

Personal Technology Encryption

Vs.

Homeland Security

Compiled and Edited by

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About the Editor

Michael Erbschloe has worked for over 30 years performing analysis of the economics of information technology, public policy relating to technology, and utilizing technology in reengineering organization processes. He has authored several books on social and management issues of information technology that were published by McGraw Hill and other major publishers. He has also taught at several universities and developed technology-related curriculum. His career has focused on several interrelated areas:

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- Writing books and articles
- Publishing and editing
- Public policy analysis and program evaluation

Books by Michael Erbschloe

Threat Level Red: Cybersecurity Research Programs of the
U.S. Government (CRC Press)
Social Media Warfare: Equal Weapons for All (Auerbach Publications)
Walling Out the Insiders: Controlling Access to Improve Organizational
Security (Auerbach Publications)
Physical Security for IT (Elsevier Science)
Trojans, Worms, and Spyware (Butterworth-Heinemann)
Implementing Homeland Security in Enterprise IT (Digital Press)
Guide to Disaster Recovery (Course Technology)
Socially Responsible IT Management (Digital Press)
Information Warfare: How to Survive Cyber Attacks (McGraw Hill)
The Executive's Guide to Privacy Management (McGraw Hill)
Net Privacy: A Guide to Developing & Implementing an e-business
Privacy Plan (McGraw Hill)

Introduction

In recent years, new methods of electronic communication have transformed our society, most visibly by enabling ubiquitous digital communications and facilitating broad e-commerce. As such, it is important for our global economy and our national security to have strong encryption standards. The development and robust adoption of strong encryption is a key tool to secure commerce and trade, safeguard private information, promote free expression and association, and strengthen cyber security.

Private Citizens care deeply about privacy, and rightly so. Many companies have been responding to a market demand for products and services that protect the privacy and security of their customers. This has generated positive innovation that has been crucial to the digital economy.

The benefits of our increasingly digital lives, however, have been accompanied by new dangers, and we have been forced to consider how criminals and terrorists might use advances in technology to their advantage. For example, malicious actors can take advantage of the Internet to covertly plot violent robberies, murders, and kidnappings; sex offenders can establish virtual communities to buy, sell, and encourage the creation of new depictions of horrific sexual abuse of children; and individuals, organized criminal networks, and nation-states can exploit weaknesses in our cyber-defenses to steal our sensitive, personal information. Investigating and prosecuting these offenders is a core responsibility and priority of the Department of Justice. As national security and criminal threats continue to evolve, the Department has worked hard to stay ahead of changing threats and changing technology.

The more we as a society rely on electronic devices to communicate and store information, the more likely it is that information that was once found in filing cabinets, letters, and photo albums will now be stored only in electronic form. We have seen case after case—from homicides and kidnappings, to drug trafficking, financial fraud, and child exploitation—where critical evidence came from smart phones, computers, and online communications.

When changes in technology hinder law enforcement's ability to exercise investigative tools and follow critical leads, we may not be able to identify and stop terrorists who are using social media to recruit, plan, and execute an attack in our country. We may not be able to root out the child predators hiding in the shadows of the Internet, or find and arrest violent criminals who are targeting our neighborhoods. We may not be able to recover critical information from a device that belongs to a victim who cannot provide us with the password, especially when time is of the essence.

Of course, encryption is not the only technology terrorists and criminals use to further their ends. Terrorist groups, such as ISIL, use the Internet to great effect. With the widespread horizontal distribution of social media, terrorists can spot, assess, recruit, and radicalize vulnerable individuals of all ages in the United States either to travel or to conduct a homeland attack. As a result, foreign terrorist organizations now have direct access into the United States like never before. For example, in recent arrests, a group of individuals was contacted by a known ISIL supporter who had already successfully traveled to Syria and encouraged them to do the same.

Some of these conversations occur in publicly accessed social networking sites, but others take place via private messaging platforms. These encrypted direct messaging platforms are tremendously problematic when used by terrorist plotters.

