerabilities to weaken encrypted products in the U.S. would also undermine human rights and information security around the globe. If American companies maintain the ability to unlock their customers’ data and devices on request, governments other than the United States will demand the same access, and will also be emboldened to demand the same capability from their native companies. The U.S. government, having made the same demands, will have little room to object. The result will be an information environment riddled with vulnerabilities that could be exploited by even the most repressive or dangerous regimes. That’s not a future that the American people or the people of the world deserve.

The Administration faces a critical choice: will it adopt policies that foster a global digital ecosystem that is more secure, or less? That choice may well define the future of the Internet in the 21st century. When faced with a similar choice at the end of the last century, during the so-called “Crypto Wars”, U.S. policymakers weighed many of the same concerns and arguments that have been raised in the current debate, and correctly concluded that the serious costs of undermining encryption technology outweighed the purported benefits. So too did the President’s Review Group on Intelligence and Communications Technologies, who unanimously recommended in their December 2013 report that the US Government should “(1) fully support and not undermine efforts to create encryption standards; (2) not in any way subvert, undermine, weaken, or make vulnerable generally available commercial software; and (3) increase the use of encryption and urge US companies to do so, in order to better protect data in transit, at rest, in the cloud, and in other storage.”

We urge the Administration to follow the Review Group’s recommendation and adopt policies that promote rather than undermine the widespread adoption of strong encryption technologies, and by doing so help lead the way to a more secure, prosperous, and rights-respecting future for America and for the world.

Thank you,

Civil Society Organizations

Access

Advocacy for Principled Action in Government

American-Arab Anti-Discrimination Committee (ADC)

American Civil Liberties Union

American Library Association

Benetech

Bill of Rights Defense Committee

Center for Democracy & Technology
Committee to Protect Journalists
The Constitution Project
Constitutional Alliance
Council on American-Islamic Relations
Demand Progress
Defending Dissent Foundation
DownsizeDC.org, Inc.
Electronic Frontier Foundation
Electronic Privacy Information Center (EPIC)
Engine
Fight for the Future
Free Press
Free Software Foundation
Freedom of the Press Foundation
GNOME Foundation
Human Rights Watch
The Media Consortium
New America's Open Technology Institute
Niskanen Center
Open Source Initiative
PEN American Center
Project Censored/Media Freedom Foundation
R Street
Reporters Committee for Freedom of the Press
TechFreedom
The Tor Project
U.S. Public Policy Council of Association for Computing Machinery
World Privacy Forum
X-Lab

Companies & Trade Associations

ACT | The App Association
Adobe
Apple Inc.
The Application Developers Alliance
Automattic
Blockstream
Cisco Systems
Coinbase
Cloud Linux Inc.
CloudFlare
Computer & Communications Industry Association
Consumer Electronics Association (CEA)
Context Relevant
The Copia Institute

CREDO Mobile
Data Foundry
Dropbox
Evernote
Facebook
Gandi.net
Golden Frog
Google
HackerOne
Hackers/Founders
Hewlett-Packard Company
Internet Archive
Internet Association
Internet Infrastructure Coalition (i2Coalition)
Level 3 Communications
LinkedIn
Microsoft
Misk.com
Mozilla
Open Spectrum Inc.
Rackspace
Rapid7
Reform Government Surveillance
Sonic
ServInt
Silent Circle
Slack Technologies, Inc.
Symantec
Tech Assets Inc.
TechNet
Tumblr
Twitter
Wikimedia Foundation
Yahoo

Security and Policy Experts*

Hal Abelson, Professor of Computer Science and Engineering, Massachusetts Institute of Technology

Ben Adida, VP Engineering, Clever Inc.

