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FEDERAL TRADE COMMISSION

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FEDERAL TRADE COMMISSION

IN RE:)
PROTECTING CONSUMERS IN THE) Matter No.
NEXT TECH-ADE) P064101
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WEDNESDAY, NOVEMBER 8, 2006

GEORGE WASHINGTON UNIVERSITY
LISNER AUDITORIUM
730 21st Street, N.W.
Washington, D.C.

The above-entitled workshop commenced,
pursuant to notice, at 9:00 a.m., reported by Brenda
Smonskey.

P R O C E E D I N G S

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3 MR. BURG: Good morning, and welcome to the
4 third day of protecting consumers in the next
5 Tech-ade.

6 I hope the election last night hasn't taken
7 too much of a toll on you.

8 This panel this morning is about changes in
9 payment devices and systems.

10 We are going to be looking at a number of
11 technologies and systems that will echo some of the
12 technological advances that we have heard about over
13 the past couple of days. You will hear about
14 contactless credit cards, biometric payment systems,
15 the use of cell phones to make payments.

16 I'm Elliot Burg from the Vermont Attorney
17 General's office. And from a consumer protection or
18 law enforcement perspective, I think the point at
19 which consumers pay for goods and services is a
20 critical juncture with respect to consumer education,
21 with respect to consumer rights and with respect to
22 law enforcement.

23 We have a large and wonderful panel this
24 morning. And these folks are going to be telling you
25 about the devices and systems that are emerging, and

1 some of them are in full use in other parts of the
2 world at this point or in the United States.

3 There will be a discussion of opportunities
4 and issues of fraud and privacy related to these
5 payment devices and systems, and there will be some
6 discussion of potential solutions to issues of fraud
7 and privacy.

8 I will introduce members of the panel as they
9 present today. I would appreciate it if you would
10 just hold your applause until the end of the entire
11 panel.

12 One of our panel members, Tom Keithley from
13 I4 Commerce, is not here today, but we have a couple
14 people that will at least informally try to fill in
15 for him.

16 We will divide this panel into three parts.
17 The first part is an overview, focusing in particular
18 on electronic payment systems.

19 I would like to introduce Dr. Jeanne Hogarth
20 from the Federal Reserve Board.

21 MS. HOGARTH: Great. Thank you. I'm a
22 former college professor. So I will go over to the
23 podium because professors like to lean on stuff.

24 Do I advance this to get me started? It will
25 come up.

1 Okay. About a year ago, the Fed conducted
2 focus groups on payroll cards, one of those payment
3 technologies for people who choose not to have a bank
4 account or have their paycheck direct deposited into
5 a bank account.

6 When we talked to consumers, we got a range
7 on how consumers use these cards. One person said I
8 strictly just get my entire amount of whatever has
9 been credited to my account out and cashed. So the
10 card is a basically an ATM card for that person.

11 Another person said I use it just like a
12 checking account, I leave my money in there and I use
13 it as I need to.

14 And a third person said when they used to
15 give us a check, I would be broke, I have some money
16 now from payday to payday. So they saw this as a
17 real financial management tool to help them.

18 If you think about it, when you cash a check,
19 that money is in your wallet with little voices
20 saying "spend me, spend me." This was a way for him
21 or her -- I can't remember which -- to manage their
22 funds.

23 I need to issue a disclaimer that what you
24 are hearing today from me is just me. It does not
25 represent the views of the Federal Reserve Board, the

1 Board of Governors or the reserve banks or any of the
2 staff. It is just Jeanne.

3 So let's talk about what changes in payment
4 streams have been happening over the last few years.
5 And our data, this data comes from a Federal Reserve
6 bulletin article that you can access on the Web.

7 It basically shows you that in 2000, checks
8 amounted for 58 percent of the number of transactions
9 and 66 percent of the dollar value of those
10 transactions.

11 By 2003, that had come down to only about 45
12 percent of those number of transactions and about 60
13 percent and some change of the dollar value of those
14 transactions.

15 Credit cards rose a little bit, from 22 to 23
16 percent of the number of transactions. Debit cards
17 really took on a lot of that gap, moving from 11
18 percent of transactions in 2000 to 19 percent in
19 2003.

20 And ACH, which I know you have heard of and
21 you will hear more about this morning, went from 8
22 percent of transactions to 11 percent of transactions
23 and from 31 percent of the dollar volume to 37
24 percent of the dollar volume.

25 I think it is interesting to note here what

1 we don't know about those transactions are where are
2 the small ticket items and where are the big ticket
3 items, when consumers have to spend five, 10 bucks,
4 how are they spending it, and when I pay my mortgage,
5 how am I paying my mortgage.

6 The big dollar items versus the small dollar
7 volumes are sort of an interesting thing.

8 When we look at how do consumers use
9 technology, this happens to be from two different
10 data sets. The 2001 and 2004 data points are from
11 the Federal Reserve Board survey of consumer
12 finances. The 2003 data point is from a survey that
13 we used with the University of Michigan.

14 So there are slightly different samples. So
15 a lot of difference you see between 2003 and 2004 is
16 really a vestige of the sampling framework and not of
17 the actual trending, I would say.

18 But you can see nonetheless that more people
19 are using ATMs, a slight dip in direct deposit. More
20 people are using strong banking. Certainly more
21 people are using debit cards.

22 More people are using auto paying. And
23 automatic bill paying is I tell my bank on the 15th
24 of the month, always pay my car payment, on the 15th
25 of the month, always pay my rent or pay my mortgage.

1 That's different from going online and
2 arranging for the payment to be sent to my credit
3 card company, to the cable company. That would be
4 done by PC banking which, again, you can see a big
5 rise in PC banking, from about a fifth of consumers
6 to about a third of consumers.

7 When we look at technologies, we often think
8 about the old technologies that people use, ATMs,
9 direct deposit, phone banking, automated bill paying.

10 Even here these old technologies are
11 changing. ATMs are going a lot more into market
12 segmentation. We have ATMs that are owned by banks
13 and ATMs owned by what the industry calls ISO,
14 independent sales organizations. Those are the ATMs
15 you might see in a convenience store or in a gambling
16 casino, let's say.

17 Interestingly, the deployment of new ATMs has
18 outpaced the growth in the number of users. What we
19 are seeing is fewer transactions per ATM than on the
20 surface you might think, well, lower revenue per ATM,
21 so eventually we will hit an equilibrium.

22 The reality is that a lot of the growth in
23 ATMs is coming in what we call foreign ATMs. These
24 are ATMs where they can charge or surcharge a user
25 fee. Not only would your bank charge for using that,

1 but the ATM itself charges. We are seeing surcharges
2 going up all the time.

3 Other new trends that we are seeing in ATMs,
4 imaging, so you will soon be able to scroll a check
5 into the ATM and have it act as a check casher,
6 assuming you have an account with the bank.

7 There are a lot of new technologies emerging
8 with the ATM. There it is.

9 We have already seen in the data fewer
10 checks, more debits. Debits allow faster processing
11 at point of sale, the lines are shorter and people
12 can get through more. None of us likes to wait in
13 line too long.

14 Two-thirds of adults have purchased or
15 received a gift card. 55 of those spend more than
16 the initial value. You can see why retailers like
17 gift cards.

18 In 2005, 90 percent of people used some sort
19 of plastic credit cards, debit cards or prepaid
20 cards. That's up from 78 percent in 2000. We are
21 also seeing things like consumers write a check to
22 pay their utility bill but that check is processed as
23 a debit. It is electronically converted.

24 I have mentioned payroll cards, mentioned
25 prepaid cards, and we all know about credit cards.

1 Consumers really do have a choice of paper, plastic
2 or electrons.

3 There are even more electrons out there in
4 the marketplace. Those of you who are in the
5 Washington area obviously know about the SmartTrip
6 cards.

7 We have seen a rise in online banking. You
8 saw the data from a fifth to a third of people using
9 PC banking. We have seen in Internet transactions
10 the evolution of PayPal, in addition to using debit
11 and credit cards.

12 We will be talking later this morning about
13 the contactless devices, the radio frequency devices,
14 the contactless debit and credit cards, the speed
15 pass, the EZ Pass that many of us use in and around
16 the highways in the Northeast area here.

17 We are going to be talking a little bit about
18 reloadable versus single load. I think one of the
19 issues that we all want to sort of keep a handle on
20 for this group is what are the consumer regulation
21 implications for a reloadable card that might be
22 different from a single-load card.

23 So when I get the gift card from the
24 bookstore and I'm not going to reload money on it,
25 maybe I need a different set of consumer protections

1 than when I have a reloadable card that I might lose
2 and I might have a substantial amount of money on it.
3 I hate to tell you how much money is on my SmartTrip
4 card right now because you will all mug me leaving
5 the stage.

6 There are issues of seniorage and unclaimed
7 funds and who gets those moneys and if it's the state
8 in which the card was sold, the state in which the
9 company is headquartered.

10 There are some interesting issues out there
11 with respect to unclaimed funds.

12 We did a survey a number of years ago and we
13 looked at how consumers break out in their use of
14 these products. We found five basic clusters.

15 Big surprise, there are people who don't use
16 them at all, and those tend to be low income,
17 elderly, less educated, no surprise. The mega users,
18 the people who use everything are exactly the
19 opposite side of the scale, the high income, high
20 education, younger people.

21 The people who are using the EZ pays, the
22 phone and PC banking and auto payments, tend to be
23 the highest income and best educated. They are also
24 us middle agers. Interesting thing to think about.

25 Okay. Challenges and opportunities. There

1 are pluses and minuses to all these technologies.
2 Part of me as a consumer educator says I see the real
3 advantage in helping people improve their financial
4 management. You don't have to go to the check
5 cashier, cash out your whole check and walk out of
6 there with a giant "rob me" sign on you.

7 Like that first quote I read you, it helps me
8 manage my paycheck so I have money at the end of the
9 month. There is a lot of real good potential for
10 these products.

11 There is always the dark side. We will talk
12 more about the issue of fraud, identity theft and
13 issues like that. There are technology gaps not only
14 between the haves and the have nots, and I think that
15 kind of gap is narrowing. There are also with the
16 clustering issue issues of income and age.

17 And one of the issues becomes are we really
18 going to just age out of this problem or are we going
19 to have the problems change.

20 So with that in mind, I'm going to turn this
21 back over to the next speaker and we will move on
22 from there.

23 Thank you.

24 (Applause.)

25 MR. BURG: Thank you, Jeanne.

1 We are going to have a brief international
2 perspective here by video. Delia Rickard is a
3 regional commissioner for the Australian Securities
4 and Investments Commission. I understand we are
5 going to roll her presentation now.

6 (Whereupon, the video was played.)

7 MR. BURG: We had bit of an echo up here.

8 I will turn to some of my respondents. I
9 would like you to focus on Jeanne Hogarth's
10 presentation and particularly with respect to what I
11 would call the more traditional forms of electronic
12 payments that are out there, maybe increasing in use.

13 Our discussants are Jean Ann Fox from the
14 Consumer Federation of America and Paul Tomasofsky
15 from Two Sparrows Consulting.

16 Your thoughts on Jeanne's presentation?

17 MS. FOX: Thank you very much. Good morning.

18 Consumers need to have confidence in the
19 payment mechanisms that they use. That is generally
20 provided by enforceable consumer protection law.

21 What we have seen in the payments marketplace
22 is an explosion in the different types of plastic
23 that is available to help consumers spend their
24 money.

25 But the consumer protections have not kept up

1 with the plastic proliferation. So you have one set
2 of rights if you use your credit card, another set of
3 rights if you use a debit card. You have absolutely
4 no federal consumer protections at all if you use a
5 stored value card or prepaid debit card, as Jeanne
6 described.

7 Starting next year, if you are paid by a
8 payroll card, the Federal Reserve has said that you
9 will be protected under the Electronic Funds Transfer
10 Act. But the cards that are being provided,
11 especially to low-income consumers, unbanked
12 consumers to function as a bank account in your
13 pocket are not protected by any federal law.

14 As a transAtlantic consumer dialogue advised
15 both the U.S. and the European Union a few years ago,
16 we need to harmonize consumer protections so that
17 they apply to all forms of payment mechanisms so
18 consumers can be assured that there are liability
19 limits if your card malfunctions, there is recourse
20 so you can get your money back, there is a dispute
21 process, so there are billing standards if a bill is
22 involved.

23 We think there should be some simple
24 principles that apply to protecting consumers
25 regardless of the type of payment mechanism that you

1 are using. The protection should be universal.

2 They should apply to every form of payment
3 mechanism. They should be uniform to the extent
4 possible. Right now, if you write a check, it can be
5 processed in one of several different ways and each
6 way involves a different set of protections. It is
7 completely confusing to consumers.

8 The third principle for protecting consumers
9 in the payment market is that there shouldn't be any
10 reduction in protections that consumers already have.
11 For example, we are all used to the \$50 liability
12 limit for unauthorized use of a credit card. That
13 would make a good standard regardless of the type of
14 card involved.

15 MR. BURG: Great. Paul Tomasofsky.

16 MR. TOMASOFSKY: I think as we talk about new
17 and evolving forms of payment, I like to look at the
18 business models, the business models from the
19 providers as well as the consumers.

20 What is the compelling business case to be
21 able to make these products work in the marketplace?
22 There are a lot of products that have been tried over
23 the last 15 to 20 years, even as we move to more and
24 more electronic. Most of them have failed.

25 So we look for what's the business model and

1 what is the compelling argument, why are consumers
2 going to use it. Consumers are demanding
3 convenience, more and more convenience in their
4 products today. Electronics provide that.

5 And also one of confidence. We mentioned
6 confidence already. I looked at confidence from a
7 different angle, from that of fraud or confidence
8 that the system, that the product can be used and
9 someone is not going to take your money.

10 We hear a lot in the press about ID theft and
11 about takeover of accounts, et cetera. Consumers are
12 starting to wonder is it safe to use my credit card.

13 In fact, empirically we know that some
14 consumers have taken out different cards, a new
15 credit card or debit card, specifically for Internet
16 transactions and they segregate their payments
17 because they want to put a human firewall around what
18 happens there. Those are the kind of things that as
19 we are developing products in the industry that we
20 need to keep an eye out for.

21 MR. BURG: Thank you. Just to underscore
22 Jeanne's point about the nonuser group, there is a
23 recent report from Larosa that talks about the high
24 cost of remittances from the United States to
25 countries in Latin America.

1 And I think the underlying reason for that
2 that's flagged in the report is many people who send
3 remittances to Latin American countries don't have a
4 bank account. There is a group of Americans, even
5 before we get to things like contactless credit
6 cards, who are not even plugged into the banking
7 system.

8 I would like to turn a little bit future now
9 with the second part of the program. We are going to
10 talk about new payment methods now, state of the art
11 and predictions. And I think we have a short video
12 on near-field communication.

13 (Whereupon, the video was played.)

14 MR. BURG: So here to talk to us in person
15 about NFC technology and contactless payments is Mark
16 MacCarthy from Visa USA. Mark.

17 MR. MACCARTHY: I'm going to wait for that
18 device to load. I have been told to be patient, it
19 will get there.

20 Thanks very much. I do want to say a couple
21 things about some of the issues that were brought up
22 earlier, and then I will get into the discussion on
23 contactless payments.

24 Just responding in no particular order to the
25 comments that were made, this is the agenda for what

1 we are going to be talking about.

2 Jeanne and I have talked in a large number of
3 instances about this issue of consumer protections.
4 And there are different legal standards for consumer
5 protections between debit and credit cards and some
6 payment systems, mobile payment systems, where the
7 carrier does the billing, third-party billing having
8 no legal consumer protections at all.

9 She has been proposing for years this idea of
10 a harmonized operation. We don't think it is a crazy
11 idea. It is an idea worth pursuing.

12 At some point the marketplace may need to be
13 constrained with a uniform floor that applies to all
14 payment systems so consumers have a sense of what
15 their fundamental basic protections are and
16 competition can work above that to provide additional
17 consumer protections.

18 That's the way it has worked so far. Visa
19 has equalized consumer protections across all its
20 card products so we have zero liability for debit,
21 credit and prepaid. We have identical refund rights
22 and dispute resolution rights for all the different
23 card products we have.

24 An effort that would harmonize legislation in
25 this area probably would be something worth

1 exploring. On the fraud point, we will be talking a
2 little bit about this in the context of the
3 contactless operation.

4 It is important to remember that the Visa
5 cards and Mastercards and the American Express cards
6 are very safe products to use, our fraud rate is low.
7 It is 6, 7 cents for every hundred dollars worth of
8 fraud. It has been on a downward trend for a couple
9 of decades due to the investments we have made in
10 neural networks and other fraud detection devices.

11 One of the newest ones we have is called
12 Advanced Authorization, where at the time of the
13 transaction, a risk score is calculated and provided
14 to the issuing bank so the issuing bank knows the
15 likelihood that transaction might be fraudulent and
16 it includes information that has to do with whether
17 or not the card number had been involved in a data
18 breach.