In a world where users have sole control over access to their devices and communications, and so can easily block all lawfully authorized access to their data, the jury would not have been able to consider that evidence, unless the truck driver, against his own interest, provided the data. And the theoretical availability of other types of evidence, irrelevant to the case, would have made no difference. In that world, the grim likelihood that he would go free is a cost that we must forthrightly acknowledge and consider.

In addition to the Constitution, two statutes are particularly relevant to the Going Dark problem. Generally speaking, in order for the government to conduct real-time—i.e., data in motion—electronic surveillance of the content of a suspect’s communications, it must meet the standards set forth in either the amended versions of Title III of the Omnibus Crime Control and Safe Streets Act of 1968 (often referred to as “Title III” or the “Wiretap Act”) or the Foreign Intelligence Surveillance Act of 1978 (or “FISA”). Title III authorizes the government to obtain a court order to conduct surveillance of wire, oral, or electronic communications when it is investigating federal felonies. Generally speaking, FISA similarly relies upon judicial authorization, through the Foreign Intelligence Surveillance Court (FISC), to approve surveillance directed at foreign intelligence and international terrorism threats. Regardless of which statute governs, however, the standards for the real-time electronic surveillance of United States persons’ communications are demanding. For instance, if federal law enforcement seeks the authority to intercept phone calls in a criminal case using the Wiretap Act, a federal district court judge must find:

That there is probable cause to believe the person whose communications are targeted for interception is committing, has committed, or is about to commit, a felony offense;

That alternative investigative procedures have failed, are unlikely to succeed, or are too dangerous; and

That there is probable cause to believe that evidence of the felony will be obtained through the surveillance.

The law also requires that before an application is even brought to a court, it must be approved by a high-ranking Department of Justice official. In addition, court orders allowing wiretap authority expire after 30 days; if the government seeks to extend surveillance beyond this period, it must submit another application with a fresh showing of probable cause and investigative necessity. And the government is required to minimize to the extent possible its electronic interceptions to exclude non-pertinent and privileged communications. All of these requirements are approved by a federal court.

The statutory requirements for electronic surveillance of U.S. persons under FISA are also demanding. To approve that surveillance, the FISC, must, among other things, find probable cause to believe:

That the target of the surveillance is a foreign power or agent of a foreign power; and

That each of the facilities or places at which the electronic surveillance is directed is being used or is about to be used by a foreign power or an agent of a foreign power.

Similarly, when law enforcement investigators seek access to electronic information stored—i.e., data at rest—on a device, such as a smartphone, they are likewise bound by the mandates of the Fourth Amendment, which typically require them to demonstrate probable cause to a neutral judge, who independently decides whether to issue a search warrant for that data.

Source: <https://www.fbi.gov/news/testimony/going-dark-encryption-technology-and-the-balances-between-public-safety-and-privacy>

Law enforcement has concerns over certain technological changes, and there are fears that officials may be unable to keep pace with technological advances and conduct electronic surveillance if they cannot access certain information. Originally, the going dark debate centered on law enforcement's ability to intercept real-time communications. More recent technology changes have potentially impacted law enforcement capabilities to access not only communications, but stored data as well. There are concerns that enhanced encryption may affect law enforcement investigations, though there is limited empirical evidence. If evidence arises that investigations are hampered, policy makers may question what, if any, actions they should take. One option is that Congress could update electronic surveillance laws to cover data stored on smartphones. Congress could also prohibit the encryption of data unless law enforcement could still access the encrypted data. They may also consider enhancing law enforcement's financial resources and manpower, which could involve enhancing training for existing officers or hiring more personnel with strong technology expertise.

Some of these options may involve the application of a “back door” or “golden key” that can allow for access to smartphones. However, as has been noted, “when you build a back door for the good guys, you can be assured that the bad guys will figure out how to use it as well.” This is the tradeoff. Policy makers may debate which—if either—may be more advantageous for the nation on the whole: increased security coupled with potentially fewer data breaches and possibly greater impediments to law enforcement investigations, or increased access to data paired with potentially greater vulnerability to malicious actor.

Source: <https://www.hsdl.org/?view&did=787160>

Going Dark: Are Technology, Privacy, and Public Safety on a Collision Course?

James B. Comey
Director
Federal Bureau of Investigation

Brookings Institution
Washington, D.C.
October 16, 2014

Remarks as delivered.

