Keynote Address of Commissioner Ramirez 2011 Computers Freedom and Privacy Conference Georgetown Law Center Washington, DC June 14, 2011

Learning from History: Mobile and the Future of Privacy

Good afternoon. I want to thank EPIC and the Future of Privacy Forum for inviting me to speak today. I understand today's program has touched on a wide range of privacy issues — from Do Not Track, to cybersecurity, to the contrast between the European and American approaches to privacy. I would like to close the day with a focus on privacy in the mobile environment, which is a key part of the Federal Trade Commission's ambitious privacy agenda.¹

The theme of this conference is "The Future is Now," and nothing embodies that more than mobile technology. As others have remarked, the "future of mobile is the future of everything."² But, as a student of history, I think it is useful to view the present — and the future — through the lens of the past. History teaches that significant technological advances bring both tremendous benefits to consumers while often creating new privacy threats.

In 1890, Louis Brandeis and Samuel Warren published their influential article, *The Right to Privacy*. Warren and Brandeis feared that new "mechanical devices" would "invade[] the sacred precincts of private and domestic life." ³ The new technology that caused this alarm was the "snap camera," which Eastman Kodak introduced in the 1880s with the slogan "You press

¹ These remarks are my own and may not necessarily represent the views of the Commission as a whole or any other Commissioner.

² See Dan Frommer, "*The Future of Mobile is the Future of Everything*," BUSINESS INSIDER (June 6, 2011) (quoting Matt Gilligan, founder of SimpleGeo), *available at* <u>http://www.businessinsider.com/future-of-mobile-experts-2011-6</u>.

³ See Samuel D. Warren & Louis D. Brandeis, *The Right to Privacy*, 4 HARV. L. REV. 193, 195 (1890).

the button – we do the rest."⁴ Although photography had been around for many years, this cheaper and lighter camera enabled instant and candid photos of people in their everyday lives.⁵ This technological advance coincided with the rise of a tabloid press, which now had the means to print personal and potentially embarrassing photos of anyone.⁶ Warren, Brandeis, and many others were alarmed by the privacy ramifications of these developments. They cautioned that these new devices "threaten[ed] to make good the prediction that 'what is whispered in the closet shall be proclaimed from the house-tops."⁷ Little did they know how such concerns would manifest themselves in the 21st century.

While the new consumer technology of the late 1800's was the Kodak snap camera, today our digital lives are being transformed by mobile technology. As of this February, nearly 70 million people in the United States own smartphones. This is a 13% increase in smartphone ownership as compared to the prior three months.⁸ Today's smartphones are so powerful and sophisticated that their owners could not have imagined them just a few years ago.⁹ And smartphone users can choose from hundreds of thousands of applications that offer astonishing functionality, from the mundane and frivolous, like the much-loved Angry Birds, to the life-saving, such as apps to donate to victims of natural disasters.

⁴ See History of Kodak 1878-1929, available at http://www.kodak.com/global/en/corp/historyOfKodak/1878.jhtml?pq-path=2217/2687/2695/2699.

⁵ See William G. Staples, Encyclopedia of Privacy 430 (2007).

⁶ See Daniel J. Solove, Marc Rotenberg & Paul M. Schwartz, Privacy, Information and Technology 10 (2006).

⁷ See Warren & Brandeis, supra note 3, at 195.

⁸ See Stephanie Flosi, ComScore Reports February 2011 U.S. Mobile Subscriber Market Share, (Apr. 1, 2011), available at

http://www.comscore.com/Press Events/Press Releases/2011/4/comScore Reports February 2011 U.S. Mobile Subscriber_Market_Share.

⁹ See Robert Lee Hotz, The Really Smart Phone, WALL ST. J. (Apr. 23, 2011), available at http://www.online.wsj.com/article/SB10001424052748704547604576263261679848814.html.

I. Mobile's Defining Features Present Heightened Privacy Concerns

But what are the features of today's smartphones and tablets that make them a *new* technology with *new* privacy concerns? After all, there has been widespread access to the Internet via the desktop computer for nearly two decades. And a number of the concerns raised about mobile have been voiced about the general online environment for many years. Again, back to the Kodak snap camera: it was not the first camera sold in the United States, but it was cheaper and more widely available than prior cameras. And it was portable — mobile — in a way that earlier cameras were not. From a privacy perspective, those features made all the difference. Today's mobile devices have several defining features that also make a world of difference.