19 It is the kind of technology that we think
20 will help to improve our ability to catch fraud and
21 prevent it before it even happens.

22 So where are we going in this contactless
23 demonstration? I have also been told to be patient
24 when you push the button, that it will move if you
25 push it and you shouldn't push it twice.

1 This is the opportunity for us in the
2 contactless area. Our enemy in this area is cash and
3 checks, in particular cash.

4 If you look at the numbers here, we have a
5 possible marketplace of \$1.2 trillion to go after
6 with our contactless operation.

7 I do want to say that the numbers that you
8 heard about earlier from the Federal Reserve are
9 reflected in Visa's numbers. Our debit card
10 transactions now exceed our credit card transactions.

11 In 2005, debit represented 43 percent of the
12 sales volume but represented 63 percent of our total
13 number of transactions.

14 We find that debit cards are being used for
15 everyday transactions. We have also noticed that in
16 terms of the discussion here of the role of
17 electronic payments -- Jeanne didn't mention this --
18 electronic payments, as you can see from this chart,
19 have passed cash and checks as the majority form of
20 payment in the United States.

21 The prepaid card operation, it is a nascent
22 market. We don't want to exaggerate the size of it
23 yet. It is a \$25 billion business right now, which
24 is compared to the total sales for Visa of 16 percent
25 of personal consumption expenditures.

1 And I just want to emphasize before I leave
2 that Visa protections apply to all of those products.

3 All right. Contactless. Why do people want
4 contactless? There are three different groups of
5 people who would be interested. One is the consumers
6 themselves, the issuing banks who would want to issue
7 the cards and the merchants who want to accept it.

8 For consumers, it is fast, it is convenient.
9 You saw the reaction from some of the people at the
10 test there in Atlanta. It is cool. It is a bright
11 new technology that people would like to use. For
12 merchants, it is speed at check-out, shorter
13 check-out lines.

14 They will be doing their cueing theory
15 analysis to find out whether they are getting enough
16 benefit to make it worth the investment.

17 For the issuers, they get extra volume, extra
18 use of the card, they get loyalty for people who like
19 the kind of operation they have, and they are looking
20 forward to differentiation.

21 The contactless payment features that I want
22 to show you here, the ones that had to do with the
23 use of the card, not through a cell phone but through
24 a card itself, you want to make sure that the
25 technology is usable to insert card payment

1 information into our payment network. It is not
2 designed to be part of any kind of ubiquitous RFID
3 network.

4 We want faster and more convenient ways of
5 getting information into our network. This is what
6 it looks like at the point of sale if you go to CVS
7 or McDonald's. This is the kind of technology you
8 will see.

9 It is important to notice that Visa and
10 MasterCard have harmonized the standards involved
11 here. The communication between the card and the
12 reader has been standardized to make it easier for
13 the reader to be produced.

14 The evolution of contactless, you saw where
15 it was going by seeing the near-field commercial.

16 There are two directions it goes in. One is
17 into mobile phones. Because there is a chip on the
18 card, it also goes in the direction of smart cards.

19 The contactless penetration is pretty good.
20 There are 6 million Visa cards globally. We have
21 three different issuers doing it in the United
22 States. And Mastercard and American Express are also
23 in the marketplace.

24 Let me move on here, if I could.

25 These are some of the merchants who are using

1 it. We have 7-Eleven, CVS, McDonald's in this area
2 and there are others nationwide. We have contactless
3 in about 30,000 locations in the United States, and
4 that's growing.

5 MR. BURG: We are getting a time out signal
6 from our relentless timekeepers.

7 MR. MACCARTHY: I am actually finished. I am
8 happy to wait for the controversial questions about
9 the security of this until we get to the end of the
10 discussion.

11 We think it is a good technology. It is
12 growing. We are hoping to fill in all those states
13 so it looks more like the Democratic victory last
14 night.

15 MR. BURG: Thank you.

16 The second form of payment device in our
17 trilogy this morning is a set of alternative payment
18 types, including PayPal, phone operator based billing
19 and Microsoft points.

20 Here is David Turner from Microsoft.

21 MR. TURNER: I don't have a deck to go
22 through. In talking about alternative payment types,
23 I really want to emphasize a point of view that what
24 we are moving towards is a separation, actually not
25 moving towards. But what we are learning to

1 understand is that there is a separation from the
2 identity user making a payment and the mechanism by
3 which you make the payment.

4 If you think of your credit card today, the
5 regular old piece of plastic you have and I will even
6 go to far as to say it is contactless, you already
7 have five different ways of transferring that
8 identity to make a purchase transaction.

9 You can give it verbally, you can have it
10 imprinted, swiped, there is contactless and then
11 there is self-entry, if you are doing it on a laptop
12 or computer into a Web browser.

13 You already have five different ways of
14 taking the same payment information or payment
15 identity and executing a transaction.

16 What we are finding is happening, though, is
17 other forms of payment mechanisms are coming into
18 play and have been for quite a few years to try and
19 solve various convenience issues and to solve certain
20 usage scenarios that existing systems don't currently
21 support.

22 Peer-to-peer currency exchange is one that
23 people can't do today. PayPal allows you to do that
24 over the Web and, of course, is becoming quite large
25 as a result of things like eBay.

1 There is no way I could do an electronic
2 currency exchange with Mark just by tapping our
3 phones together.

4 With technologies like NFC being available,
5 we have the technology that would allow us to make an
6 electronic exchange of some sort. We don't have the
7 backend fulfillment to solve the rest of the problem.

8 The main thing I really want to emphasize is
9 that as we move forward, I think what we need to
10 think more and more about is the distinctions between
11 the payment identity that you have and you use and
12 the protection and services you get from that payment
13 identity from the mechanisms that we use to apply
14 that payment identity in a variety of different
15 scenarios.

16 So, of course, that means different people
17 are trying to get into the business of being the
18 payment house. I'm sure Mark will agree. There is a
19 fair amount of money to be made in this business.

20 Cell phone operators have a unique
21 opportunity in that they have already got a secure
22 representation in every handset that's out there, and
23 an identity that is at the same level of trust as I
24 would say the rest of the credit card companies have
25 with the consumer.

1 What they don't have yet, of course, is the
2 same backend dispute resolution and -- I forget all
3 the proper terms -- actually paying the vendors who
4 actually sold the products.

5 There are a lot of backend services they
6 don't tie into yet, which is the challenge they are
7 trying to address.

8 As far as trusting the consumer, as far as
9 security goes and their ability to fulfill just the
10 consumer-level payment, they are in a very good
11 position for doing things like micro payments.

12 You think of your current cell phone bill
13 today -- certainly mine -- I get this long, very long
14 list of atomic transactions, every single time I did
15 anything on my device, whether it was check voice
16 mail, send a text message, go online for data, answer
17 the phone, whatever it happens to be. I have a
18 record of that.

19 That's micro billing. They are keeping track
20 of my data usage even though I have a bulk plan, even
21 though somewhere in the -- it is less than a kilobyte
22 per use is the level at which they are tracking.

23 So they have a great system in place for
24 doing micropayments. But again, that's sort of the
25 rest of the system that is not in place. They don't

1 have a relationship set up with banks and vendors and
2 with other people. That is one of the challenges
3 that they have.

4 The reason that Microsoft, of course, is
5 interested in all this is as these systems move
6 forward, our goal is to help provide software that
7 enables the exchange in a secure, trusted way of
8 those payment identities regardless of how you choose
9 to do it, whether you enter it in a browser and then
10 it connects to a backend server, whether it is
11 through an NFC payment, through a card or one of the
12 things Microsoft is actively involved in, which is
13 the NFC forum, having it integrated into a mobile
14 device so you can use it at point of payment.

15 We want to be able to make it so that all of
16 these transactions can work very much in a way that
17 Jean Ann was talking about, where you don't have to
18 think about which identity or which payment mechanism
19 am I using in which scenario.

20 If you choose to pay by Visa, it is your Visa
21 identity that is used, and you get all the value and
22 benefits from Visa or, who knows, maybe a cell phone
23 provider in some circumstances.

24 There is a lot of new systems coming on the
25 market. Some of them do well.

1 Paul pointed out earlier we have been trying
2 for ages, many of them trying to address some
3 convenience and situations that we can't really
4 accommodate yet.

5 But in the end, I think what it is really
6 going to come down to is falling back to the same
7 sorts of trust mechanisms that we have in place
8 today.

9 Just as a quick aside, an interesting
10 discussion yesterday about advertising, and the woman
11 from Acxiom pointed out that she has been in the
12 business for 30 years and, quite frankly, targeted
13 advertising hasn't changed.

14 Technology has changed. The data level of
15 details have changed, but targeted ads haven't.
16 Sears as a catalogue store became huge because of the
17 trust they provided and the service that they
18 provided, no-question returns.

19 The credit card companies, Mastercard, Visa,
20 Amex and so on, they have gained the trust of their
21 customers. That's a huge added value regardless of
22 the technology being used.

23 MR. BURG: We have one more presentation from
24 devices and systems from James Linlor, Black Lab
25 Mobile, a focus on mobile phones.

1 MR. LINLOR: Good morning.

2 I would like to talk about a couple of
3 details that we have right now. You will see from
4 the slides -- this is actually going to be a drinking
5 from the fire hose presentation so we go through this
6 quickly.

7 Right now there are a number of billing
8 systems that are available as far as carrier billing,
9 and what David mentioned as far as micro payments, we
10 are actually looking at what we call minipayments,
11 which is the range between \$2 and \$200 primarily, and
12 it also can extend beyond that.

13 As far as consumer protections, there does
14 need to be some type of uniform standard, as Jean Ann
15 was mentioning before.

16 Right now what cell phones are primarily
17 being used for as far as payment systems is a lot for
18 ring tones, and some content. There is really no
19 hard goods or tangibles that are being purchased
20 through cell phones.

21 What we developed with Bill My Cell and Black
22 Lab Mobile is to be able to work on existing cell
23 phones. Right now there are over 200 million cell
24 phones. You saw the presentation with Philips.

25 That's a great idea, but also it would be

1 nice and what we have developed is to be able to use
2 your existing cell phone. Wouldn't it be nice to use
3 the phone that you have today to be able to pay for a
4 parking meter, pay for a pizza, buy a movie ticket,
5 get a concert ticket, be able to do all these things
6 with the device that you have right now.

7 There are systems right now that are set up
8 and in place for this. That's I guess one of the
9 things I want people to take away from this series of
10 presentations, is that while the consumer protection
11 is certainly key to this moving forward, that's one
12 we all have to address, the point David made about
13 being able to transfer money person to person, that
14 can be done today using your existing cell phone
15 today.

16 It cannot be done easily in a contactless
17 RFID format, but it can be done using SMS and other
18 technologies.

19 So looking at what we have in place today,
20 there are money transfers, both consumer to consumer
21 and consumer to business. This is in place, it has
22 been around for a couple of years already. The idea
23 of being able to pay for a taxi by calling a phone or
24 sending a text message, and transfer the money to the
25 driver so that their phone shows they received the

1 payment in a trusted fashion, you get a receipt back
2 on your cell phone, and you can print it off from the
3 Web later on.

4 It is a great system. It requires adoption
5 and trust. This is part of what Visa went through
6 when the Visa card and Mastercards were being rolled
7 out initially.

8 It will take time for people to actually be
9 able to have that level of trust.

10 Looking at systems and threats, you should
11 understand the way the systems actually work. There
12 are actually a number of providers, and Bill My Cell
13 and Black Lab Mobile are one of them, and they use
14 what are called short codes. It is an authentication
15 system to be able to use the wireless networks.

16 You use a short code, sometimes an IP address
17 and different types of passwords and others, some
18 mall security methods, to be able to access the
19 wireless network. That in and of itself is now
20 secure.

21 As I mentioned on the slide, there is a false
22 sense of security. They can be hacked. At the same
23 time, those hacks can be guarded against.

24 As the wireless networks are being used more
25 and more for payments and consumer convenience, the

1 wireless carriers also have to step up to the plate
2 and be part of the solution to lock down their
3 networks. And that is not the situation today.

4 Looking at mobile payments and systems of
5 what's going to be coming up, there will be more
6 mobile transactions, more RFID transactions, and RFID
7 and near-field communications will be part of the
8 solution.

9 It is great to see the market looking at how
10 can Visa and Mastercard be rolled out further across
11 the country. The issue becomes point of sale
12 integration. It involves the readers that we are
13 talking about and the cards we are talking about,
14 matching those up so you actually have the card out
15 there or, in the case of that Philips presentation,
16 showing you can swipe your cell phone.

17 If you look at how many cell phones right now
18 are out there and how many readers are out there and
19 how often do the two come together, it is not a lot.

20 If you can use your existing cell phone --
21 and that has been our approach -- it is a whole lot
22 more. What can we do today, I will move on, because
23 you can see on the slide a picture of a car and a
24 parking payment that you can pay for airport parking
25 right now, again, using your cell phone. So you

1 don't need cash to help you find your car later on.

2 Part of this all ties back also to location
3 sensitive and location awareness. And if you have
4 the location awareness, you can do a lot of great
5 things with security, and you are going to be able to
6 provide a lot more consumer benefit by being able to
7 have also different types of advertising, different
8 types of information.

9 The last slide here is looking at some
10 threats. The biggest issue that I see as far as
11 looking at mobile payments and mobile information and
12 even moving into biometrics -- we will be talking
13 more about that today -- is what information is
14 stored where.

15 Right now you have a cell phone, as David was
16 mentioning, and the wireless companies are doing a
17 great job of tracking all this. But it will become a
18 honey pot. Just like right now your credit card gets
19 taken, that becomes a honey pot.

20 In the future, as biometrics are going to be
21 stored, how that is going to be stored will become a
22 big consumer issue, to make sure that information
23 doesn't become a honey pot also.

24 MR. BURG: That's a good segue to an issue I
25 would like to mix up a little bit here, the pervasive

1 issue of security.

2 Some of you may have seen the article in The
3 New York Times recently on this RSA Labs experiment
4 that was done which involved reading information from
5 a contactless credit card through an envelope, and it
6 conjured up the specter of people walking through
7 Times Square with a small device and basically
8 harvesting information.

9 I know Mark MacCarthy from Visa didn't have
10 an opportunity to lay out his security slide. I
11 wanted to see if he could have a go at it from that
12 side and if the discussants and others for the next
13 minute or so could have a go at it from the "we have
14 to be very careful" side.

15 MR. MACCARTHY: The first point is that Visa
16 has taken enormous steps to build security into our
17 contactless product. Mastercard has done it too. So
18 has American Express.

19 The reason is simple. The financial
20 incentives are set up so that if we don't do security
21 right, the product won't succeed. If there is fraud
22 using this product and consumers perceive it in a
23 widespread fashion as unsafe, they don't have to use
24 it.

25 If they don't use it, the issuers won't want

1 to put it out into the market, and the merchants
2 won't want to have it because there aren't enough
3 users to make it worthwhile.

4 This is the kind of thing where the financial
5 incentives seem to be aligned properly. The fraud
6 losses, after all, if they do take place are not
7 borne by the consumer. They are borne by the issuer.

8 If they are too large, the issuer doesn't
9 have to issue the product. It will not succeed in
10 the marketplace.

11 Because of that, we have put in place we
12 think the kind of security protections and safeguards
13 that are reasonably designed to protect against
14 realistic risks of fraud in this area.

15 So we do have encryption. There is 128-bit
16 encryption, triple encryption. There is a counter in
17 the card and a way of calculating a special code that
18 has to be transmitted through the system every single
19 time. It is a different code every single time
20 calculated by the processor on the card.

21 If the information is intercepted in the
22 course of a transaction, it is not information that
23 can be reused for another contactless transaction.
24 It can't be used to manufacture a separate card.

25 In terms of the risks that were pointed out

1 in the study, there are a number of best practices
2 that are building up in the area.

3 First of all, the issuers who are sending out
4 the cards, the best practice is for them to send it
5 out in a shielded fashion so it can't be read. The
6 name of the person that is on the card itself need
7 not be transmitted as part of the transaction to make
8 it work.

9 So the best practice is for that not to be
10 transmitted. So at the end of the day, if there is
11 fraud in this area, there is zero liability.

12 We think that protects people. We have an
13 ongoing monitoring program. We are looking at the
14 levels of fraud in this area. We are comparing it to
15 the overall level of fraud which I said earlier is
16 around 6 cents for every hundred bucks.

17 If we suddenly see that in the contactless
18 world it is 7, 8, 10, 20 bases points, that is clear
19 something is going on.

20 We have yet to see fraud practiced in this
21 area as a result of one of the hacks described in the
22 press. We don't think those are realistic threats
23 that need to be addressed at this point.

24 But it is an issue that we are monitoring, we
25 are looking at it very carefully, and we are prepared

1 to make adjustments as we go forward if the
2 marketplace requires it.