Good morning. It's an honor to be here.

I have been on the job as FBI Director for one year and one month. I like to express my tenure in terms of months, and I joke that I have eight years and 11 months to go, as if I'm incarcerated. But the truth is, I love this job, and I wake up every day excited to be part of the FBI.

Over the past year, I have confirmed what I long believed—that the FBI is filled with amazing people, doing an amazing array of things around the world, and doing them well. I have also confirmed what I have long known: that a commitment to the rule of law and civil liberties is at the core of the FBI. It is the organization's spine.

But we confront serious threats—threats that are changing every day. So I want to make sure I have every lawful tool available to keep you safe from those threats.

An Opportunity to Begin a National Conversation

I wanted to meet with you to talk in a serious way about the impact of emerging technology on public safety. And within that context, I think it's important to talk about the work we do in the FBI, and what we need to do the job you have entrusted us to do.

There are a lot of misconceptions in the public eye about what we in the government collect and the capabilities we have for collecting information.

My job is to explain and clarify where I can with regard to the work of the FBI. But at the same time, I want to get a better handle on your thoughts, because those of us in law enforcement can't do what we need to do without your trust and your support. We have no monopoly on wisdom.

My goal today isn't to tell people what to do. My goal is to urge our fellow citizens to participate in a conversation as a country about where we are, and where we want to be, with respect to the authority of law enforcement.

The Challenge of Going Dark

Technology has forever changed the world we live in. We're online, in one way or another, all day long. Our phones and computers have become reflections of our personalities, our interests, and our identities. They hold much that is important to us.

And with that comes a desire to protect our privacy and our data—you want to share your lives with the people you choose. I sure do. But the FBI has a sworn duty to keep every American safe from crime and terrorism, and technology has become the tool of choice for some very dangerous people.

Unfortunately, the law hasn't kept pace with technology, and this disconnect has created a significant public safety problem. We call it "Going Dark," and what it means is this: Those charged with protecting our people aren't always able to access the evidence we need to prosecute crime and prevent terrorism even with lawful authority. We have the legal authority to intercept and access communications and information pursuant to court order, but we often lack the technical ability to do so.

We face two overlapping challenges. The first concerns real-time court-ordered interception of what we call "data in motion," such as phone calls, e-mail, and live chat sessions. The second challenge concerns court-ordered access to data stored on our devices, such as e-mail, text messages, photos, and videos—or what we call "data at rest." And both real-time communication and stored data are increasingly encrypted.

Let's talk about court-ordered interception first, and then we'll talk about challenges posed by different means of encryption.

In the past, conducting electronic surveillance was more straightforward. We identified a target phone being used by a bad guy, with a single carrier. We obtained a court order for a wiretap, and, under the supervision of a judge, we collected the evidence we needed for prosecution.

Today, there are countless providers, countless networks, and countless means of communicating. We have laptops, smartphones, and tablets. We take them to work and to school, from the soccer field to Starbucks, over many networks, using any number of apps. And so do those conspiring to harm us. They use the same devices, the same networks, and the same apps to make plans, to target victims, and to cover up what they're doing. And that makes it tough for us to keep up.

If a suspected criminal is in his car, and he switches from cellular coverage to Wi-Fi, we may be out of luck. If he switches from one app to another, or from cellular voice service to a voice or messaging app, we may lose him. We may not have the capability to quickly switch lawful surveillance between devices, methods, and networks. The bad guys know this; they're taking advantage of it every day.

In the wake of the Snowden disclosures, the prevailing view is that the government is sweeping up all of our communications. That is not true. And unfortunately, the idea that the government has access to all communications at all times has extended—unfairly—to the investigations of

law enforcement agencies that obtain individual warrants, approved by judges, to intercept the communications of suspected criminals.

Some believe that the FBI has these phenomenal capabilities to access any information at any time—that we can get what we want, when we want it, by flipping some sort of switch. It may be true in the movies or on TV. It is simply not the case in real life.

It frustrates me, because I want people to understand that law enforcement needs to be able to access communications and information to bring people to justice. We do so pursuant to the rule of law, with clear guidance and strict oversight. But even with lawful authority, we may not be able to access the evidence and the information we need.