First, mobile devices are highly personal — always with you and always on. While desktop computers are often shared by multiple users, mobile phones are almost always used by only one person. And consumers take them nearly everywhere they go. Think of your own behavior. When was the last time you went out without your smartphone? For most people, that's as rare as leaving home without a wallet or purse. How often do you turn off your smartphone? For most of us, I imagine the answer is almost never, not even when we sleep. In fact, two-thirds of American adults have slept with their phone at their bedside.¹⁰

Then there is location. As with real estate, the three most important things about mobile are location, location, location. To an unprecedented degree, these devices collect information about consumers' precise whereabouts. When you factor in that smartphones are always with us and always on, the result can be a nearly complete record of where we spend our every moment.

¹⁰ See Douglas McIntyre, *Do You Sleep with Your Cell Phone? Most Americans Do*, DAILY FINANCE (Sept. 3, 2010), *available at* <u>http://www.dailyfinance.com/2010/09/03/do-you-sleep-with-your-cell-phone-most-americans-do-study-find/</u>.

This record can reveal sensitive information such as visits to a hospital, doctor's office, church, school, or political meeting.

Third, in many cases, mobile apps can collect a wide variety of information — some of it quite revealing — about users beyond their location. The Wall Street Journal has reported that many companies access a broad range of information, including the user's contacts, phone number, gender, age, and what other apps have been installed.¹¹ If software on your desktop computer did that, it might be called spyware.

Fourth, mobile devices and their apps are especially popular with kids and teens, and many apps are designed for children. Kids today learn how to play a game on a smartphone before they learn how to read, and they are often given their own mobile device — increasingly a smartphone — long before they receive their own PC. Whenever minors are involved, privacy concerns are at their peak. It is chilling to think what could happen if, for example, information gleaned from a mobile device or application about a child's daily schedule and whereabouts got into the wrong hands.

Mobile devices can also be a payment mechanism in a way desktop computers will never be, and this too, will raise unique privacy and data security issues. Mobile payment systems are in their embryonic stage, but as Google and others roll out programs to permit mobile phones to serve as a general payment mechanism, many will come to use their phone much as they now use their debit or credit card.

Finally, there is mobile's smaller screen. This lack of space makes reliance on written notices to address privacy issues particularly challenging.

¹¹ See Scott Thurm & Yukari Iwatani Kane, Your Apps Are Watching You, WALL ST. J. (Dec. 17, 2010), available at <u>http://www.online.wsj.com/article/SB10001424052748704694004576020083703574602.html</u>.

II. Privacy Protection Has Not Kept Pace with Advances in Mobile Technology

Industry has not yet risen to meet the unique privacy challenges presented by mobile technology. Technological innovation has far outpaced privacy protection, and, as a result, we now have a deepening "privacy deficit."¹²

Mobile data privacy has been called a "wild west,"¹³ and, regrettably, the description is all too apt. Everyone understands that a navigation app or an app that provides restaurant recommendations or local coupons needs geographic information. But gaming apps and others frequently collect location data for no clear reason. This is particularly alarming when apps are directed at children.

Consumers today are given limited notice, not to mention choice, before information about their location is shared. We see some "notice and choice" today before location information is shared with apps, but what happens next? Apps are not providing effective notice and choice before passing on location data to other companies. Many consumers would also be surprised, and disturbed, to learn that apps are collecting and sharing other personal information about them, including a unique ID assigned to their phone.¹⁴ Ad networks receiving this information from multiple apps can create detailed profiles of consumers that could be shared with a variety of online and offline companies, potentially including employers, schools, and insurance companies.

¹² See, e.g., Matthew Ingram, *FTC: Privacy Self-Regulation Not Enough*, "Do Not Track" Needed, GIGAOM (Dec. 1, 2010) (the FTC is "thinking about the privacy deficit American consumers suffer from") (quoting FTC Chairman Jon Leibowitz), *available at* <u>http://www.gigaom.com/2010/12/01/ftc-privacy-do-not-track/;</u> Editorial, *There's a Privacy Deficit*, L.A. TIMES (Mar. 17, 2008), *available at* <u>http://www.articles.latimes.com/2008/mar/17/opinion/ed-privacy17</u>.

¹³ See, e.g., Statement of Senator Blumenthal, *Hearing on Mobile Phone Privacy Protection Before the S. Subcomm.* on Privacy, Technology, and the Law, 112th Cong. (May 10, 2011), Tr. at 15.

¹⁴ See Thurm & Kane, supra note 11.