3 MR. BURG: I would like to see if we have an
4 opposing or at least different view on the panel.

5 Let me flag the fact that we are looking at
6 an array of payment mechanisms. It may well be, in
7 fact, it is the case in the credit card area that the
8 issuers or the companies behind them are bearing the
9 risk of an unauthorized transaction. That's part of
10 what the merchant fees support.

11 If you move over to RFID technology using
12 cell phones, if I have an unauthorized billing on my
13 phone bill for goods that I didn't purchase but
14 somebody was able to sniff out the information and
15 use it to make a purchase, where will I be left?

16 MR. MACCARTHY: If the payment mechanism you
17 are using in that context is a Visa card and what is
18 transmitted is Visa information and it goes through
19 the Visa network, you have full consumer protections.

20 If it is a transaction that is provided by
21 the mobile carrier itself, you have no protections.

22 I have had personal experience of trying to
23 work with a mobile carrier to get some redress when
24 my kid was in a download situation.

25 The mobile carriers do not provide redress.

1 If you have a problem with a ring tone provider, they
2 will not solve it for you.

3 I will guess that James is going to have
4 something to say about that. But I wanted to turn to
5 our discussants.

6 MR. TOMASOFSKY: This is fun. I get to
7 decide whether I want to pick on Visa or Microsoft.
8 You usually don't get that opportunity in one room.
9 I think I am going to do Microsoft.

10 Dave, you mentioned security and Microsoft
11 working on security products. And this might be a
12 low ball, but I have to tell you the marketplace, the
13 perception is that Microsoft and security aren't
14 necessarily sort of hand in glove, in particular,
15 with your operating system and your Explorer.

16 I guess we have Vista coming out. We will
17 see what happens there. The perception and the
18 reality I guess is the question. How does a company
19 like Microsoft, who wants to get into more and more
20 of this type of evolving payments, how does it deal
21 with the perception versus the reality?

22 MR. BURG: Let me see if we have a thought
23 with Jean Ann, and then we will have the Fortune 500
24 on this side.

25 MS. FOX: Consumers have a lot of concerns

1 about these new forms of payment. Convenience is, of
2 course, something we value, but it is not the only
3 thing.

4 For example, how do you make the point that
5 you didn't authorize something? There is no
6 signature, it's a contactless use of your credit
7 card, there is no pin if you are using a debit.

8 Now that they are making these cards that
9 will be on your key fob, it is easy to misplace your
10 keys, to set them down, have someone else pick them
11 up, and anybody can walk through a contactless
12 terminal and spend your money.

13 I know it is only up to \$25 at a time, but
14 you can still wipe out a lot of money in a hurry by
15 misusing this.

16 I am be no means a technical wonk, but I
17 understand that folks have been able to intercept the
18 information from the RFID chip on the contactless
19 card without being very close to it.

20 I was interested that Mark talked about the
21 fact that they are going to ship the cards in a
22 sleeve. I guess there will now be a big market in
23 manufacturing billfolds and purses that have a shield
24 so that it is safe to walk around with your cards
25 that have a chip in it that broadcasts to any reader

1 at all times.

2 Other concern we have is about turning your
3 telephone into a billing mechanism, either with the
4 mobile phones or with your old fashioned telephone
5 bill.

6 If you are going to use your phone bill as a
7 credit card, then you need credit card protections.
8 You need to be able to charge back any unsatisfactory
9 transaction, and you need a dispute process.

10 We have gotten the use of phones and phone
11 bills as payment mechanisms way ahead of the consumer
12 protections.

13 MR. BURG: So we have two more presenters. I
14 wanted to give James from Black Lab Mobile and Dave
15 from Microsoft a moment if you want to provide a
16 rejoinder.

17 MR. LINLOR: As far as with Bill My Cell and
18 with different types of mobile payment systems like,
19 there is a pin code involved.

20 Visa is part of one of the systems we use.
21 They are very good at being able to use different
22 types of velocity tracking and other methods for
23 avoiding fraud. For one thing, if it is not an RFID
24 system you can't spend a bunch of money.

25 As far as on the RFID side, I agree with what

1 Mark is saying, that there has to be a reasonable
2 level of protections. I think that with the pin
3 codes, with the type of location information that the
4 risk can be limited. It will never be zero.

5 There will be a learning curve, an adoption
6 curve, and it will be an ongoing process that has to
7 be worked out. But there are reasonable protections
8 right now.

9 The main question is what information is
10 stored, how is it transmitted and, as you are
11 inferring, I don't believe that anything is broadcast
12 around.

13 The way the chips actually work is they are a
14 query-challenge-response. So it is more secure than
15 the impression might be given.

16 MR. BURG: 30 seconds.

17 MR. TURNER: It is a very short answer. The
18 perception does not match reality to the extent that
19 the press likes to play up the issue, not that we
20 don't have some issues, but I think we are better off
21 than it is often represented.

22 I will essentially assert the same position
23 Mark did. If we do not provide systems that are
24 fundamentally secure, we will not be in business
25 either.

1 MR. BURG: We have a poll, I understand.

2 This is going to be on the screen.

3 The question for all of you with your
4 handheld devices is which of the following payment
5 devices would you most like to use to make payments:
6 Number 1 is contactless credit cards; number 2 is
7 your mobile phone; number 3 is fingerprint; number 4
8 is traditional credit card; and number 5 is cash.
9 Actually, A, B, C, D and E.

10 And the winner is traditional credit card,
11 sponsored by Visa.

12 So the third part of our panel discussion is
13 we will look at solutions to concerns about new
14 payment mechanisms.

15 Our first speaker is Mark Kirshbaum,
16 president of Experian Fraud Solutions.

17 MR. KIRSHBAUM: Thank you very much, Elliot,
18 and thank you to the Federal Trade Commission for
19 hosting this session, and thank you for those in the
20 audience in Washington as well as those on the Web
21 for your interest in this subject.

22 I would like to talk briefly about the trends
23 we are seeing and then talk briefly about the tools
24 that are being used to help protect consumers and to
25 ensure that fraud and identity theft is kept to a

1 minimum.

2 First, what is the magnitude of the problem?

3 I throw up a couple statistics for you to see.

4 More than 10 million Americans have their
5 identities stolen each year. More than 80 million
6 Americans have had their personal information
7 compromised since February of '05.

8 And 13 percent of new U.S. accounts will be
9 opened online by 2010, versus 3 percent in 2006.

10 You see the increased adoption of using
11 online as a method for opening accounts.

12 And then lastly, that it's estimated in 2006
13 ID theft losses are \$7.5 billion, and the vast
14 majority of that is being absorbed by financial
15 institutions, as you heard some of the other speakers
16 mention.

17 When you look at these stats, you need to be
18 very careful to understand what is the real meaning
19 behind them. One indication is that 80 million
20 persons who have had their personal information
21 exposed, that actually is very inflated.

22 You need to realize that 26 million of that
23 comes from a Veterans Affairs loss of data, which
24 never led to any compromised data, and another 40
25 million came from card systems, which was later

1 revised downward to around 400,000.

2 Right there you could take approximately 66
3 million of the 80 million out, and you begin to
4 understand what is the real magnitude of this
5 problem, is the data really being used or is there
6 just some lost data that is taking place.

7 What is being done today to protect and
8 prevent fraud? First of all, recent statistics
9 indicate the incidence of ID theft is actually
10 leveling off, if not declining.

11 There was a 2006 Synovate survey, the FTC
12 said ID theft and credit card complaints were each
13 down 19 percent between 2003 and 2005, the message
14 being there are tools being used out there in the
15 marketplace that are actually working.

16 Javelin also says in their report that the
17 number of ID theft victims did not actually increase
18 between 2005 and 2006. I would tell you that the
19 progress is due in large part to greater use by the
20 commercial sector of third-party fraud scoring models
21 and other technology solutions, including neural
22 networks.

23 I would also say that consumer awareness and
24 proactive monitoring is important. Those who take
25 the opportunity to regularly monitor their credit as

1 well as review your bills and make sure the charges
2 you see are actually made by you and also financial
3 institutions utilizing data, analytics and software.
4 Their motivation is to protect their customers.

5 As you heard before, if the customers are not
6 willing to adopt the technology or do not feel safe,
7 they will move to other methods.

8 Also, the institutions are interested in
9 managing and reducing their losses and their risk
10 and, of course, complying with laws because there are
11 laws that must be complied with in this market space.

12 When you look at the tools that are used for
13 the authentication space, it really boils down to one
14 simple thing. You want to make sure that the person
15 is who they say they are, period.

16 There are authentication factors and
17 conditions, properties or parameters that can be
18 independently tested to confirm that someone is who
19 they say they are. It can be based on something you
20 have, something you know or something you are.

21 You can see from the list up here that there
22 are different methods of this. Something you have
23 could be a card, a token, a phone number or an actual
24 machine credential.

25 Something you know, think about the password

1 that's in your head, the answers you might have to
2 specific questions that you are most likely to be the
3 one to have the answers to, or it might be your
4 Social Security number.

5 Or something you are. This is where you get
6 into the space of biometrics, and I will talk about
7 this in a second.

8 One of the ways to increase consumer
9 protection through authentication is to actually
10 leverage multiple factors of authentication through a
11 combination of things that you have, things that you
12 know or things that you are.

13 You can see a couple combinations here. As
14 you will see, you could be using a combination of
15 your card with a pin. Of course, you can use that
16 online, over the telephone or other methods.

17 You could use a combination of your employee
18 ID and a token. You could use an account number and
19 a user password.

20 And you can see as you get into more stronger
21 methods of authentication you can actually use what
22 is called knowledge-based authentication or multiple
23 choice questions and your fingerprint. Again,
24 looking at a combination of these make up what is
25 called multifactor authentication.

1 I will just mention briefly a couple last
2 points. Quality data is key. It is incredibly
3 important that the data come from reputable sources
4 and that we have more information, not less
5 information, that will actually tie an individual to
6 their method of payment and to who they actually are.

7 We need to leverage-share data. That equals
8 the best practices and provides the ability to view
9 intra and intercompany data and to protect consumers.

10 The science of analytics and fraud scoring,
11 fraud scoring models are used with data to determine
12 the relative risk. These are not meant as a last
13 point to make a decision as to whether you are going
14 to get a card, whether a payment is actually going to
15 go through, but it is a warning mechanism that can be
16 used to perhaps do further authentication.

17 Thank you.

18 (Applause.)

19 MR. BURG: So in a way we are going to circle
20 back now for a moment to the world of automated
21 clearinghouse payments that Jeanne Hogarth talked
22 about.

23 Elliott McEntee is the president and CEO of
24 the National Automated Clearinghouse Association,
25 NACHA, and he is going to talk about a program to

1 change the way these bank debits are authenticated.

2 MR. MCENTEE: Thank you, Elliot. The first
3 thing I want to say is you have a wonderful first
4 name.

5 Good morning, ladies and gentlemen.

6 I want to thank the Federal Trade Commission
7 for, number one, putting on these important and,
8 number two, for inviting me to participate.

9 My primary objective this morning is to share
10 with you some exciting news. The banking industry is
11 working on a new product that we think will help
12 solve one of the products that we discussed here up
13 to this point, and that is the possible inadvertent
14 disclosure of account information.

15 We are working on a product that I will share
16 with you some of the details in a couple minutes on
17 how a consumer could make a transaction over the
18 Internet, whether it is the purchase of goods and
19 services, to pay your bill, to pay taxes, to pay a
20 parking ticket to a government agency or transfer
21 funds to another entity, make all those transactions
22 without ever disclosing the account information to
23 any party involved in that transaction.

24 Before I do that, let me briefly describe
25 what my organization does, NACHA. You have heard of

1 Visa and MasterCard. We are the banking industry's
2 equivalent to Vista and Mastercard for ACH
3 transactions. The best known of these transactions
4 is direct deposit.

5 I'm assuming that virtually everyone in the
6 audience today gets paid by direct deposit. If you
7 don't, please see me at the end of the session. I
8 will try to sign you up.

9 What we do is we write the operating rules,
10 much Visa does for their transactions for direct
11 deposit. One of our rules, for example, requires the
12 financial institution to make the funds available on
13 payday at the opening of business, which is far more
14 comprehensive than the protection you find in other
15 federal consumer protection regulations.

16 We also work with banks to develop new
17 products. I will be talking about one of those new
18 products in a minute.

19 One of the real keys to acceptance of a new
20 product -- and it was mentioned by several panelists
21 before -- is consumer acceptance. And you don't get
22 consumer acceptance unless you have consumer
23 protection. The consumer has to feel comfortable in
24 using that product or it is going to fail in the
25 marketplace.

1 What's the problem today with Internet
2 payments? There are hundreds of millions of payments
3 made every year over the Internet.

4 The big problem as far as we are concerned is
5 the consumer must disclose sensitive account
6 information. That could be a credit card number. It
7 could be a debit card number or could be their
8 checking account number.

9 They may have to disclose that to a merchant
10 if they are buying something, to a biller if they are
11 paying a bill, to a government agency, like I paid a
12 parking ticket in Washington, D.C. online with a
13 debit to my checking account. I had to disclose to
14 the District and the third party that processed the
15 transactions my checking account number.

16 I must admit I was a little bit nervous doing
17 that, even though there is lots of consumer
18 protections if there is a problem. The concern is
19 when a consumer discloses this information to parties
20 they don't really have a lot of confidence in, they
21 don't do a lot of business with, there is a
22 possibility the account numbers could be compromised.

23 Everyone has read stories about millions of
24 account numbers that have been compromised as hackers
25 have gotten into computer systems operated by

1 merchants or, more commonly, into systems operated by
2 third parties.

3 Visa, Mastercard, NACHA, we have stringent
4 rules on how that data is supposed to be kept secure.

5 On occasions the merchants and third parties
6 do not follow those rules. Hence, the numbers are
7 compromised. It leads to a very negative consumer
8 reaction. It may lead to terminate the fraud.

9 The banking industry will make the consumer
10 whole, but the consumer feels very uncomfortable.
11 They might feel violated that someone went into their
12 account and used their account when they were not
13 authorized to do that.

14 What's the solution to this problem? We
15 think the solution is to develop new product, and we
16 are working on developing such a product that would
17 allow the consumer to make purchases, pay bills,
18 transfer funds online without ever disclosing your
19 account number information to the merchant, biller or
20 any other party.

21 I will show a demonstration in one minute.
22 Let me just tell you what you are going to see on
23 that demonstration.

24 Now, I understand that people that are
25 participating on the Web, they will not be able to

1 see this demonstration. But they can link on to this
2 Web site and they will be able to follow the
3 demonstration on the Web site.

4 A consumer is going to purchase some CDs at a
5 Web site called Maestro Music. They will check out
6 like they normally check out. Instead of selecting
7 the normal payment instrument, they will select
8 something called PIP, or payment in private.

9 The consumer will be redirected through a
10 secure network to their bank. The consumer then will
11 be logged in to the home banking system at their
12 bank, and then the consumer will be authenticated by
13 the bank, and the consumer then would authorize the
14 transaction.

15 Now, while that is all taking place, the
16 network that is moving the consumer back between the
17 merchant and the bank has no information, does not
18 see the transaction at all. That's the same thing
19 with the merchant or the biller or any other third
20 party.

21 That do I no see the exchange that's going on
22 between the consumer and the consumer's bank.

23 If we can show the demonstration now. This
24 will take about 25 seconds. But in reality, it only
25 takes about 10 to 15 seconds depending on how fast a

1 consumer can click through this.

2 The consumer is now clicking out. You will
3 see at the top of the screen it is PIP, this new
4 payment instrument. They will select Gardiner
5 Savings Bank which is a small bank in Maine. They
6 will be directed to Gardiner. And that's the
7 president of Gardiner Savings.

8 They are putting in their user ID, their
9 password. All the banks are in the process of
10 upgrading their authentication systems today. They
11 will now submit the information.

12 The bank will authenticate the customer. The
13 information is now moved from the Web site of the
14 merchant to Gardiner Savings Bank telling about the
15 purchase itself.

16 In this case, the consumer selected to pay
17 out of the savings account. They will authorize the
18 transaction, and now they will be redirected back to
19 the merchant's Web site. It takes about 12 to 15
20 seconds.

21 Again, there is no information made available
22 about the account number to the merchant, their
23 network or any other third-party processors.

24 We have done a lot of consumer focus research
25 on this, and there seems to be a high comfort level

1 with consumers, at least when we discuss this with
2 them in focus group interviews.

3 A pilot test involving a couple dozen banks,
4 a lot of merchants and billers will start in July of
5 next year.

6 One of the keys is we will be evaluating
7 consumer acceptance. Will consumers use this new
8 technique, will merchants and banks feel comfortable
9 with it. A decision will be made sometime in the end
10 of 2008 probably whether we will go forward with this
11 and launch this product nationwide.

12 Thank you.

13 (Applause.)

14 MR. BURG: We will turn briefly to the
15 subject of biometric payment systems.

16 Marc Kirshbaum is going to show a slide on
17 the screen and Elliott will discuss the application
18 of some of those solutions.