Current law governing the interception of communications requires telecommunication carriers and broadband providers to build interception capabilities into their networks for court-ordered surveillance. But that law, the Communications Assistance for Law Enforcement Act, or CALEA, was enacted 20 years ago—a lifetime in the Internet age. And it doesn't cover new means of communication. Thousands of companies provide some form of communication service, and most are not required by statute to provide lawful intercept capabilities to law enforcement.

What this means is that an order from a judge to monitor a suspect's communication may amount to nothing more than a piece of paper. Some companies fail to comply with the court order. Some can't comply, because they have not developed interception capabilities. Other providers want to provide assistance, but they have to build interception capabilities, and that takes time and money.

The issue is whether companies not currently subject to the Communications Assistance for Law Enforcement Act should be required to build lawful intercept capabilities for law enforcement. We aren't seeking to expand our authority to intercept communications. We are struggling to keep up with changing technology and to maintain our ability to actually collect the communications we are authorized to intercept.

And if the challenges of real-time interception threaten to leave us in the dark, encryption threatens to lead all of us to a very dark place.

Encryption is nothing new. But the challenge to law enforcement and national security officials is markedly worse, with recent default encryption settings and encrypted devices and networks—all designed to increase security and privacy.

With Apple's new operating system, the information stored on many iPhones and other Apple devices will be encrypted by default. Shortly after Apple's announcement, Google announced plans to follow suit with its Android operating system. This means the companies themselves won't be able to unlock phones, laptops, and tablets to reveal photos, documents, e-mail, and recordings stored within.

Both companies are run by good people, responding to what they perceive is a market demand. But the place they are leading us is one we shouldn't go to without careful thought and debate as a country.

At the outset, Apple says something that is reasonable—that it's not that big a deal. Apple argues, for example, that its users can back-up and store much of their data in “the cloud” and that the FBI can still access that data with lawful authority. But uploading to the cloud doesn't include all of the stored data on a bad guy's phone, which has the potential to create a black hole for law enforcement.

And if the bad guys don't back up their phones routinely, or if they opt out of uploading to the cloud, the data will only be found on the encrypted devices themselves. And it is people most worried about what's on the phone who will be most likely to avoid the cloud and to make sure that law enforcement cannot access incriminating data.

Encryption isn't just a technical feature; it's a marketing pitch. But it will have very serious consequences for law enforcement and national security agencies at all levels. Sophisticated criminals will come to count on these means of evading detection. It's the equivalent of a closet that can't be opened. A safe that can't be cracked. And my question is, at what cost?

Correcting Misconceptions

Some argue that we will still have access to metadata, which includes telephone records and location information from telecommunications carriers. That is true. But metadata doesn't provide the content of any communication. It's incomplete information, and even this is difficult to access when time is of the essence. I wish we had time in our work, especially when lives are on the line. We usually don't.

There is a misconception that building a lawful intercept solution into a system requires a so-called “back door,” one that foreign adversaries and hackers may try to exploit.

But that isn't true. We aren't seeking a back-door approach. We want to use the front door, with clarity and transparency, and with clear guidance provided by law. We are completely comfortable with court orders and legal process—front doors that provide the evidence and information we need to investigate crime and prevent terrorist attacks.

Cyber adversaries will exploit any vulnerability they find. But it makes more sense to address any security risks by developing intercept solutions during the design phase, rather than resorting to a patchwork solution when law enforcement comes knocking after the fact. And with sophisticated encryption, there might be no solution, leaving the government at a dead end—all in the name of privacy and network security.

Another misperception is that we can somehow guess the password or break into the phone with a so-called “brute force” attack. Even a supercomputer would have difficulty with today's high-level encryption, and some devices have a setting whereby the encryption key is erased if someone makes too many attempts to break the password, meaning no one can access that data.

Finally, a reasonable person might also ask, “Can’t you just compel the owner of the phone to produce the password?” Likely, no. And even if we could compel them as a legal matter, if we had a child predator in custody, and he could choose to sit quietly through a 30-day contempt sentence for refusing to comply with a court order to produce his password, or he could risk a 30-year sentence for production and distribution of child pornography, which do you think he would choose?