Against this backdrop of questionable privacy practices, many consumers report serious concerns about their privacy when using a mobile phone. According to an online survey of 1,000 consumers conducted by TRUSTe and Harris Interactive earlier this year, privacy is consumers' top concern when using mobile applications.¹⁵

III. FTC Preliminary Staff Report: A Prescription for Better Mobile Privacy

So what can be done? Companies acknowledge that consumer privacy and trust are vitally important to the long-term growth of mobile,¹⁶ and that more needs to be done to educate consumers about mobile privacy practices.¹⁷ But their actions suggest they often lose sight of these truths. That needs to change. Congress has expressed great interest in privacy issues, particularly with respect to mobile, and there are a variety of pending or expected bills on Do Not Track, baseline privacy standards, children's privacy, and data security. In this climate, it behooves individual companies and trade associations to work proactively to protect consumer privacy.

To that end, I urge companies to implement the recommendations in the preliminary report on privacy issued by FTC staff last December.¹⁸ For 40 years, the FTC has been the federal government's lead privacy law enforcer. The Report is the Commission staff's effort to

¹⁵ See Tim Peterson, *Privacy is Consumers' Top Mobile App Concern*, DIRECT MARKETING NEWS (Apr. 27, 2011), (reporting that 38% of survey respondents consumers identified privacy as their top concern, and 56% said the issue is one of their foremost concerns), *available at <u>http://www.dmnews.com/privacy-is-consumers-top-mobile-app-</u> concern-survey/article/201436/.*

¹⁶ See, e.g., Thurm & Kane, *supra* note 11 ("We have created strong privacy protections for our customers, especially regarding location-based data,' says Apple spokesman Tom Neumayr. 'Privacy and trust are vitally important.'"); Statement of Alan Davidson, Director of Public Policy, Google Inc., *Hearing on Mobile Phone Privacy Protection Before the S. Subcomm. on Privacy, Technology, and the Law*, 112th Cong. (May 10, 2011) ("Protecting privacy and security is essential for Internet commerce. . . . This is as true for our services that are available on mobile devices as it is for those that are available on desktop computers."), available at http://www.judiciary.senate.gov/pdf/11-5-10% 20Davidson% 20Testimony.pdf.

¹⁷ See, e.g., Apple Q&A on Location Data (Apr. 27, 2011) (press release), available at http://www.apple.com/pr/library/2011/04/27location_qa.html.

¹⁸ See FTC STAFF, PRELIMINARY REPORT: PRIVACY IN AN ERA OF RAPID CHANGE ("Report") (Dec. 1, 2010), *available at* <u>http://www.ftc.gov/os/2010/12/101201privacyreport.pdf</u>.

fundamentally rethink a wide range of privacy issues and offer best practices for industry, as well as guidance for Congress. The first key recommendation is "privacy by design," which seeks to shift the burden of privacy protection from consumers onto companies.

Privacy by design has clear application in the mobile arena. Companies are rolling out new mobile products and services every single day. It is cheaper for industry, and better for consumers, if companies take privacy into account from the earliest stages of development. This means built-in protections on mobile devices, such as encryption and providing for a data wipe at the end of the device's life. It means embedding privacy-protective default settings. And, it means collecting only the information needed for a specific and identified business purpose.

Companies often tell the FTC that they cannot innovate unless they are broadly permitted to collect information about consumers, on the theory that they may one day identify a new use for it. This approach to information collection is fundamentally at odds with privacy protection, and I've seen no concrete evidence that it promotes innovation. Platform developers and others should not keep information longer than necessary. For example, location information needed to identify WiFi hot spots should not be retained indefinitely. In data security breach cases, the FTC often sees data retained long past its usefulness to the company that collected it. Although it has no continuing use to the company, it is highly attractive to a hacker. For this reason, good corporate risk management, no less than privacy by design, dictates that companies dispose of consumer data they do not need.

The Report also recommends simplified notice and meaningful consumer choice. We can no longer rely on long and dense privacy policies to protect consumer privacy. Understandably, few consumers take the time to find, read, and understand privacy policies when sitting at their desktop. And on a mobile phone, a consumer might have to scroll through 100

7

screens to read a single privacy policy. That's not realistic. Privacy information should be presented in concise and plain English, or with universal icons or symbols, and, where possible, on a "just-in-time" basis.

For location information, there should be express, affirmative consent — opt-in consent, in other words — before the information is collected. That, of course, has clear application to the mobile arena. The Report also advocates that companies provide express affirmative consent for other sensitive data, such as medical and financial information and information about children.