19 MR. KIRSHBAUM: Just a brief overview for you
20 of the different methods of biometrics, and they are
21 categorized in three ways. There is genotypic, which
22 is basically genetics.

23 These are ones you might think of naturally
24 as your voice, fingers, hands and facial geometry.
25 By the way, some of the stuff gets really fun because

1 odor is one of the methods of authentication.
2 Believe it or not, we all have our distinct smell.
3 Some will deny it.

4 Behavioral is the second method. These are
5 things that are trained. They are things such as
6 your signature, the keyboard strokes, the spaces in
7 between your strokes on the keyboard. And one of my
8 favorite ones is your gait. If anyone is a Monty
9 Python fan, the Ministry of Silly Walks, everyone has
10 their own gait, and believe it or not try to get into
11 the checkout line at the supermarket and show them
12 your gait.

13 The third is randotypic or phenotypic, which
14 is random variations that are developed when you are
15 a child. These include some of the more traditional
16 ones, such as fingerprint, iris or retina scan or
17 vein.

18 And still one of my favorite genotypic ones
19 that I doubt will be adopted is actually DNA, where
20 each time you go and buy that CD, just prick your
21 finger, drop a little blood on the computer, and you
22 will be authenticated.

23 So who is using biometrics today? Obviously
24 the government is a large adopter of some of these
25 methods that might not be scaleable down to the

1 consumer level. And also end consumers are using it
2 through trusted organizations directly.

3 I want to mention lastly that the ability to
4 use biometrics is completely contingent upon
5 authenticating the individual at the enrollment
6 point. If it is garbage in, it's garbage out. You
7 have to make sure the person who is actually
8 enrolling is who they say that are.

9 MR. MCENTEE: Thank you, Marc.

10 There is actually a real operating system
11 today in several supermarkets around the country.
12 You can go in and enroll in one of these systems.

13 Pay By Cuts is the name of the most popular
14 one, where you leave a fingerprint scan when you sign
15 up at the supermarket, and you give the supermarket
16 your credit card number or credit card number, and
17 then when you want to make a purchase, you just roll
18 your index finger across a reader. It then scans the
19 finger, and if it gets a match, it then authenticates
20 the customer and allows the customer to go ahead and
21 make the purchase.

22 It is not a real payment system in the true
23 definition because the payment system behind that is
24 really either Visa, Mastercard or the ACH network.
25 It is a means of authentication.

1 I don't know exactly how well it is working
2 in terms of consumer adoption. I know one of the
3 concerns that have been expressed by some people is
4 that all the credit card, debit card and checking
5 information is maintained by this third party. There
6 is some concern about that.

7 But that's basically the most popular way
8 today of a biometric technique being used in the
9 payment system.

10 MR. BURG: There was one other solutions area
11 that we were going to cover. Tom Keithley from I4
12 Commerce isn't here to do that.

13 James Linlor and Elliott McEntee agreed to at
14 least say a few words about third-party billing
15 mechanisms.

16 MR. LINLOR: There is a system, for example,
17 called Bill Me Later where you can sign up on the
18 Web, and the whole idea is again to be able to hold
19 the information, similar to what NACHA was
20 describing, in another location, to be able to use
21 the location, IP address or whatever else and some
22 type of small goods delivery so that there isn't as
23 much risk.

24 You are not delivering a credit card number
25 or having someone type in a credit card number. You

1 are basically setting up a type of online referral
2 billing account. That's what I understand Bill Me
3 Later to be doing.

4 The one thing to mention with biometrics and
5 I know pay by touch and other systems, they had a
6 thing in the newspaper yesterday about having school
7 kids out in California pay for their school lunches
8 off their fingerprints which is fundamentally
9 something that I like the idea.

10 But the problem with biometrics is the
11 backend system and the honey pot. Once the
12 information gets disclosed, I can get a new Social
13 Security number, but I will not cut off my finger.
14 That's the problem. Once it gets disclosed, once it
15 is out there, now you have a real problem, and the
16 backend systems are not clearly locked down.

17 MR. BURG: Elliott, did you have something?

18 MR. MCENTEE: I will repeat, well, you have
19 10 tries. I wouldn't advise that, though.

20 MR. LINLOR: You have 20 if you take off your
21 shoes.

22 MR. MCENTEE: Most of the third-party bill
23 systems work pretty much the same way.

24 They are in business to authenticate the
25 consumer to the merchant or the biller, and then they

1 use the background, the Visa, Mastercard or ACH
2 system for processing the payments.

3 I think the honey pot analogy you used is a
4 great one. Instead of disclosing the information
5 across perhaps hundreds of merchants and third
6 parties, you are concentrating all in one place. We
7 do know that makes some consumers uncomfortable to
8 focus all their account information in one location.

9 MR. KIRSHBAUM: There are other methods of
10 biometrics, including voice.

11 One of the intriguing aspects of voice is it
12 is a little harder to steal and the technology is
13 good in terms of authenticating. You give them a
14 voice sample. You might say "1, 2, 3, 4," and each
15 time you use your method of payment or want to
16 authenticate using your voice, there is nothing to
17 even remember because they change what is presented
18 to you.

19 So the next time they might say "please
20 repeat 7281." So it is hard to lose, it is hard to
21 steal, and it is not something that can be lost.
22 Some of these methods might be more effective than
23 actually once your finger is compromised, it is
24 compromised.

25 MR. BURG: We have about four minutes left.

1 I would like to make a couple very brief points and
2 see if anybody has a closing remark.

3 From a consumer protection standpoint,
4 because that's what I do for the State of Vermont and
5 with other state offices of Attorney General, it
6 seems to me that among all the things that have been
7 spoken of here in addition to private sector
8 initiatives behind these payment methods and systems,
9 there are at least three things that we should be
10 doing.

11 One is we should be taking a look pretty
12 aggressively at what the experience, what the track
13 record has been overseas.

14 In addition to Australia -- and, again, I
15 don't know what exactly the story was there because I
16 couldn't hear it -- but some of these payment methods
17 are, if not mature, they are often used in countries
18 like South Korea and Japan and the Philippines, and
19 it would be worth taking a look at the track record
20 on acceptance, breach of privacy.

21 The cultures are different. So there may be
22 a higher level of acceptance on some criteria. But I
23 think we have a track record that we can look at
24 there.

25 Secondly, I think that government, both state

1 and federal, need to look at the harmonization issue
2 that Jean Ann Fox mentioned.

3 I think right now, without adding any of
4 these new systems, consumers, at least people who are
5 not lawyers in this field, are completely confused by
6 what their protections are, what happens if there is
7 an unauthorized purchase, what happens if there is a
8 theft, what happens if there is a claims and defense
9 situation, where if you buy something and it doesn't
10 get delivered, you are protected.

11 So I think we need a grand unified theory
12 here of procedure and substantive rights. That would
13 be something good for government at both levels to
14 work on.

15 And then, finally, there are a lot of people
16 out there, maybe more in Vermont, but there are a lot
17 of people out there that in terms of financial
18 literacy are not extraordinarily sophisticated.
19 There are a lot of sophisticated people there. We
20 have the unbanked. We have rural folks that don't
21 have Internet access.

22 It would be great to see some kind of
23 private-public partnership around the issue of
24 consumer education.

25 Right now Western Union is funding a program

1 through the AARP Foundation which is educating
2 consumers through a calling center approach on the
3 dangers of wiring money to strangers, for example, in
4 response to a counterfeit check scam or a
5 telemarketing call.

6 It seems there is room for a lot of
7 collaborations like that because the state of
8 knowledge in this area is pretty low.

9 With those thoughts, any last remarks?

10 MR. MACCARTHY: On the data security stuff,
11 we think we need to have a federal bill there to
12 provide protections. Our biggest worry there is
13 merchant and processor hacks.

14 Our biggest message to merchants and
15 processors is don't save it if you don't need it.
16 Don't save the security code. If you don't need it,
17 don't save it.

18 On the grand unified theory, we think that's
19 a great idea.

20 What was the last one?

21 MR. BURG: Consumer ed.

22 MR. MACCARTHY: We have something called
23 practical money skills for life. If there is a way
24 of working with you guys at the state or federal
25 level, we will play.

1 MR. BURG: Jean Ann.

2 MS. FOX: We need to be clear about the point
3 of who is doing the protecting.

4 We appreciate NACHA's rules are better than
5 they are under the Electronic Funds Transfer Act and
6 Visa, Mastercard may offer zero liability in some
7 situations for transactions.

8 But for consumers to really have confidence
9 in the payment mechanisms that they are using, we
10 need law and we need private right of action and we
11 need enforcement in order for this to go forward to
12 everybody's benefit.

13 MR. BURG: Thank you.

14 MR. TOMASOFSKY: It would be interesting to
15 come back in five and 10 years and sit down with the
16 same panel and ask where their products are then.

17 Part of the comment I made earlier is the
18 business model, the adoption curve, what is the
19 compelling reason why consumers should use this
20 product.

21 We talked about six or seven bases points of
22 fraud built into the system, if you will. The system
23 is happy, not happy but we should at least be able to
24 support that from a business model standpoint. If
25 that stays the same, why do we need all these things?

1 We saw 39 percent of the audience here would
2 prefer to use their plain old credit card.

3 MR. LINLOR: Just on the adoption method and
4 coming back in five years, that would be very
5 interesting.

6 Adoption in Korea, for example, LG and other
7 manufacturers are making a cell phone that has a
8 fingerprint reader on it so you can use multifactor
9 authentication. There is more adoption in Japan so
10 you can pay for a Coke or Pepsi by swiping your phone
11 near the machine.

12 In South Africa and other parts of Africa,
13 you are use your cell phone for banking transactions
14 because the local culture adopts that. In Sweden and
15 other Nordic countries you can use it to pay for
16 parking.

17 So the adoption around the world has been
18 great. The U.S. is actually the lagging group in
19 this whole picture, which is an interesting item.

20 MS. HOGARTH: From a federal perspective, I
21 have to say while it is desirable to have consumer
22 protections, I think Jean Ann is exactly right.

23 We have been in a reactive stage rather than
24 a proactive stage because in part -- and this is a
25 cop-out, but remember I'm not speaking for the Fed --

1 you don't want to stifle innovation and creativity.

2 So it is a real two-edged sword. How do you
3 foster creativity and innovation and at the same time
4 provide some degree of consumer protection?

5 MR. BURG: This was a wonderful panel. I
6 really enjoyed this. Thank you all.

7 (Applause.)

8 (Break and Technology Pavilion.)

9 MS. MULLIGAN: Good morning. We are going to
10 continue right now with our panel on new products and
11 new challenges.

12 To lead off the session, we are going to
13 start with Commissioner Kovacic.

14 COMMISSIONER KOVACIC: I want to extend my
15 own welcome on behalf of the FTC to all of you here
16 and to thank, again, George Washington University and
17 its law school for its generosity in cooperating with
18 the presentation of the program.

19 When we go back through the now nearly full
20 century of Federal Trade Commission experience with
21 consumer protection matters, a recurring theme that
22 runs through many of the discussions of the
23 Commission's work is a concern that the agency lacks
24 the ability to stay abreast of the current
25 developments in technology and commercial

1 relationships that affect its ability to carry out
2 its work.

3 What's wonderful about the program that's
4 taking place this week is this is a conscious policy
5 response to stay in a position to make sensible
6 judgments about the appropriate direction of future
7 policy.

8 What I would like to speak about today are
9 how new product development measures affect policy
10 issues within the jurisdiction of the FTC and to talk
11 about implications, not simply of developments in
12 digital technology, but other rapid developments in
13 technology that affect the way we do work and to talk
14 about possible policy responses. And in doing this,
15 I'm speaking on my own behalf and not necessarily on
16 behalf of my colleagues. Like Francis Albert
17 Sinatra, I will be doing it my way today.

18 First, to simply consider the general
19 phenomena that the Commission faces and other policy
20 institutions face in making decisions about how to
21 design consumer protection policy, and what we have,
22 at least keyed up in many discussions in policy
23 making, is a basic mismatch between the rate of
24 technological development on the one hand and the
25 capacity of the institutions through which policy is

1 implemented to adapt in time.

2 And in many respects, I think one of the
3 greatest challenges for our agency is to adapt
4 institutional arrangements to put us in the position
5 to respond to policy changes.

6 Our policy framework in the institutional
7 arrangements tend to be somewhat sticky in the way in
8 which they evolve. And by contrast, the technology
9 developments tend to be comparatively more fluid.

10 A particular dilemma we face is that often
11 the impetus to change the institutional framework
12 tends to be crisis. A difficulty with crisis is
13 somewhat like going to a casino. When the wheel of
14 institutional change is spun, sometimes you win, but
15 sometimes you lose grievously as well.

16 And in part, what these hearings are
17 attempting to do is to put in place a base of
18 knowledge that permits us in a far more deliberative
19 and I think sensible way to make adjustments that are
20 not simply triggered by the fact of crises alone.

21 Let me talk about several phenomena that
22 result from the fact of technological change, some of
23 them in many respects quite positive for consumers,
24 some being far more threatening.

25 I want to start with the example of serious

1 fraud. One of the disadvantages of the fact of quick
2 changes in technology and the nature of technology is
3 that the possibility for serious fraud has been
4 magnified.

5 For all of the wonderful things that new
6 technology discussed in these sessions does, there
7 are some adverse consequences, perhaps the most
8 strikingly, as discussed by other panelists this
9 week, is the cost of committing serious fraud has
10 fallen dramatically.

11 In the old day, you had to use the flow
12 technology to reach potential victims. Now it is far
13 cheaper to do so. Many more messages can be sent in
14 a much shorter period of time. The cost of entering
15 the business of serious fraud has fallen
16 dramatically.

17 Many of the participants in this process are
18 in many senses quite attuned to the vulnerabilities
19 of the enforcement process. They are highly
20 proficient technologically.

21 A great challenge for us is to hire our own
22 technologists to offset them. They are
23 geographically adroit. They operate in a truly
24 global environment. And we have discovered they are
25 quite adroit at identifying the seams in the

1 enforcement process and putting great pressure on
2 those.

3 Many of them have no concern for reputation
4 at all. That is, in the firms we deal with, we
5 really deal with two baskets of firms, one very
6 legitimate firms, concerned with reputation. But the
7 gravest threat to us in many respects are firms or
8 individuals who have no concern for reputation at
9 all. Again, what they try to do on a regular basis
10 is to exploit vulnerabilities in the system of
11 enforcement.

12 The effect on the obligation of legitimate
13 firms changes with the changes in technology. And I
14 will use the example of data security.

15 The great marvel of the modern system has
16 been that the adjustments in question permit expanded
17 and accelerated flows of data within and across
18 individual firms and certainly within and across
19 individual jurisdictions.

20 The fact of technological change I think
21 poses a number of dilemmas for firms deciding what
22 level of practice and precaution taking is
23 acceptable.

24 To use the example of data security now is
25 the fact that encryption in a variety of ways is now

1 more readily available imposes an obligation on firms
2 to adopt encryption approaches as a way of
3 forestalling those who would engage in serious fraud.

4 In thinking about the appropriate level of
5 due diligence where firms carry out mergers and
6 acquisitions, is there a much more elaborate duty on
7 their part to engage in a careful examination of the
8 security protocols and suitability of the acquired
9 firm as a condition of going forward with an
10 acquisition and assimilating the firm's operations
11 into its own.

12 A second concern simply involves the
13 consequences of product complexity. A recurring
14 concern on our part is whether we have the capacity
15 institutionally to understand some of the
16 developments that are taking place.

17 That is precisely why, among other steps, we
18 are holding these proceedings this week. One of the
19 great innovations of Commission policy making in the
20 1990s was the deliberate decision under Bob
21 Petofski's inspired leadership to devote substantial
22 resources to the simple process of stepping back and
23 learning and understanding what's taking place.

24 One of my academic colleagues, Peter Swire,
25 offered the very wise advice to me over the past few

1 years in many conversations, that in policy making in
2 this area, it is very possible to make serious errors
3 by doing both too much or too little.

4 Peter's exhortation in many respects was to
5 suggest what is indispensable to making good
6 judgments is to take the care and use the time to
7 make an accurate diagnosis of what's taking place.

8 From the consumer's point of view, the fact
9 of ever more elaborate and complex technologies
10 offers both the possibility of wonderful products and
11 services, but it also places great demands on their
12 capacity to understand precisely what the new
13 technology does, both in understanding the
14 representations made in marketing and advertising
15 about specific products or services, and it magnifies
16 in many ways the role of intermediaries, guides who
17 can navigate consumers through the array of choices,
18 the complex array of choices that they face.

19 Indeed, it points -- particularly for matters
20 of quality control, product design, it places a
21 premium on developing sensible policies that allow
22 firms to exchange information across borders, across
23 subsidiaries that identify possible flaws in product
24 design, especially for product repair mechanisms to
25 make judgments about how product design ought to be

1 adjusted.