Case Examples

Think about life without your smartphone, without Internet access, without texting or e-mail or the apps you use every day. I’m guessing most of you would feel rather lost and left behind. Kids call this FOMO, or “fear of missing out.”

With Going Dark, those of us in law enforcement and public safety have a major fear of missing out—missing out on predators who exploit the most vulnerable among us...missing out on violent criminals who target our communities...missing out on a terrorist cell using social media to recruit, plan, and execute an attack.

Criminals and terrorists would like nothing more than for us to miss out. And the more we as a society rely on these devices, the more important they are to law enforcement and public safety officials. We have seen case after case—from homicides and car crashes to drug trafficking, domestic abuse, and child exploitation—where critical evidence came from smartphones, hard drives, and online communication.

Let’s just talk about cases involving the content of phones.

In Louisiana, a known sex offender posed as a teenage girl to entice a 12-year-old boy to sneak out of his house to meet the supposed young girl. This predator, posing as a taxi driver, murdered the young boy and tried to alter and delete evidence on both his and the victim’s cell phones to cover up his crime. Both phones were instrumental in showing that the suspect enticed this child into his taxi. He was sentenced to death in April of this year.

In Los Angeles, police investigated the death of a 2-year-old girl from blunt force trauma to her head. There were no witnesses. Text messages stored on her parents’ cell phones to one another and to their family members proved the mother caused this young girl’s death and that the father knew what was happening and failed to stop it. Text messages stored on these devices also proved that the defendants failed to seek medical attention for hours while their daughter convulsed in her crib. They even went so far as to paint her tiny body with blue paint—to cover her bruises—before calling 911. Confronted with this evidence, both parents pled guilty.

In Kansas City, the DEA investigated a drug trafficking organization tied to heroin distribution, homicides, and robberies. The DEA obtained search warrants for several phones used by the group. Text messages found on the phones outlined the group’s distribution chain and tied the group to a supply of lethal heroin that had caused 12 overdoses—and five deaths—including several high school students.

In Sacramento, a young couple and their four dogs were walking down the street at night when a car ran a red light and struck them—killing their four dogs, severing the young man’s leg, and leaving the young woman in critical condition. The driver left the scene, and the young man died days later. Using “red light cameras” near the scene of the accident, the California Highway Patrol identified and arrested a suspect and seized his smartphone. GPS data on his phone placed the suspect at the scene of the accident and revealed that he had fled California shortly thereafter. He was convicted of second-degree murder and is serving a sentence of 25 years to life.

The evidence we find also helps exonerate innocent people. In Kansas, data from a cell phone was used to prove the innocence of several teens accused of rape. Without access to this phone, or the ability to recover a deleted video, several innocent young men could have been wrongly convicted.

These are cases in which we had access to the evidence we needed. But we’re seeing more and more cases where we believe significant evidence is on that phone or a laptop, but we can’t crack the password. If this becomes the norm, I would suggest to you that homicide cases could be stalled, suspects could walk free, and child exploitation might not be discovered or prosecuted. Justice may be denied, because of a locked phone or an encrypted hard drive.

My Thoughts

I’m deeply concerned about this, as both a law enforcement officer and a citizen. I understand some of this thinking in a post-Snowden world, but I believe it is mostly based on a failure to understand why we in law enforcement do what we do and how we do it.

I hope you know that I’m a huge believer in the rule of law. But I also believe that no one in this country should be above or beyond the law. There should be no law-free zone in this country. I like and believe very much that we need to follow the letter of the law to examine the contents of someone’s closet or someone’s cell phone. But the notion that the marketplace could create something that would prevent that closet from ever being opened, even with a properly obtained court order, makes no sense to me.

I think it’s time to ask: Where are we, as a society? Are we no longer a country governed by the rule of law, where no one is above or beyond that law? Are we so mistrustful of government—and of law enforcement—that we are willing to let bad guys walk away...willing to leave victims in search of justice?

There will come a day—and it comes every day in this business—where it will matter a great deal to innocent people that we in law enforcement can’t access certain types of data or information, even with legal authorization. We have to have these discussions now.