Jacob Appelbaum, The Tor Project

Adam Back, PhD, Inventor, HashCash, Co-Founder & President, Blockstream

Alvaro Bedoya, Executive Director, Center on Privacy & Technology at Georgetown Law

Brian Behlendorf, Open Source software pioneer

Steven M. Bellovin, Percy K. and Vida L.W. Hudson Professor of Computer Science, Columbia University

Matt Bishop, Professor of Computer Science, University of California at Davis
Matthew Blaze, Director, Distributed Systems Laboratory, University of Pennsylvania
Dan Boneh, Professor of Computer Science and Electrical Engineering at Stanford University
Eric Burger, Research Professor of Computer Science and Director, Security and Software Engineering Research Center (Georgetown), Georgetown University
Jon Callas, CTO, Silent Circle
L. Jean Camp, Professor of Informatics, Indiana University
Richard A. Clarke, Chairman, Good Harbor Security Risk Management
Gabriella Coleman, Wolfe Chair in Scientific and Technological Literacy, McGill University
Whitfield Diffie, Dr. sc. techn., Center for International Security and Cooperation, Stanford University
David Evans, Professor of Computer Science, University of Virginia
David J. Farber, Alfred Filter Moore Professor Emeritus of Telecommunications, University of Pennsylvania
Dan Farmer, Security Consultant and Researcher, Vicious Fishes Consulting
Rik Farrow, Internet Security
Joan Feigenbaum, Department Chair and Grace Murray Hopper Professor of Computer Science Yale University
Richard Forno, Jr. Affiliate Scholar, Stanford Law School Center for Internet and Society
Alex Fowler, Co-Founder & SVP, Blockstream
Jim Fruchterman, Founder and CEO, Benetech
Daniel Kahn Gillmor, ACLU Staff Technologist
Robert Graham, creator of BlackICE, sidejacking, and masscan
Jennifer Stisa Granick, Director of Civil Liberties, Stanford Center for Internet and Society
Matthew D. Green, Assistant Research Professor, Johns Hopkins University Information Security Institute
Robert Hansen, Vice President of Labs at WhiteHat Security
Lance Hoffman, Director, George Washington University, Cyber Security Policy and Research Institute
Marcia Hofmann, Law Office of Marcia Hofmann
Nadim Kobeissi, PhD Researcher, INRIA
Joseph Lorenzo Hall, Chief Technologist, Center for Democracy & Technology
Nadia Heninger, Assistant Professor, Department of Computer and Information Science, University of Pennsylvania
David S. Isenberg, Producer, Freedom 2 Connect
Douglas W. Jones, Department of Computer Science, University of Iowa
Susan Landau, Worcester Polytechnic Institute
Gordon Fyodor Lyon, Founder, Nmap Security Scanner Project
Aaron Massey, Postdoctoral Fellow, School of Interactive Computing, Georgia Institute of Technology
Jonathan Mayer, Graduate Fellow, Stanford University
Jeff Moss, Founder, DEF CON and Black Hat security conferences

Peter G. Neumann, Senior Principal Scientist, SRI International Computer Science Lab,
Moderator of the ACM Risks Forum
Ken Pfeil, former CISO at Pioneer Investments
Ronald L. Rivest, Vannevar Bush Professor, Massachusetts Institute of Technology
Paul Rosenzweig, Professorial Lecturer in Law, George Washington University School of
Law
Jeffrey I. Schiller, Area Director for Security, Internet Engineering Task Force (1994-
2003), Massachusetts Institute of Technology
Bruce Schneier, Fellow, Berkman Center for Internet and Society, Harvard Law School
Micah Sherr, Assistant Professor of Computer Science, Georgetown University
Adam Shostack, author, “Threat Modeling: Designing for Security”
Eugene H. Spafford, CERIAS Executive Director, Purdue University
Alex Stamos, CISO, Yahoo
Geoffrey R. Stone, Edward H. Levi Distinguished Service Professor of Law, The
University of Chicago
Peter Swire, Huang Professor of Law and Ethics, Scheller College of Business, Georgia
Institute of Technology
C. Thomas (Space Rogue), Security Strategist, Tenable Network Security
Dan S. Wallach, Professor, Department of Computer Science and Rice Scholar, Baker
Institute of Public Policy
Nicholas Weaver, Researcher, International Computer Science Institute
Chris Wysopal, Co-Founder and CTO, Veracode, Inc.
Philip Zimmermann, Chief Scientist and Co-Founder, Silent Circle

*Affiliations provided only for identification purposes.