2 A further institutional complication is what
3 I call the policy archipelago. In the United States
4 and many other jurisdictions, policy making decisions
5 are fragmented across an array of institutions.

6 In the U.S., we not only have an array of
7 institutions that deal with the civil side of policy
8 making, but in the case of serious fraud, power is
9 shared with those with the power to prosecute
10 criminally.

11 It is a consequence of the archipelago, not
12 simply at the federal and state level with attorneys
13 general and consumer protection departments, where
14 public institutions deal with each other, there are
15 many occasions in which we have sent boats across the
16 archipelago to land on other islands, only to be
17 repulsed by the inhabitants of those islands, who
18 fight back with the vigor that surpasses that which
19 you would see with the private actors who we try to
20 regulate from time to time.

21 Internationally one encounters perhaps the
22 same phenomenon. If you go back to my earlier slide
23 about the manner in which policy making takes place,
24 certainly for serious fraud, if those cooperative
25 relationships are failed and are not made stronger,

1 those committed on serious misconduct simply always
2 stay several steps ahead.

3 The fact of policy making fragmentation has a
4 number of consequences. Not only do we have broadly
5 distributed authority but in many ways we are beset
6 with regulatory anachronisms.

7 We still labor at the FTC under an exemption
8 for common carriers that was set in place many
9 decades ago when you had a single telephone company,
10 and the thought was why not have a single regulator
11 to take care of its needs from time to time.

12 Whether we are talking about communications,
13 financial services or any number of areas, we still
14 labor under regulatory structures that were
15 established suitable to an industry configuration
16 from sector to sector that may have been appropriate
17 in the early or mid 20th centuries but are no longer
18 appropriate. And the dilemma is that the
19 institutional arrangements have not been upgraded as
20 the technology in the industry has changed.

21 As a result, we have highly imperfect
22 cross-agency cooperation among federal bodies,
23 between federal and state bodies and across borders.
24 An enormous challenge on our part is to provide the
25 synapses and relationships which the legislative

1 arrangements themselves provide with no explicit
2 coordination mechanism.

3 A last challenge I want to emphasize is the
4 challenge to build knowledge within our agency,
5 within other agencies with related responsibilities
6 to build a better understanding of the technology in
7 question, hence the proceedings that are taking place
8 this week, to engage in a conscious process in what I
9 would call policy research and development, studies
10 of individual technological developments and
11 commercial phenomena, ex-post assessments of the
12 enforcement matters to be brought.

13 This involves taking some percentage of our
14 resources every year as part of the feedback loop
15 that informs operational decisions about enforcement
16 to learn about the industries in question, to not
17 measure our performance simply by the number of cases
18 we bring, the number of rules we promulgate, but to
19 take time consciously and assess the quality of what
20 we are doing and to understand the industry.

21 We are precisely in the position of a
22 business enterprise whose success depends critically
23 upon doing research and development. You can't
24 imagine a successful pharmaceutical company that has
25 an R&D budget over time of precisely zero.

1 We have to have a continuing investment in
2 building our knowledge and making adjustments in our
3 own human capital, where we don't simply hire
4 attorneys and economists, but we hire technologists
5 whose specialization lies in exactly the
6 technological fields that we are being asked to
7 master.

8 There is a need to continually improve our
9 own procedures and investigative processes, which the
10 agency has done dramatically from the time I first
11 set foot in the FTC in 1979 to the present date,
12 using a knowledge base in place to respond quickly
13 when crises come, to have done the research ahead of
14 time so that we are not running behind the crises
15 trying to figure out what took place.

16 Because we will be asked to make responses to
17 legislators and other policy makers almost
18 instantaneously. If we have done our homework
19 beforehand, we are in a position to offer sensible
20 answers the their concerns.

21 Some of the possible policy responses, more
22 effort I think to punish serious fraud, which the FTC
23 has engaged in, to avoid the dangers that the new
24 technologically complex and progressive marketplace
25 does not become a market for lemons, to engage in

1 expanded cooperation at home and abroad, as I said
2 before, to invest more in building knowledge and
3 critically to improve what I fear is the increasingly
4 outdated legislative and statutory platform on which
5 we operate.

6 This is why adoption of the U.S. Safe Web
7 legislation is so critical in converting what is a
8 fairly rutted two-lane highway into a fully divided
9 four-lane expressway over which our programs can flow
10 over time, to pursue changes and reassessments in the
11 mix of skills with which we work, and to pursue
12 greater integration between our competition and
13 consumer protection, disciplines within the FTC.

14 My basic message about the entire path of
15 policy development is to emphasize the close
16 relationship between institutional design and
17 substantive performance.

18 Simply put, the quality of the institutional
19 arrangements through which we provide policy deeply
20 affects the substantive quality of what we do. There
21 is a great tendency when we talk about policy making
22 to focus precisely on what I focused as an academic
23 on in the classroom, the developments in doctrine,
24 the substantive theories imparted to us by
25 legislative commands, and too little effort devoted

1 to asking how's it going to be implemented.

2 Consider the following example. If I were to
3 ask you would you like to go see Beethoven's Ninth
4 Symphony tonight, you might ask who's playing.

5 If I told you it was a middle school ensemble
6 that's long on enthusiasm, short on experience, you
7 would find a way to decide to rearrange paperclips,
8 pencils and other items in your desk drawer and
9 possibly to read through old issues of the classified
10 adds just to make sure you are on top of developments
11 in the marketplace. But if I told you it was the
12 Vienna Philharmonic, you would ask when and where.

13 In short, judgments about what agencies ought
14 to do, should be doing can't possibly take place
15 without a careful assessment of the capacity of the
16 institutions to deliver the policy.

17 In this respect, I think it is a mistake to
18 talk about best practices. To speak of best
19 practices suggests a finite destination that once
20 achieved needn't be reconsidered.

21 Given the fluidity of change in this
22 instance, we are engaged in the continuing pursuit of
23 better practices.

24 Indeed, for all of us, the best practice is
25 the relentless chase for better practices. Thank

1 you.

2 (Applause.)

3 MS. MULLIGAN: I would like to thank
4 Commissioner Kovacic for a wonderful setup for this
5 panel, which was supposed to be opened,
6 unfortunately, by Andy Moss from Microsoft Research.
7 He is not here.

8 So Tom Jacobs from Sun Microsystems will step
9 in to fill his place to give us a little bit of a
10 technical background on what exactly DRM is.

11 MR. JACOBS: I think the best way to think
12 about DRM is that it is intended as a technology for
13 managing the rights for which people will want to use
14 content.

15 There are many different ways in which DRM
16 systems are being used. We are here obviously
17 talking about consumer purposes.

18 That typically lends itself to talking about
19 music or entertainment, about data types, but the
20 same sort of technology is and will be used for the
21 protection of your financial records, your health
22 care information.

23 What DRM is intended to do is be a means by
24 which either you or the providers and managers of
25 your information will protect that data and either

1 provide access or deny access to that data. And they
2 can do this by using cryptographic methods, as was
3 described just a little bit earlier. It can be
4 multi-key methods. It could be simply through
5 watermarks.

6 Technology that we have learned about over
7 the many years going back to protecting printed works
8 is also being used. Rather than encrypting content
9 with complex mathematical processes, you are simply
10 overriding images that you can't actually see.

11 That's a way of making things easy to move
12 around but you are not using that particular
13 technology. There are also copy protection
14 technologies where you put content out there and by
15 definition you would be able to copy it once or copy
16 it never. One example is the broadcast flags, a type
17 of technology that made its way into legislation.

18 But there are many different means. The best
19 way to think about this is when you turn on your
20 cable television service, there is a rights
21 management system associated with that. It is called
22 the Conditional Access System. It is primarily
23 designed for instantaneous use or denial of use of a
24 service.

25 If you have an iPod or one of the consumer

1 electronic devices, those are using rights management
2 systems which will allow you to use the content on a
3 particular device for a certain period of time for a
4 certain number of views or listens to a piece of
5 content. These are all different methods by which
6 DRM systems come about.

7 There are a number of standards that have
8 come about in the past five to six years, some of
9 them through the ISO community. There has been quite
10 a number of troubles that have come about because of
11 patents around this space. In fact, some industries,
12 particularly the mobile industry, has chosen to not
13 even deploy because of the costs associated with this
14 technology.

15 So I hope that's a little bit of a brief
16 overview.

17 MS. MULLIGAN: So we have been joined by
18 Andy. I was going to suggest we give you a few
19 minutes to elaborate on the technical aspects of DRM
20 since that was supposed to be your slide. I had to
21 take it all away from you since you are here.

22 MR. MOSS: Run in place, miss the opening and
23 you are irrelevant.

24 One of the things to think about with DRM is
25 to put it in context. Like many new innovations, new

1 technologies, often when it first hits the scene, it
2 is misunderstood. It is either hailed as the silver
3 bullet that will solve all problems or a scourge on
4 humanity and is going to curse us to the dying day.

5 It is neither, obviously. What DRM really
6 is, it is just a tool, like any other technology.
7 Cars are tools for transportation that can be used to
8 speed people away from accidents in emergencies or to
9 help people get away from a crime scene.

10 It doesn't make the car bad. It just means
11 the use of it is for good or for ill. DRM is very
12 much the same way. What it does, what it is intended
13 to do is give people choices.

14 I think when thinking about DRM -- I missed
15 the opening. Perhaps you have gone through this
16 already. There are a wide variety of things that go
17 under the banner of digital rights management or copy
18 prevention.

19 I think it is important to understand some of
20 the distinctions as well.

21 When content protection technologies first
22 started to hit the scene, they tended to focus on
23 sort of prevention and limiting flow as a way to give
24 copyright owners and content distributors a means to
25 sort of control where they went a little bit more.

1 As we have gotten better at thinking about
2 this digital world that we are all living in and
3 trying to figure out how to make work for ourselves
4 as consumers and technology providers, digital rights
5 management has evolved to the place where it is less
6 about inhibiting flow and more about enabling access.

7 The best way to think about this is not so
8 much from big media protected but as you look
9 forward, where are we going to be in five years and
10 10 years from now.

11 User-generated content is all the buzz today.
12 What that really is all about is technology is
13 driving down and declining the costs associated with
14 creating and distributing content, which means more
15 people are going to be in the position of wanting to
16 make the choices about the content that they are now
17 creating.

18 Digital rights management is the tool that
19 they can choose to use or not to apply to a content
20 they are creating so they can have a choice about
21 where and how it gets distributed and under what
22 terms and what conditions.

23 They have some sort of control over the
24 content that they are investing in creating. So from
25 a technology perspective, it is being used in a lot

1 of places today, everything from -- a variety of
2 content protection technologies are used today, many
3 of which you don't see. That's the best form of
4 content protection.

5 A lot of people aren't aware they have been
6 on DVDs for many years. There are a lot of examples
7 where it has been used effectively. There have
8 obviously been plenty places where it has been used
9 less effectively.

10 I will leave it with the thought going
11 forward that keep in mind when you are thinking about
12 digital rights management -- I heard some of the
13 examples around broadcast flag and some of the
14 others -- we are early in the stages of this digital
15 evolution.

16 This is very early on in our learning process
17 as an industry, as consumers, at adapting to all the
18 changes taking place around us. Digital rights
19 management is a tool that allows us to take the world
20 that's being digitized, all the bits that are being
21 digitized, film, video, software, books, X-rays, CAT
22 scans, MRIs, and being able to apply some control to
23 that.

24 I think if you keep the context of it being a
25 tool, maybe some of the hyperbole will recede.

1 MS. MULLIGAN: Okay. So our panel is going
2 to work this morning, and I'm going to give a brief
3 overview of both consumer expectations and some of
4 the legal issues, primarily from a U.S. perspective.

5 Then we have a series of panelists on my
6 right who will drill down a little bit more on
7 particular issues around consumer protection,
8 interoperability, security.

9 And then the second half of our panel is
10 going to be about the obsolescence, the shift from
11 analog to digital television.

12 Similar to the job you just had in trying to
13 give a 3000 foot overview of technology of DRM, it is
14 a little bit difficult to give a 300 foot overview of
15 policy area of DRM, given that DRM is a technology
16 that can be used in a variety of different spaces
17 and, therefore, a variety of different policies and
18 legal implications might flow from that.

19 The one that I would like to focus on today
20 because I think it is probably most relevant to the
21 FTC and most relevant to consumer experience, of
22 course, today is around digital rights management
23 technology in the realm of protecting copyrighted
24 works, or we can think of them also as information
25 bits. So music, video, whether it is consumer or

1 user produced or produced by commercial studios and
2 increasingly other forms of information. So we can
3 think about books moving into the digital environment
4 more fully.

5 Copyright law, which has traditionally been
6 the vehicle through which we protect the rights of
7 copyright holders, provides a very limited set of
8 what we call exclusive rights, the right to
9 distribute, the right to publicly perform, the right
10 to make derivative works, the right to make copies.

11 These rights are quite limited in scope. And
12 within the realm of when a consumer walks home with a
13 purchased piece of a copyrighted work, whether it is
14 a book or a CD or a movie, they actually enjoy a
15 whole lot of rights or they are allowed to make a
16 whole lot of personal uses of that work that
17 copyright says nothing about.

18 So when I get home with a book, I'm allowed
19 to read it from the back to the front. I'm allowed
20 to listen to the tracks on my CD. I'm allowed to
21 listen to track 3 and then track 7. I'm allowed to
22 read my book aloud to my child. I'm allowed to have
23 five friends over to watch a movie in my living room.

24 There are a whole lot of things that --
25 copyright law simply says nothing about them. These

1 are the things, the personal uses, fair use, which is
2 something that we have heard quite a bit about with
3 respect to information, goods and DRM, is certainly a
4 component of it.

5 So what can I do that might interfere with
6 the exclusive rights of a copyright holder yet
7 nonetheless be protected because we feel it has
8 value, whether it is educational value or parody or
9 criticism?

10 There is a lot of breathing space within
11 copyright law. One of the effects of digital rights
12 management technology is in many ways to invert this
13 paradigm.

14 Instead of being a set of exclusive rights of
15 the copyright holder, there is an extraordinary
16 amount of flexibility around the personal uses that
17 individuals actually experience in the home. DRM
18 actually can turn this into what we would call a
19 permissions culture.

20 So instead of having a work that I take home
21 and can make lots of different uses of, the
22 experience is that I might end up with a work that I
23 can only play on one device. I might end up with a
24 CD that when I put it into my computer, I actually
25 can't listen to song 7 and song 10 or song 1, I can

1 listen from the beginning to the end or one track in
2 the middle.

3 I might come home with a book that actually
4 in digital format tells me I can't read it aloud. In
5 many ways DRM is being used to give owners of
6 copyrights increasing kinds of control over the way
7 in which personal individuals use and experience
8 copyrighted works within the confines of their homes.

9 Another big shift is the business models.
10 Typically in the analog world, if we bought a book or
11 CD or rented a movie, we weren't actually interacting
12 with the owner of the copyright. There tended to be
13 intermediaries.

14 Those intermediaries played a very important
15 role. Booksellers, for example, have very strong
16 allegiance to protecting privacy. If you all
17 remember the Monica Lewinsky scandal and the fact
18 that Kenneth Starr wanted access to the records of
19 Monica's book purchases.

20 The producers of copyrighted works or the
21 owners become the same people who are providing
22 services, and we have actually seen an increasing use
23 of digital rights management technology and other
24 sorts of technical mechanisms to monitor how users
25 are enjoying information goods in the privacy of

1 their own home.

2 Your computer could potentially be spying on
3 which pages of the book you are reading or how
4 quickly do you watch the movie, whether you watch the
5 whole movie or not.

6 Some of us might not be too concerned about
7 this. But it is an important understanding that all
8 of a sudden the removal of this intermediary provides
9 new opportunities to monitor post-purchase
10 consumption of goods.

11 So what's the role of law in the states and
12 what do we know about consumer expectations? There
13 is a wonderful survey I would encourage you to look
14 at at an organization called Indicare that was formed
15 by the European Commission but run out of the
16 University of Amsterdam.

17 They did a survey of consumers in seven
18 European countries. And some of the interesting
19 findings were despite a limited understanding of
20 copyright law, there were incredibly high clusterings
21 around certain deeply held beliefs about the things
22 they can do with copyrighted work, deep feeling that
23 the ability to copy a work in order to move it to a
24 different device was something that consumers should
25 be able to do. Really deep interest in

1 interoperability, deep commitment to sharing. And
2 sharing being very distinct from kind of the massive
3 P to P proliferation that you might see, a
4 distinction between what we might consider to be
5 infringing and the typical experience of sharing a
6 book with your best friend or sharing the music that
7 you are listening to with your husband.

8 In the U.S., we have a host of different laws
9 that are implicated in the use of digital rights
10 management and the copyright space. One that has
11 been of increasing importance is the Digital
12 Millennium Copyright Act which basically makes it
13 illegal for individuals to circumvent or to traffic
14 in circumvention technologies that basically would
15 crack the locks that have been put around digital
16 content.