I believe people should be skeptical of government power. I am. This country was founded by people who were worried about government power—who knew that you cannot trust people in power. So they divided government power among three branches, with checks and balances for

each. And they wrote a Bill of Rights to ensure that the “papers and effects” of the people are secure from unreasonable searches.

But the way I see it, the means by which we conduct surveillance through telecommunication carriers and those Internet service providers who have developed lawful intercept solutions is an example of government operating in the way the founders intended—that is, the executive, the legislative, and the judicial branches proposing, enacting, executing, and overseeing legislation, pursuant to the rule of law.

Perhaps it’s time to suggest that the post-Snowden pendulum has swung too far in one direction—in a direction of fear and mistrust. It is time to have open and honest debates about liberty and security.

Some have suggested there is a conflict between liberty and security. I disagree. At our best, we in law enforcement, national security, and public safety are looking for security that enhances liberty. When a city posts police officers at a dangerous playground, security has promoted liberty—the freedom to let a child play without fear.

The people of the FBI are sworn to protect both security and liberty. It isn’t a question of conflict. We must care deeply about protecting liberty through due process of law, while also safeguarding the citizens we serve—in every investigation.

Where Do We Go from Here?

These are tough issues. And finding the space and time in our busy lives to understand these issues is hard. Intelligent people can and do disagree, and that’s the beauty of American life—that smart people can come to the right answer.

I’ve never been someone who is a scaremonger. But I’m in a dangerous business. So I want to ensure that when we discuss limiting the court-authorized law enforcement tools we use to investigate suspected criminals that we understand what society gains and what we all stand to lose.

We in the FBI will continue to throw every lawful tool we have at this problem, but it’s costly. It’s inefficient. And it takes time.

We need to fix this problem. It is long past time.

We need assistance and cooperation from companies to comply with lawful court orders, so that criminals around the world cannot seek safe haven for lawless conduct. We need to find common ground. We care about the same things. I said it because I meant it. These companies are run by good people. And we know an adversarial posture won’t take any of us very far down the road.

We understand the private sector’s need to remain competitive in the global marketplace. And it isn’t our intent to stifle innovation or undermine U.S. companies. But we have to find a way to help these companies understand what we need, why we need it, and how they can help, while

still protecting privacy rights and providing network security and innovation. We need our private sector partners to take a step back, to pause, and to consider changing course.

We also need a regulatory or legislative fix to create a level playing field, so that all communication service providers are held to the same standard and so that those of us in law enforcement, national security, and public safety can continue to do the job you have entrusted us to do, in the way you would want us to.

Perhaps most importantly, we need to make sure the American public understands the work we do and the means by which we do it.

I really do believe we can get there, with a reasoned and practical approach. And we have to get there together. I don't have the perfect solution. But I think it's important to start the discussion. I'm happy to work with Congress, with our partners in the private sector, with my law enforcement and national security counterparts, and with the people we serve, to find the right answer—to find the balance we need.

Thank you for having me here today

Source: <https://www.fbi.gov/news/speeches/going-dark-are-technology-privacy-and-public-safety-on-a-collision-course>

Chairman Goodlatte Statement at Encryption Hearing March 2, 2016

We welcome everyone today to this timely and important hearing on encryption.

Encryption is a good thing. It prevents crime, it prevents terrorist attacks. It keeps our most valuable information safe. Yet it is not used as effectively today as is necessary to protect against the ever increasing sophistication of foreign governments, criminal enterprises and just plain hackers.

We see this manifest almost every week in the reports of losses of massive amounts of our most valuable information from government agencies, retailers, financial institutions, and individuals. From identity theft to the compromising of our infrastructure, to our economic and military security, encryption must play an ever-increasing role and the companies that develop it must be encouraged to increase its effectiveness.

Encryption is a topic that may sound arcane or only the province of “techies,” but, in fact, is a subject whose solutions will have far-reaching and lasting consequences.