As you know, the Report also recommends the establishment of a Do Not Track system for online behavioral advertising. You had what I'm sure was a lively discussion earlier today about Do Not Track, so I won't go into detail about our proposal. But I would like to point out that a majority of us on the Commission support Do Not Track, and we have made clear that it should apply to the mobile arena.¹⁹ With mobile websites, that's easy to accomplish, since they function like websites accessed through a desktop computer. Mobile apps present trickier questions of implementation that we are still working through.

The Report's third recommendation is increased transparency. Improving and standardizing privacy policies is one important step. I have already noted that written privacy policies are fundamentally flawed. But the FTC and other law enforcers, as well as consumer watchdog groups, rely on privacy policies as a comprehensive statement of a company's privacy practices. The Report therefore does not advocate abandoning privacy policies. Instead, it urges companies to make them clearer and more uniform for easy comparison. And that has particular relevance to mobile. According to a joint study by TRUSTe and Harris Interactive, just 19

¹⁹ See Prepared Statement of the Federal Trade Commission on Consumer Privacy and Protection in the Mobile Marketplace, Committee on Commerce, Science, and Transportation (May 19, 2011), available at http://www.ftc.gov/os/testimony/110519mobilemarketplace.pdf.

percent of the top 340 free applications contain a link to a written privacy policy.²⁰ Their absence in the mobile sphere adds to the enormous uncertainty about mobile data privacy.

IV. FTC Law Enforcement in Mobile Privacy

Now, I would like to turn briefly to law enforcement in the mobile arena. In the last year, the FTC has launched a mobile forensic lab, retained distinguished technologists including Ed Felten, our first Chief Technology Officer, who you heard from earlier today, and assembled a team focused on all manner of consumer protection issues in the mobile arena. We are in the midst of an expedited review of the Child Online Privacy Protection Act ("COPPA") as applied to the mobile sphere, and you can soon expect to hear the results of that review. And FTC staff has a number of nonpublic mobile investigations in the pipeline, so you can expect to see active enforcement in the mobile arena in the coming months. But we already have significant accomplishments to report.

Most importantly, we have negotiated consent orders with two of the most significant companies in mobile today — Google and Twitter. The FTC charged that Google deceived Gmail users when it used their information to launch its social network, Google Buzz.²¹ The Commission's proposed settlement contains strong injunctive relief, including limits on sharing information in certain circumstances without consumers' express affirmative consent. Google will also have to submit to independent privacy audits for the next 20 years. Significantly, the proposed *Google* order covers the full universe of Google products, including mobile.

²⁰ See Mark Hachman, *Most Mobile Apps Lack Privacy Policies*, PC MAG (Apr. 27, 2011), *available at* <u>http://www.pcmag.com/article2/0,2817,2384363,00.asp</u>; *see also* Thurm & Kane, *supra* note 11 (reporting that in a test of 101 apps, 45 failed to make written privacy policies available on a website or in the app).

²¹ See In re Google Inc., FTC File No. 102-3136 (Mar. 30, 2011) (proposed consent agreement), available at <u>http://www.ftc.gov/opa/2011/03/google.shtm</u>.

The *Twitter* order issued last year similarly protects Twitter's many mobile and nonmobile users. The Commission charged that serious flaws in Twitter's data security enabled hackers to access private account information and private tweets. In addition to injunctive relief, the Commission's order requires Twitter to undergo independent data security audits over the next decade.

Earlier this year, the Commission also brought its first case against text message spam.²² And last year, the FTC brought charges against a company for deceptively marketing mobile apps in the iTunes store.²³

It is still early when it comes to mobile enforcement. But the FTC is focused on the expanding mobile marketplace, and you can expect to see more enforcement actions involving mobile technology.

V. Conclusion

I would like to close with one final observation. No company wants to be the subject of an FTC enforcement action, just as many companies hope that Congress does not impose new legal requirements. I believe that what happens next is largely in industry's hands. The mobile industry can accomplish a great deal through voluntary action if it sets its mind to it. For better or worse, a small number of companies, mainly Apple and Google, assert significant control as gatekeepers over the mobile environment. My hope is that we will see them and other industry participants insist on the best practices advocated by the FTC's preliminary staff report. And I encourage industry to dedicate the considerable talents of its engineers and designers to provide

²² See FTC v. Flora, No. CV11-00299 (C.D. Cal.) (Compl. filed Feb. 22, 2011).

²³ See In re Reverb Commc'ns, Inc., FTC Docket No. C-4310 (Nov. 22, 2010) (consent order), available at www.ftc.gov/opa/2010/08/reverb.shtm.

workable, voluntary solutions to the privacy challenges presented by the remarkable mobile technology of today and tomorrow.

Thank you.