17 There is very little litigation at this point
18 to tell us how the Digital Millennium Copyright Act
19 interacts with consumer's desires to make personal
20 uses or fair uses that might be prohibited or made
21 technologically impossible by DRM technology.

22 We have seen some very aggressive efforts to
23 use the DMCA to basically interfere with competition
24 and particularly in ancillary markets. So with
25 respect to garage door openers and toner cartridge

1 printers, not things Congress had in mind when it was
2 passing this law.

3 But we have seen some very serious
4 anticompetitive behaviors and patent misuse where
5 people are trying to basically exercise control over
6 ancillary markets.

7 Finally, consumers generally don't know what
8 DRM is. That's certainly what we found in the
9 European study. And right now when consumers
10 purchase a work, there is little disclosure about the
11 terms of that work that are being enforced, either
12 technically or through a mixture of private contracts
13 indicating how the consumer might use the technology,
14 and it might interfere with the personal uses that
15 they typically make.

16 So with that hopefully rather brief overview,
17 I would like to turn it to James DeLong, who is the
18 senior fellow at the Progress and Freedom Foundation,
19 who will focus a little bit on interoperability.

20 MR. DELONG: Yes, thank you. I really see
21 these things in a totally different framework in that
22 copyright and its rules has been established largely
23 in the context of technology and what technologies
24 are possible.

25 For example, the first use doctrine which

1 says if you buy a book, that you can do what you want
2 with it. Part of that is because you couldn't
3 control the use anyway.

4 But think about it. Is that really a good
5 doctrine for me as a consumer, in that I go into the
6 bookstore, I see lots of books, 25, \$30, and I sort
7 of think maybe I would like to read that but I don't
8 want to buy it for that price.

9 But suppose in fact the bookstore had a whole
10 shelf of things that said you can buy this book and
11 have it in your library for \$30. You can buy it, buy
12 the right to read it once for \$3. I can choose.

13 I'm not really giving up any rights. I'm
14 gaining some. This seems to me to be the basic story
15 of DRM, and that is that simply by making more things
16 possible, more price points possible, more different
17 bundles of rights possible, you really unlocked a
18 cornucopia of content.

19 The big problem now is creators are not paid
20 enough. I'm not talking about the record industry,
21 middlemen and all that. Creators aren't paid enough.
22 Somebody makes a song, records a song, a cover, the
23 songwriter gets 8 cents. I don't know what the
24 musician gets. But every track you buy off iPod or
25 on a CD, the songwriter, the creator gets only 8

1 cents.

2 You set up DRM, you get low transaction costs
3 like the micropayments conference that will go on
4 November 28th in New York. You get all sorts of
5 different price points, different rights. And a lot
6 more will go to the basic creator.

7 It seems to me that the crucial factor here
8 is the transaction cost. A lot of people are working
9 on that one, including the two gentlemen on each side
10 of me now. Both Sun and Microsoft are companies that
11 are totally dedicated to the proposition of
12 interoperability in all its forms, and sometimes with
13 each other, actually, yes.

14 The idea is that they need to draw on
15 creators of software and programs, and in the words
16 of Bill Joy, one of the founders, one of the truisms
17 of the world is that wherever you are, most of the
18 smart people are working somewhere else.

19 So you need to get them, no much how much you
20 are willing to spend for talent. Microsoft, Sun and
21 Google will spend prodigiously for talent, and they
22 need to interoperate with those people.

23 They have to set it up so that you have some
24 degree of control, so that you can have markets, so
25 that you can have competition.

1 Now, I have one more analogy I would make,
2 and that is to real estate. That is, the progress of
3 civilization is intimately related to how much we
4 have been able to slice and dice real estate rights.

5 You can lease things, you can buy things, you
6 can buy them on time, you can have boxes in the air
7 called condos. You can rent a restaurant seat for an
8 hour. You can rent a beach property for a week. You
9 can have time-sharing condos.

10 All these things make more consumer choice
11 available. Think of the intellectual creations in
12 that context.

13 The more different slices and dices you get,
14 the more price points and the lower transaction
15 costs, the more you can get. And of course these
16 guys would like to charge you these monopoly prices
17 but they can't do it.

18 They are working out through the market what
19 consumers have to get as part of their bundle of
20 rights. People do like to shift things from one
21 computer to another. They are accommodating that.
22 They are giving you the options.

23 If you let the market work, it will go.

24 One final comment, and that is there is
25 another very practical element to all of this, and

1 that is I have one qualification for being on this
2 panel and that is I was once a regulator in the
3 Federal Trade Commission.

4 I used to help write trade regulation rules.
5 I personally have been reversed by the D.C. Court of
6 Appeals, also was once featured in a column the old
7 Washington Star used to have called Gobbledygook.

8 I once rewrote a Commission rule in the form
9 of a guidance document because it actually caused a
10 few problems there which earned me a phone call from
11 somebody at the Federal Reserve saying "you realize
12 you just made every bank in America insolvent" and a
13 trip to the chairman's office who looked at our
14 guidance document and he said this is a very
15 interesting way to do business.

16 The government, the FTC, no agency can
17 possibly have the institutional capacity to keep up
18 with this stuff. There is no rule you can write, no
19 process you can follow.

20 As an example of this, Tom Hassa, a professor
21 at George Mason has commented quite acidly on the
22 Federal Communications Commission, that they
23 suppressed cable television, they suppressed one
24 thing after another, this is what will happen if you
25 turn the government loose on these things, they will

1 suppress consumer choice, suppress this idea in the
2 name of expectations and this cornucopia will be
3 stopped up.

4 I will stop there.

5 MS. MULLIGAN: I will open it up for a
6 question or two.

7 It sounds like we have perhaps a very
8 positive view that the market is going to basically
9 respond to consumer concerns.

10 What about something that copyright is quite
11 protective of that perhaps the consumer marketplace
12 might not respond to, things like the ability to
13 reverse engineer? Do panelists have any ideas about
14 what kinds of interventions are necessary or not
15 necessary to make sure we have the leapfrog benefits
16 to the consumer that flow from the ability of folks
17 to reverse engineer each other's products and create
18 things that are interoperable?

19 MS. MCSHERRY: I do. Corynne McSherry from
20 the Electronic Frontier Foundation. When it is my
21 turn, I will talk a little bit about some of the
22 lessons that I think we can learn from DRM so far
23 with respect to privacy and security.

24 And one of the key lessons I'm going to talk
25 about and I think the key thing we can learn from the

1 Sony Root Kit fiasco of a year ago is it is extremely
2 important that security researchers be able to have
3 access to DRM and be able to freely reverse engineer
4 so that they can essentially provide a check and
5 protection for consumers, make sure there aren't
6 security flaws in the multiple forms of DRM that are
7 being promulgated.

8 Security flaws are being introduced into
9 people's computers. One of the things that happened
10 in the Root Kit situation is that independent
11 researchers provided a key role.

12 They are the ones that discovered the
13 problems. If they hadn't discovered the problems,
14 with the help of a lot of folks gotten on Sony BMG's
15 case about those problems, the problems never would
16 have been fixed or possibly never would have been
17 fixed. That I think is absolutely crucial.

18 MS. MULLIGAN: Please.

19 MR. MOSS: We are all standing on the
20 shoulders of giants. We all work and learn based on
21 everything that we have learned and experienced.

22 The focus on interoperability often gets
23 confused thinking this thing has to talk to this
24 thing.

25 From the consumer's perspective, what you

1 want is something to work. I pick up a device and
2 whatever I have put on it should just play.

3 There are lots of ways to get there. One is
4 to have my content protection talk to someone else's,
5 and there are examples where that is already
6 happening.

7 We work with cable technology and some of the
8 DVD technology. There are examples where that is
9 happening. Other ways are where the device has
10 multiple forms of content protections.

11 That also works today, the key that you put
12 into a machine sitting on top of your TV, it figures
13 out whether it is playing audio or video and it is
14 smart enough to know the difference. We will find
15 that form of interoperability as well.

16 As we focus on the need for interoperability
17 which is paramount, because from the perspective of
18 someone who wants to distribute stuff, what you want
19 is the biggest audience possible, you want to know
20 that wherever you are distributing it, the machine
21 that it ends up on is able to play it so you can get
22 to the transaction you want.

23 So interoperability is critical. There are a
24 lot of paths to get there. We need to maintain that
25 focus.

1 The other point is in the world of digital
2 rights management, trust is very important. You need
3 to be able to trust from both ends of the
4 transaction. If you are distributing something, you
5 need to know that where it is going is a reliable
6 trusted source and as the consumer, am I getting what
7 I think I'm getting.

8 That brings up not only technical issues but
9 labeling and issues around notification so that
10 consumers know what the machine is that they are
11 getting and the content that they are acquiring.

12 It is not a simple question.

13 MS. MULLIGAN: I will turn it over to Tom
14 Jacobs, director of research at Sun.

15 MR. JACOBS: I agree very strongly about the
16 need for interoperability, and I find myself in both
17 camps of the discussion on it, because I believe that
18 where we are today in this first generation of DRM
19 systems that are out there is very much very closed,
20 the architectures, the implementations, the security
21 practices are not being reviewed in a broad and open
22 way.

23 I think this "trust me" attitude of
24 individual suppliers of technology puts at risk more
25 Root Kit examples to come.

1 I think at the same time we can move towards
2 more open, better reviewed, better analyzed
3 approaches to doing security while at the same time
4 maintaining trust systems.

5 You certainly want to make sure that you
6 can't go and pick up an open source version of a DRM
7 if you are a copyright manager. You want to make
8 sure someone can't pick up the open source, rebuild
9 it and hack all of your content.

10 There are trust systems and certifications
11 and conformance prophecies above and beyond the
12 source code implementations of things that would
13 allow for trust, allow for these uncompromisable
14 systems without them being trusted to a single
15 vendor.

16 There was a discussion earlier on about there
17 has been a lot of troubles with Web browsers and the
18 security that they provide. The ones that are more
19 open are the more secure ones that are out there
20 today.

21 So I think going in that direction with the
22 next generation of rights management systems, where
23 you get interoperability by design, as opposed to
24 bailing wire and chewing gum of figuring out how you
25 point devices at each other and get them to transfer

1 rights is what consumers will expect and demand.

2 MS. MULLIGAN: I will let you continue right
3 on into your remarks.

4 MR. JACOBS: Just to continue on, where we
5 are today with the iPods and DVD players that are out
6 there today, this is really the first generation of
7 true DRM systems. We have had copy protection and
8 such systems before.

9 But if you think about where we are, we are
10 much like where we were with the Internet about 10
11 years ago. If you stopped in 1996 and looked at
12 where the Internet development was, it was primarily
13 walled garden Internet service providers, and there
14 were just a couple of major suppliers, AOL and
15 Compuserve, as an example, who represented the
16 Internet to most people who accessed the Internet.

17 If you had stopped there and tried to
18 optimize for that world and pass too many laws for
19 that sort of a world, we would be nowhere close to
20 where we are today.

21 What you really need to do now is think about
22 where we are going to be 10 years hence and what sort
23 of protections and expectations consumers are going
24 to have and where we want to go.

25 One of the comments that was made by Andy was

1 about the best DRM is the DRM that you can't see.
2 This goes to the issue of if you look at this from
3 copyright holders who are trying to optimize their
4 financial opportunities or their use of their content
5 in an exclusive way, the relationship they want to
6 build with consumers for that content is one that's
7 very cautious.

8 They need to be able to provide them with
9 rights that they want to use on the devices they want
10 to use when they want to use them. If they aren't
11 using those rights, if they are not going to agree to
12 those sorts of rights, they are not going to use the
13 technology.

14 I go back to the discussion on security and
15 financial instruments in the session before. People
16 will vote with their pocketbook about the
17 technologies they will choose. It is very
18 interesting to look at the various studies that are
19 going on about people who are using various DRM
20 devices and then running into the problem that if I
21 bought an iPod but now I love the new Zoom device
22 coming, if I bought online for my tunes, I can't
23 transfer and vice versa; I can't go between different
24 devices.

25 As consumers get these problems slapped in

1 their face, they are going to want to have their
2 rights become more portable or they will choose not
3 to purchase from certain ecosystems of DRMs.

4 They might choose to totally abstain and
5 continue to buy compact disks and figure out how to
6 load them into their devices, which is what the
7 majority of people do today because of the immense
8 flexibility, it goes in my car, my computer,
9 everywhere with me.

10 This goes to an effort we launched about a
11 year ago called the Open Media Commons Effort which
12 is intended to drive through open communities the
13 definitions of interoperability by design and a big
14 focus on accessibility and the royalty-free nature of
15 source code implementations of DRM systems.

16 We have been working with the Creative
17 Commons organization which has a different
18 perspective on how you manage rights from an
19 educational perspective and incorporating those
20 models in.

21 The big philosophy thing we have behind this
22 effort is rather than worrying so much about the
23 device what we should worry about is our identity and
24 various ways we can authenticate ourselves. But when
25 I start acquiring rights, whether it is music or

1 video or my personal pictures that I have shot on my
2 camera or camcorder, I want to be able to have those
3 rights and manage them in the network in the same way
4 I might use a Yahoo presence for my personal e-mail.

5 I can manage all of my e-mail and send things
6 around by virtue of my network identity in that
7 particular portal. We think when we move on to this
8 next generation, it will be intraoperability by
9 design as opposed to legal contract and perhaps
10 market-limiting opportunities.

11 MS. MULLIGAN: I want to ask another
12 question.

13 The notion of kind of seamless invisible DRMs
14 sounds somewhat appealing. I want to take something
15 home, and I just want it to work. I don't want to
16 have to figure it out.

17 On the other hand, the invisibility of the
18 Sony DRM that loaded a Rootkit on to my computer may
19 be vulnerable, phoned home, the invisibility just
20 didn't feel so good. It felt a little bit more like
21 the design from Penopticon, where they are looking at
22 me and I didn't know they were there.

23 I'm wondering -- certainly one thing the FTC
24 has focused on in the area of privacy is notice, and
25 particularly important I think where we have business

1 models that might be trying to radically restructure
2 expectations.

3 Mr. DeLong set up the, well, you can buy one
4 listen to the track, you can buy three listens to the
5 track, the track can explode when you listen to it
6 four times, share it with three people.

7 There was some interesting work, and I would
8 point you to this Indicare survey, which showed that
9 people are willing to pay twice as much for music
10 that was portable, music you could listen to on
11 multiple devices, music they could do lots of
12 different kinds of sharing with than they were for
13 very restricted, limited DRM-enforced rules, which is
14 interesting but completely consistent with the
15 theories of economists that talk about information
16 flexibility being very aligned with information
17 value.

18 I'm wondering what role might the FTC play
19 with respect to making sure consumers know what they
20 bought.

21 MR. JACOBS: The critical role for the FTC
22 would be about consumer education in understand what
23 technologies and commercial options that are out
24 there.

25 One of the troubles with that is the end user

1 licensing agreements. The click-throughs seem to
2 change with each new software revision. So if I knew
3 what it was and read it once, I will probably ignore
4 it the next time. So there's a problem.

5 Having the Trade Commission be able to stand
6 up on the bully pulpit and educate consumers about
7 what they should be expecting or knowing what they
8 are not going to get by going certain directions will
9 help to challenge the industry to meet those
10 expectations and doing so from an educational
11 perspective than from a legislative perspective.

12 MS. MULLIGAN: Can I push on that a little
13 bit and get other people's thoughts? One is the
14 rights expression language. We have to come up with
15 some standardized way to allow us to talk about the
16 rights we are going to grant, and then we have some
17 enforcement mechanisms.

18 We are talking about the kind of cumbersome
19 nature of trying to figure out what your rights might
20 be or how you might be limited in your use of a piece
21 of media based on copyright law, and they tend to be
22 very long, difficult to comprehend.

23 Do you think there is a role for the same
24 kind of standardization that has been core with
25 respect to EULA so consumers are better able to

1 figure out what they bought?

2 MR. DELONG: One of the things that is
3 interesting about the creative process is it has
4 produced standard licenses so people have a better
5 shot of figuring out exactly what they have. That is
6 a great contribution.

7 MS. MULLIGAN: Your market analogy was about
8 what choices they have, and the more we can reduce
9 the transaction costs in that area, it would seem
10 that it might actually help lead to more of a market
11 model.

12 MR. DELONG: One of the things we worried
13 about a lot was people who deliberately inject noise
14 into the system, who deliberately confuse things so
15 that advertising that was truthful and advertising
16 oriented never went through. We never saw that. We
17 left it for you.

18 MR. MOSS: The Rootkit issue I don't use. It
19 is a piece of software that shouldn't be confused
20 with DRM. It was in the context of a copyright owner
21 doing something. But it was not part of the DRM.
22 That was for clarification.

23 Consumer awareness is clearly something I
24 think the Commission can help with. Consumers
25 struggle with when I buy this, what do I get for it.