The Judiciary Committee is a particularly appropriate forum for this Congressional debate to occur. As the committee of exclusive jurisdiction over the U.S. Constitution, the Bill of Rights, and the federal criminal laws and procedures, we are well-versed in the perennial struggle between protecting Americans’ privacy and enabling robust public safety. This Committee is accustomed to addressing many of the significant legal questions arising from laws that govern surveillance and government access to communications, particularly the Wiretap Act, the Electronic Communications Privacy Act, the Foreign Intelligence Surveillance Act, and the Communications Assistance to Law Enforcement Act, otherwise known as CALEA.

Today’s hearing is a continuation of the Committee’s work on encryption – work that Congress is best-suited to resolve.

As the hearing title indicates, society has been walking a tightrope for generations in attempting to balance the security and privacy of Americans’ communications with the needs of our law enforcement and intelligence agencies. In fact, the entire world now faces a similar predicament, particularly as our commerce and communications bleed over international boundaries on a daily basis.

Encryption, in securing data in motion and in storage, is a valuable technological tool that enhances Americans’ privacy, protects our personal safety and national security, and ensures the free flow of our nation’s commerce. Nevertheless, as encryption has increasingly become a ubiquitous technique to secure communications among consumers, industry, and governments, a national debate has arisen concerning the positive and negative implications for public safety and national security.

This growing use of encryption presents new challenges for law enforcement seeking to obtain information during the course of its investigations, and even more foundationally, tests the basic

framework that our nation has historically used to ensure a fair and impartial evaluation of legal process used to obtain evidence of a crime.

We must answer this question: how do we deploy ever stronger, more effective encryption without unduly preventing lawful access to communications of criminals and terrorists intent on doing us harm? This now seems like a perennial question that has challenged us for years.

In fact, over 15 years ago I led congressional efforts to ensure strong encryption technologies and to ensure that the government could not automatically demand a backdoor key to encryption technologies. This enabled the U.S. encryption market to thrive and produce effective encryption technologies for legitimate actors rather than see the market head completely overseas to companies that do not have to comply with basic protections.

However, it is also true that this technology has been a devious tool of malefactors. Here is where our concern lies. Adoption of new communications technologies by those intending harm to the American people is outpacing law enforcement's technological capability to access those communications in legitimate criminal and national security investigations.

Following the December 2015 terrorist attack in San Bernardino, California, investigators recovered a cell phone owned by the county government but used by one of the terrorists responsible for the attack. After the FBI was unable to unlock the phone and recover its contents, a federal judge ordered Apple to provide "reasonable technical assistance to assist law enforcement agents in obtaining access to the data" on the device, citing the All Writs Act as its authority to compel.

Apple has challenged the court order, arguing that its encryption technology is necessary to protect its customers' communications' security and privacy, and raising both constitutional and statutory objections to the magistrate's order.

This particular case has some very unique factors involved and as such may not be an ideal case upon which to set precedent. And it is not the only case in which this issue is being litigated. Just yesterday, a magistrate judge in the Eastern District of New York ruled that the government cannot compel Apple to unlock an iPhone pursuant to the All Writs Act. It is clear that these cases illustrate the competing interests at play in this dynamic policy question – a question that is too complex to be left to the courts and must be answered by Congress.

Americans surely expect that their private communications are protected. Similarly, law enforcement's sworn duty is to ensure that public safety and national security are not jeopardized if possible solutions exist within their control.

This body, as well, holds its own Constitutional prerogatives and duties. Congress has a central role to ensure that technology advances so as to protect our privacy, help keep us safe, and prevent crime and terrorist attacks. Congress must also continue to find new ways to bring to justice criminals and terrorists.

We must find a way for physical security not to be at odds with information security. Law enforcement must be able to fight crime and keep us safe, and this country's innovative companies must at the same time have the opportunity to offer secure services to keep their customers safe.

The question for Americans and lawmakers is not whether or not encryption is essential, but instead, whether law enforcement should be granted access to encrypted communications when enforcing the law and pursuing their objectives to keep our citizens safe.

I look forward to hearing from our distinguished witnesses today as the Committee continues its oversight of this real-life dilemma facing real people all over the globe.

Source: <https://judiciary.house.gov/hearing/the-encryption-tightrope-balancing-americans-security-and-privacy/>

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