1 But it is not just the EULA. Obviously that
2 needs to be clear in the understanding. But once you
3 have acquired iTunes or software that allows you
4 access to content, because of the variety of access
5 and business models that are going to be implemented
6 over the next several years, once they have the
7 content, there also needs to be awareness of what did
8 I acquire.

9 We focused on the user experience, making
10 sure consumers know and can distinguish in the user
11 experience when they are looking and discovering
12 their content, how do they know which content has
13 which set of rights.

14 Educating consumers to be aware that there
15 might be multiple business models is part of the
16 process. That's part of the innovation to figure out
17 what works, is ours better than theirs.

18 That gives us the advantage because consumers
19 find ours more appealing. I'm not sure you want to
20 standardize that.

21 But certainly educating consumers they should
22 be looking for that is a role the Commission can help
23 in.

24 MS. MULLIGAN: I was actually going to put
25 you on the spot, Jeannine, since you are here from

1 Consumers union and wonder if you have ideas on this
2 particular issue.

3 MS. KENNEY: Okay, catching me off guard. In
4 terms of just DRM generally --

5 MS. MULLIGAN: And thinking about whether
6 there is notice, what kinds of information consumers
7 might need to make good choices.

8 MS. KENNEY: That is obviously one of the
9 biggest challenges, fair use concerns
10 notwithstanding, is do consumers understand what they
11 are buying.

12 I think it is pretty clear that right now
13 they don't. Basic frustration of consumers who want
14 to take a CD and use it in their car and find they
15 are unable to. Consumers are experiencing that
16 frustration right now.

17 When it comes to the disclosure issue, it is
18 very difficult to fully disclose all the implications
19 perhaps in a manner that FTC would be comfortable
20 with to really foster the understanding of what a
21 consumer is and isn't getting.

22 MS. MULLIGAN: So we have --

23 MR. MIRABAL: I want to make a point. You
24 touched on this but didn't put your finger on it,
25 privacy. A consumer, when they are buying something,

1 they are buying a service. They are not selling away
2 their privacy in the process.

3 I think that is a very appropriate role for
4 the FTC to be looking at in terms of what the
5 discussion is today, because it is one thing to
6 manage rights. It is another thing to do that in a
7 way that it ends up invading the privacy of the
8 consumer which that is affecting.

9 I think it is two separate things.
10 Disclosure is one thing. Protection of privacy is
11 another.

12 MS. MULLIGAN: And clearly an area where the
13 FTC has a track record of activities. I will turn it
14 over to Dr. Urs Gasser, the director of the Research
15 Center for Information Law in Switzerland.

16 DR. GASSER: Thank you very much to the
17 conference organizers for inviting me.

18 I'm delighted to be the European voice on
19 this panel. The downside, of course, is I have five
20 minutes to cover 25 countries which is an impossible
21 task, I'm afraid to say.

22 The following will be a very rough overview
23 and a rather fast-paced overview of the public policy
24 debate in Europe. Before I start with that, I can't
25 resist to comment briefly on the previous issue.

1 I think the privacy example or case that you
2 just mentioned is a very good one because it also
3 illustrates the limitations of the transparency-based
4 and information-based approach.

5 We had a lot of hopes, especially in Europe,
6 that if we only disclose what's going to happen with
7 your personal information, if you already know what
8 is going to happen with that information, then
9 everything will be fine and consumers will make good
10 choices. Unfortunately, it turns out it is much more
11 complicated.

12 This leads us ultimately back to a normative
13 question, actually, do we really want a system in
14 place, an environment where, for instance, price
15 discrimination takes place to the extent that you
16 mentioned? Do we want users who will be able to make
17 a copy for private purpose willing to pay twice as
18 much for the same song as another person would pay
19 without this right, if the current copyright regime
20 and past treated both equally.

21 So that's only a comment, that probably the
22 normative they mentioned should be considered as
23 well.

24 Now let me turn over to the DRM debate in
25 Europe. Over the past few years, much of the legal

1 and regulatory debate in Europe about DRM focused on
2 the legal protection of DRM and technological
3 measures because the member states were required to
4 transpose the European copyright directive UCD into
5 their national laws.

6 Now, introducing legal protection of DRM and
7 harmonizing so-called anticircumvention laws across
8 Europe has been an enormously controversial process.
9 Three topics in particular have caused heated
10 controversies.

11 We have already heard about it. The first
12 one is DRM and its legal protection vis-a-vis
13 traditional limitations on copyright, such as the
14 right to make private copies; second, DRM and fair
15 compensation; and third, DRM and interoperability.

16 Given our panel's topic, please let me focus
17 on the interoperability issue. This topic in
18 particular has gained much attention in the context
19 of iTunes penetration of the European market,
20 especially in France but not only there.

21 At the European level, however, no coherent
22 DRM interoperability framework exists, although DRM
23 interoperability has been identified as an emerging
24 issue by the European Commission.

25 This lack of cross-sectional DRM

1 intraoperability provisions leaves us with three
2 areas of law that address this issue more generally,
3 copyright law, competition law and consumer
4 protection law.

5 Let's turn to copyright first. As I
6 mentioned, the European copyright directive, like the
7 DMCA you have mentioned before, mandates the legal
8 protection of DRM systems. However, it doesn't set
9 forth any rules on DRM intraoperability.

10 There is one recital that mentions that DRM
11 intraoperability is something member states may want
12 to encourage or should encourage, but the directive
13 doesn't provide further guidance and seems to trust
14 in the market forces, like some of our panelists
15 today.

16 At the member state level, however, France
17 has taken a much more proactive approach to DRM
18 intraoperability.

19 A draft of the recently resized copyright act
20 introduced an obligation of DRM providers to disclose
21 intraoperability information upon request without
22 being compensated. This, like iTunes -- it is not a
23 surprise -- has triggered strong reactions by the
24 media industry.

25 Accordingly, the final version of the law

1 softened up the original proposed. Now current
2 French law states that a regulatory authority media
3 interoperability requests on a case-by-case basis.

4 Under this regime DRM providers can be forced
5 to disclose interoperability information on
6 nondiscriminatory terms, but they have now the right
7 to reasonable compensation in return.

8 Let's turn over very quickly to competition
9 law. The baseline is competition law in Europe may
10 become relevant in cases where a company with a
11 dominant market position refuses to license its DRM
12 standard to its competitors.

13 However, to date there exists no case law at
14 the U level where competition law has been applied to
15 the DRM interoperability problem. In France, there
16 is one case where Virgin Media has tried to use
17 competition law to get access to iTunes' fair play
18 system.

19 The French Commission has ruled in favor of
20 favor of iTunes, arguing that the market for portable
21 music players is sufficiently competitive.

22 Finally, a few remarks about consumer
23 protection laws. Three issues seem particularly
24 noteworthy. First, the Norwegian Consumer Ombudsman
25 has been very critical about Apple ITMS

1 interoperability policy. Second, a French court
2 fined EMI Music France for selling CDs with DRM
3 protections that would not play on car radios and
4 computers, and EMI was considered to violate consumer
5 protection laws because it did not appropriately
6 inform consumers about these restrictions.

7 Third and finally, a recent proposal by the
8 European Consumers Organization proposes to include
9 -- and I think that's an interesting approach -- DRM
10 in the unfair contract directive.

11 The idea behind it is that consumer
12 protection authorities should also be able to
13 intervene against unfair consumer contract terms if
14 the terms are code based rather than law based.

15 So far, the brief overview.

16 MS. MULLIGAN: That was really wonderful. We
17 will segue right into Corynne McSherry.

18 MS. MCSHERRY: Thanks for having me here.

19 What I would like to do is sort of fill in a
20 little bit. We have been talking about privacy and
21 security issues with respect to DRM.

22 I would like to fill in a little more
23 background on a recent case that you are probably
24 generally familiar with that I think can give us some
25 lessons in terms of how to go forward, and that was

1 the Sony Rootkit fiasco is what we call it at EFF.

2 We were involved in some of the litigation
3 against Sony BMG. So full disclosure.

4 In a nutshell, what many people don't realize
5 is Sony shipped copy-protection software on 25
6 million CDs, two kinds of copy-protection software.

7 One of the things people forget is it is not
8 just a Rootkit problem but there was another kind of
9 software called Media Max that also had security
10 problems. These were developed by two separate
11 vendors.

12 The first sort of most famous problem, the
13 Rootkit problem was that Sony was shipping CDs that
14 installed hidden files on the users' systems. The
15 second problem -- I'm sorry.

16 Before I close with the problems with that
17 software which was developed by XCP, it also phoned
18 home to the mother ship. It sent information about
19 users' listening habits back to Sony.

20 There were some disputes about how personally
21 identifiable that information was. There was no
22 question that what was happening is it was
23 establishing a connection between users' computers
24 and Sony BMG and providing information about what
25 users were listening to.

1 That was very disturbing for a lot of users
2 who had no idea their privacy was being compromised
3 in this way and maybe didn't want to be communicating
4 to the mother ship just because they were playing a
5 CD.

6 The lesser known problem is the Media Max
7 problem. That was shipped on many more CDs. It
8 installed software on folks' computers as soon as
9 they inserted their brand-new CD without them knowing
10 it, and then a licensing agreement came up, and even
11 if you clicked "I disagree" on the EULA, the software
12 nevertheless stayed on your computer and could even
13 be inadvertently activated.

14 So that was a problem. In addition, there
15 was a security problem with this software. The
16 security problem with the Rootkit was it established
17 hidden files on a system that a malicious hacker
18 could then use. Basically they could fill in their
19 own hidden files and mess with your computer.

20 What the Media Max software did is many of
21 you in your workplaces will have standard security
22 mechanisms where only some folks' administrators can
23 make certain changes to the computer. This is really
24 standard practice for administrators and low rights
25 users, which are sort of the average person.

1 It is put in place to make sure that if any
2 sort of drastic changes take place, an administrator
3 knows about it and it helps fight off malicious
4 attacks.

5 What Media Max, one form of the Media Max
6 software did is it basically created a file that
7 again a malicious hacker could come in and masquerade
8 as an administrator and make changes to a computer
9 that normally a regular user wouldn't be allowed to
10 do. This was a concern as well.

11 Also, the Media Max software, like the XCP
12 software, phoned home. It sent information back to
13 Sony via an indirect vendor about user's listening
14 habits, again, without their knowledge.

15 Those were some concerns.

16 Additional concerns were this, and I think
17 this is something we haven't quite gotten to as much
18 so far. Sony BMG was not very proactive in
19 responding.

20 When the Rootkit issue first came to public
21 attention, Sony initially responded by denying that
22 it was a problem. We have had reports that Sony knew
23 about it before it came to public attention and
24 didn't do anything about it.

25 It was only when there was enormous public

1 pressure and lawsuits started being filed that Sony
2 started providing updates and uninstallers for the
3 software. They didn't investigate their other
4 software, Media Max. It didn't go and look at its
5 other DRM software and see if there was a problem.

6 Again, independent security researchers had
7 to go and find out there was a problem, inform Sony
8 of it, and then Sony did something about it.

9 This was a concern. You would think at that
10 point Sony would have the incentive to be a little
11 more proactive.

12 Let's face it. Content owners aren't
13 necessarily the ones who will have the most
14 motivation to do the security research in advance
15 that they should do.

16 That's too bad, because when consumers buy
17 things like CDs, they don't realize they may be
18 potentially installing a security risk on their
19 computer in the way they might when they install
20 software that they get from Microsoft, where they
21 expect updates and uninstallers and that kind of
22 thing.

23 Content owners don't have the incentive to do
24 it. Who does? Virus-protection companies and
25 independent security researchers. So that's why, as

1 I was saying earlier, we think it is extremely
2 important that there be licenses automatically for
3 folks to do the reverse engineering that they need to
4 do, to do the security research and provide patches
5 and so on.

6 Finally, I believe we have been talking about
7 disclosure. That is great. We think there should be
8 disclosure before you buy. You need to know before
9 you buy, not just information buried in an end user
10 license agreement that pops up after you already have
11 the CD at home.

12 MS. MULLIGAN: I want to ask one question to
13 my fellow panelists, and then we will shift over to
14 the second part of the discussion.

15 Sony was accused in many instances of
16 basically operating as though they were spyware.
17 They were downloading information software onto
18 users' computers, not disclosing it, sometimes the
19 software is being downloaded before the license
20 agreement has been represented and, more
21 fundamentally, the changes being made to the desktop
22 experience, the security settings looked like the
23 kinds of things like the Antispyware Coalition and
24 Microsoft have participated in, the kinds of changes
25 they say you shouldn't be making without an

1 extraordinarily high level of user involvement.

2 I'm wondering is there a bright line where we
3 say you can't download certain kinds of software that
4 are going to change users' experience, period, not
5 because it is a threat to the consumer but the
6 Rootkit, for example, created the opportunity for
7 somebody to remotely turn my machine into a zombie
8 and use it as part of a big botnet and engage in
9 denial of service attacks.

10 I don't care if you want it on your machine;
11 it is not good for the rest of us. Should there be
12 any outer limit on what we can allow users to consent
13 to when it comes to security settings?

14 MR. MOSS: I think it becomes a real
15 challenge. We don't know today what we will be able
16 to do tomorrow as technologists.

17 Any time you try looking for that bright
18 line, the unintended consequence is preventing some
19 future innovation that might be useful. I think that
20 is a real hard thing to think about.

21 There are lots of ways that changing the user
22 experience is a fine thing, where the user is aware,
23 it is perfectly described to them, clear and it is
24 consented, and then it is probably okay.

25 There are bad actors and people do bad

1 things. That's why as a systems manager, we
2 constantly try to prevent bad actors from doing bad
3 things. I'm not sure you can draw the bright line.

4 MS. MULLIGAN: As a former regulator, so
5 the consumer basically just consented to the back
6 door of their computer being permanently left open.
7 Any role?

8 MR. DELONG: I'm not the FTC. Those come up
9 in the P to P context, where the companies load you
10 with all sorts of stuff and make you into a
11 supernode, part of the system. In fact, if you are a
12 researcher who knows what is going on and want to
13 become a supernode, that is a good use of resources
14 that would otherwise be wasted.

15 If you were helping to download all sorts of
16 pirated material, the record industry will come at
17 you because you have 10,000 songs on your computer
18 and that's is not so good.

19 The problem of being a regulator so often
20 would be it was this iterative process and you would
21 pass a rule, and then all of a sudden more holes, so
22 you pass more rules, and then you get the guidance.

23 You know what that's like. You can see the
24 Federal Register. And I don't know how you regulate
25 it.

1 One good thing about the Sony incident was
2 the companies in the market did respond quite
3 quickly. In fact, that problem was solved a lot
4 quicker than it would have been by government
5 regulation.

6 I really do have a lot of faith in exposure
7 and a lot of faith in the ability of consumers when
8 outraged to punish companies that they don't like.

9 MS. MULLIGAN: On the exposure issue, I
10 actually represented one of the computer security
11 researchers that uncovered a lot of this. The legal
12 terrain we were operating in was actually quite
13 complicated.

14 The ability to shine a light is actually
15 quite complicated, given the state of federal law. I
16 don't know if I will rely on the sanitizing effect of
17 the bright glare of the spotlight in this area given
18 the complexities of the research agenda.

19 Anybody have one last comment?

20 MS. MCSHERRY: It is not just federal law.
21 It is also back to the end user license agreements.

22 The problem we see over and over, companies
23 will shift their software where they need a license
24 agreement that prohibit reverse engineering. That
25 makes security researchers very nervous about how

1 much investigation they can and cannot do.

2 And that I think is in many ways a more
3 significant problem than federal law as what is
4 happening with contracts.

5 MS. MULLIGAN: We will shift from a
6 conversation about a technology that most consumers
7 don't know about to one all of us experience daily, I
8 think.

9 Because I don't want to cut into your time, I
10 won't say much other than a shift from analog to
11 digital television is almost upon us, and there is a
12 whole host of consumer protection and fairness
13 issues, and I look forward to hearing your comments.

14 We will start with Manuel Mirabal, who is the
15 chair of the Hispanic Technology and
16 Telecommunications Fellowship, as well as the
17 president and executive officer of the National
18 Puerto Rican Coalition. And then we will turn it
19 over to Jeannine Kenney, senior policy analyst,
20 Consumers Union.

21 MR. MIRABAL: Thank you.

22 Most of the people in this particular room
23 today are aware that there is going to be a
24 transition in the way your televisions work from
25 analog to digital, but that's not the case generally

1 in the public eye.

2 Most Americans today who for the most part
3 own what is referred to as analog TVs and who are
4 purchasing every year about 20 million analog TVs are
5 simply unaware that sometime soon after Valentine's
6 Day of 2009, if they don't have extra equipment or
7 they are not subscribers to some cable system, they
8 will have just snow on their television sets.

9 We have been working on this issue for a
10 number of years. I know Consumers Union has. For
11 us, representing a minority constituency, it is
12 particularly important and alarming about what's
13 going on.

14 In the minority community, all of the data we
15 have indicates that minorities own more television
16 sets and they watch more TV. They overindex in both
17 owning and watching TV.

18 They also overindex in the amount of free
19 over-the-air television that they use. In other
20 words, they are not subscribers to some cable or
21 satellite service. In the Latino community alone, 40
22 percent of the Hispanic community of Hispanic TV
23 households use free over-the-air TV.

24 For the most part, two years ago when I was
25 participating in the Nielsen minority viewer research

1 committee, when we did a study, a very small number
2 of those Hispanic and African American households
3 owned digital-ready televisions, meaning that for
4 most of the minority community that our organization
5 represents, it is going to cost them more to continue
6 using their TV sets after the transition in 2009.

7 But more importantly, again, about
8 disclosure, the issue which I think you were talking
9 about is should the industry be allowed to self
10 regulate? Should we rely on the industry to do the
11 right thing for the public? Because if it doesn't,
12 the public will respond and it will respond
13 negatively to them.

14 In this situation, up until now we virtually
15 have allowed the industry to self regulate itself in
16 terms of how it is going to deal with the transition.

17 There is very little notice to a consumer
18 today that when they buy an analog television set,
19 which are still flying off the shelves to the tune of
20 \$20 million plus a year, that they are going to need
21 additional equipment or some subscriber service to
22 continue to have that work.

23 The bottom line is that television sets are
24 not considered to be junk. They are not going to
25 throw out three to four television sets. Most people

1 don't have the money to buy a new set, and many
2 people don't have the funds to even buy the converter
3 box that will allow their television sets to continue
4 to work after the transition.

5 So the federal government has put into place
6 a system where subsidies will be available through
7 some system which has yet to be determined completely
8 for individuals that have analog TVs and do not have
9 another way of getting free over-the-air television
10 to get a voucher to help them buy a converter box,
11 which, by the way, doesn't today exist in any shape
12 or form.

13 The industry, the electronics industry itself
14 could probably if it wanted to today install digital
15 conversion equipment in every TV they sold for maybe
16 \$15 to \$20 extra, but they are not doing it because
17 they are doing things the way they have always done
18 it. When they can't sell those TVs here, they will
19 continue to sell them in other countries that don't
20 have this problem.

21 Our efforts in the last few years have been
22 to bring to the attention of federal regulatory
23 agencies like the FCC, like the FTC that there is a
24 very important role they need to play on both sides
25 of this, on the industry side and the consumer side,

1 and there has to be a mechanism established when all
2 those phone calls start coming in to agencies about
3 why their TVs aren't working.

4 We tried to convince Congress they are the
5 ones that are going to get the brunt of these phone
6 calls, because people are eventually going to find
7 out Congress is the one that passed the law.

8 Let me close by saying we are not opposed to
9 the digital transition because there are some
10 important benefits that we will receive by using that
11 analog spectrum for security purposes, to have first
12 responders talk to each other in a more efficient and
13 secure way by the sale of that spectrum which will
14 produce some income which can be used for some other
15 purposes, including subsidies.

16 What we are concerned about is the way this
17 is going to happen, in particular, the way it will
18 affect minority households who use their free
19 over-the-air TV for local news and social purposes
20 and other very important family kinds of uses.

21 So with that, I will turn it to my colleague
22 here.

23 MS. KENNEY: Thank you. That's a really good
24 setup for what I want to talk about.

25 I wanted to provide you with an overview of

1 the motivating factor behind the digital transition,
2 how that affected the structure of the program that
3 Congress created and what sorts of consumer issues
4 that program structure implicates and then maybe
5 close with a little bit of an outlook in terms of
6 what the events of the last 24 hours may mean for
7 addressing some of these issues.

8 Just a few starting observations. The title
9 of this subpanel is obsolescence. It is important to
10 recognize that the digital transition is
11 government-mandated obsolescence.

12 It is pretty unusual for the government to
13 basically render otherwise perfectly good electronic
14 equipment useless for its primary purpose. So
15 normally over time, technology transitions occur. As
16 technology improves, the price goes down, quality is
17 enhanced and adoption occurs.

18 Basically here a government is forcing
19 consumers the adopt technology when they haven't yet
20 seen the benefits.

21 What is interesting about this transition is
22 because of the converter box issue that Manuel
23 mentioned, those consumers who have least seen the
24 benefits of the digital transition who are the ones
25 who will most likely incur the cost because they

1 haven't adopted the technology.

2 It is important to understand the digital
3 transition was budget driven in addition to being a
4 government mandate. It was budget driven, although
5 there were many members of Congress concerned about
6 the availability of spectra for public safety.

7 What facilitated the transition was the need
8 to grab the \$10 billion-plus in spectrum auction
9 revenues when the broadcasters had to return a
10 portion of the spectrum. They are currently using
11 simulcast.

12 The implication of that is Congress was
13 looking to take that auction revenue and use it to
14 offset tax cuts and program changes in other areas as
15 part of the Budget Reconciliation Act.

16 This didn't occur through a
17 telecommunications or spectrum policy act. It was
18 part of a budget reconciliation process.

19 So that motivated Congress to try to minimize
20 any cost associated with the digital transition
21 program. But there was pretty serious recognition
22 that you frustrated consumer expectations.

23 Consumers buy TVs expecting them to work.
24 They understood there were political repercussions in
25 how they did structure the transition. The first

1 question was how many sets out there are going to be
2 affected. Sets unconnected to cable and satellite
3 systems, but be careful, because we can't necessarily
4 assume that yet.

5 There is nothing in the legislation that
6 would allow cable systems to down-convert digital
7 signals the analog. I am guessing Congress will
8 address that or that will be resolved.

9 How many unconnected sets are there?
10 Estimates have ranged from the low 20 million area to
11 80 million, which is what we found in the survey that
12 we did. My guess is somewhere between 60 and 80
13 million unconnected sets. Regardless of what number
14 you use, it is a lot of sets.

15 The other issue was how much compensation.
16 We don't consider it a subsidy. You are basically
17 compensating consumers for the cost of keeping their
18 TV sets working.

19 How much compensation should be provided,
20 partial or full and then to who? Everybody with
21 unconnected sets, just low-income households, just
22 those households that rely on over-the-air reception
23 exclusively?

24 The way Congress resolved that is, as Manuel
25 mentioned, they created a coupon program whereby

1 anyone with unconnected sets could get a \$40 voucher
2 to offset the cost of the box that would be required
3 for their TV. They did not cap the retail price. We
4 don't know how much that 40 bucks actually covers,
5 which implicates some consumer concerns there.

6 Here's the problem. They basically made
7 everybody with an unconnected set eligible but
8 provided about a third of the amount of money
9 required to meet the needs of all those eligible
10 households.

11 They also structured the coupon program in a
12 way that makes it pretty difficult for consumers to
13 gets access to the coupons. It is a very short
14 application window. The application window occurs
15 about a year before the transition actually happens
16 and the coupons expire in three months.

17 Basically NTIA has been charged with
18 implementing an entitlement program with not enough
19 money to serve those eligible. Congress provided
20 \$5 million for consumer education.

21 So let me see if I can summarize very briefly
22 what the consumer issues are here. Obviously there
23 is the fairness question, of being asked to bear cost
24 for a transition you didn't ask for and may not want.
25 There are a lot of risks here for consumers to be

1 misled and a lot of risks from misrepresentation.

2 HDTV is a very high-margin product. There
3 will be incentive, we fear, for retailers to lead
4 people to believe they can't buy an analog set, they
5 need a digital set and you need an HDTV, when there
6 are standard digital televisions or enhanced digital
7 televisions that are perfectly good.

8 There will be an incentive to not let
9 consumers know they can get a converter box.
10 Obviously it is not an issue with consumers who are
11 seeking to buy digital televisions.

12 There are some issues there with consumers
13 not having enough information, not understanding the
14 transition, there not being enough government money
15 to really educate the public about what is happening
16 and what their rights are for there to be some real
17 serious issues at retail.

18 The other issue is price gouging. You have a
19 combination of a final date after which your TV won't
20 be useful, you have a captive audience and no cap on
21 the retail price of the boxes. So we don't know what
22 kind of games can be played at retail when there are
23 no price controls on the technology.

24 The outlook, Congress was very concerned
25 about inadequate compensation for consumers and how

1 that would implicate consumer acceptance of the
2 transition.

3 I think given the flip in control of the
4 House, we may see greater opportunities for Congress
5 to come back and address that. And I say that
6 because this was not a purely partisan issue. There
7 was bipartisan support in the Senate for all eligible
8 compensations, and they provided enough money to do
9 that.

10 The House was a different story. There the
11 Democratic members of the committee wanted full
12 compensation. That was intentioned with the desire
13 to maximize the revenues for offsetting deficit
14 issues. So there was a split.

15 The result of the election may be that
16 Congress will come back and deal with some of these
17 issues in terms of inadequate funding for
18 compensation, inadequate consumer education and some
19 of the structural deficiencies of the program itself
20 that may make the transition far more difficult.

21 At stake is the hard date. If consumer
22 acceptance is low, there is the risk that Congress
23 pushes that hard date back. That is something that
24 certainly the electronics manufacturers don't want to
25 see as well as those who are looking to use the

1 spectrum that's returned.

2 MS. MULLIGAN: I'm certain I don't want to be
3 the representative whose district experiences white
4 snow all across on the conversion date.

5 So I'm not always incredibly optimistic about
6 the market to take care of certain things on their
7 own. It seems there will be an enormous amount of
8 push-back, the reality of all my televisions turning
9 to snow.

10 What do you view as a potential role for the
11 FTC here? I heard you talk about education and
12 notice to consumers and fairness in marketing
13 practices. I know there has been some experience
14 internationally and a few other places that have
15 converted. Are there things we can learn there?

16 MR. MIRABAL: There was the Berlin plan where
17 they gave everyone assistance in getting converter
18 boxes. I think Consumer Union tracks this one,
19 what's happening on the Hill.

20 There was the sense I got that Congress was
21 looking at industry, industry was saying to Congress
22 we can't really get this done unless we have a hard
23 date. Congress was saying we can't get a hard date
24 together because we don't have the information.

25 I think they came up with a date that was a

1 little bit further in the future than the industry
2 wanted it to be. It was a little too close for us
3 because understanding -- let's take an example of the
4 last few fiascos that government has managed to make
5 for itself and just one that has nothing to do with
6 the entire public but the enrollment in the Medicare
7 program, which was very badly handled by a government
8 agency which was underfunded, understaffed, ill
9 prepared.

10 We are talking about --

11 MS. MULLIGAN: What specific impacts on
12 minority populations?

13 MR. MIRABAL: Hundreds of thousands of people
14 making phone calls. They will not call one or two
15 offices. They will call as many offices as they can
16 until they get an answer that says "we know how to
17 make your television work."

18 There will be price gouging. There is going
19 to be consumer rip-offs in small electronic stores.
20 There will be misinformation.

21 For those individuals who are limited English
22 proficient, whether it is Spanish or any other
23 language, it will be even worse.

24 For the elderly, it will be something that
25 will basically affect their lives because they are

1 even more home bound and connected to that television
2 set than most other people. And many of them are on
3 much more limited incomes with less flexibility to go
4 out of the household, to file paperwork.

5 It is something that I agree maybe with this
6 shift on the Hill that's coming that we need to go
7 back and get the FTC and FCC to basically speak to
8 Congress and let Congress know what kinds of
9 experiences there are and what they need to address
10 on this.

11 If that is not in place, we can't see going
12 through with this because it is going to wreak havoc,
13 not just on offices who will get these phone calls,
14 but the quality of life of many, many hundreds of
15 thousands of Americans are going to be affected.

16 In the end, it is just a pocketbook issue
17 which can be resolved I think another way.

18 MS. KENNEY: I think as we move forward,
19 assuming Congress comes back and addresses the
20 deficiencies in the compensation program,
21 deficiencies in education, I think there is going to
22 be a need for vigilance in terms of retail practices,
23 advertising, as well as representations at the point
24 of sale, in terms of what consumers do or don't need.

25 There is all sorts of add-on equipment that

1 consumers can be marketed as well. You may be sold a
2 new antenna when you don't need one. That is
3 particularly important for vulnerable populations,
4 the elderly, nonEnglish speakers who may not fully
5 either have the ability themselves to adapt to the
6 transition on their own or not have the information
7 that they need.

8 So I think that's going to be an area that
9 the FTC may need to focus on and I assume under
10 existing authority.

11 I would note in the pending
12 telecommunications bill in the Senate which may or
13 may not be addressed -- I'm doubtful -- there were
14 provisions that addressed concerns about false and
15 misleading representations and practices associated
16 with retailers and the transition.

17 I'm not saying all retailers are going to do
18 this. I think there is a risk given the dynamics at
19 play here.

20 MS. MULLIGAN: I want to thank all of our
21 panelists. I think this was a really informative
22 session.

23 (Applause.)

24 (Lunch and Technology Pavilion.)

25 MS. SHANOFF: All right, let's begin.

1 Hello, everyone. Welcome back from lunch to
2 all of you. I'm Carolyn Shanoff from the FTC's
3 Division of Consumer and Business Education.

4 We are the folks who try to give consumers of
5 all ages and stages of life practical information
6 they can use about recognizing and avoiding scams and
7 ripoffs and understanding credit, being safe and
8 secure online.

9 Since this panel deals broadly with
10 communicating with consumers, we thought we would
11 start by getting the consumer perspective. Let's go
12 to the videotape and check it out.

13 (Whereupon, the video was played.)

14 MS. SHANOFF: Thanks to our consumers.

15 This panel is called the impact of
16 demographics and shifting consumer attitudes.

17 During the last few days, you have heard many
18 speakers refer to the increasing influences of the
19 networking sites, word of mouth marketing,
20 particularly among digital natives and millenials,
21 and these are the people born between 1982 and around
22 2000.

23 We will hear from Bill Strauss, an expert on
24 millenials, who will talk about who millenials will
25 consider as far as communicating information, how

1 millenials will shape emerging technologies to suit
2 their needs, what the implications are for the FTC
3 and other consumer protection authorities and how
4 millenials' concept of online privacy will evolve.

5 Then we will hear from Beau Brendler, Scott
6 Shipman, Solveig Singleton. And after that my
7 colleague, Eileen Harrington, will step up in about
8 an hour and introduce part two of this panel.

9 Right now I would like to introduce Bill
10 Strauss, a writer, historian, playwright, theater
11 director, performer and authority on generational
12 change.

13 With his partner Neil Howe, Bill has explored
14 generational dynamics in several fascinating books I
15 can recommend personally, "Generations," "13th Gen,"
16 "Millennials Rising" and "Millenials and Pop
17 Culture."

18 MR. STRAUSS: Thank you. You forgot to
19 mention two aspects of my background. One is that I
20 co-founded the Capitol Steps, and the other is that I
21 was a teenage capital page.

22 This is true. Really. This is Washington.
23 Would I lie to you? And Mark Foley never hit on me
24 once, and then I realized it must have been our vast
25 age differential because at the time I was a tender

1 lad of 16 and Mark Foley was 9.

2 One thing about Mark Foley, as you look at
3 what has happened in the government with the
4 Democrats taking over, you can see with the tracking
5 polls, the Mark Foley incident, the eruption of that
6 scandal coincided with the time that the Democratic
7 trend line started to head up.

8 There is an interesting millennial
9 generational point to that, because as many of you
10 will no doubt remember -- we certainly do in the
11 Capitol Steps, recalling the jokes of 1983 and the
12 page scandal then.

13 But those were Generation X pages, and even
14 though that was on its face a much more severe kind
15 of behavior that the Congressmen engaged in at that
16 time, actually having affairs with pages of both
17 genders, no one was forced to resign. There was no
18 question about whether government should topple. Tip
19 O'Neill was not hounded and his fitness questioned.
20 Instead we went on.

21 When you get to millennials, you just don't
22 mess with them. The fact that that was done in the
23 context of IMing and text messages makes it all the
24 more of an alarm.

25 We have something going on here with the

1 public aspect of this new generation that makes the
2 subject today fitting. We also among today's teens
3 have a rising sense of political participation and
4 interest in the civic culture that surrounds it.

5 Some of the brightest young people I know who
6 are brilliant at software design and Web community
7 structures have pointed to the U.S. government's
8 voting system as an example of older generations
9 letting things get out of control, not having enough
10 civic commitment to the task, not really being
11 knowledgeable enough about the infrastructures and
12 how that could lead to tremendous scandal and even a
13 ruined election in the context of the depth of civic
14 distrust that exists among today's older generations.

15 As we speak now, there probably are
16 battalions of attorneys poised to invade both Montana
17 and Virginia to make exactly that point.

18 I do often hear from younger people about how
19 and why today's older generations have not used
20 technologies to provide the kind of civic purpose
21 that they see as their potential.

22 When you think about millenials, you have to
23 realize that they have a unique position in history.
24 That's how Neil Howe and I defined generations, in
25 terms of that location.

1 Boomers were born just too late to have any
2 personal recollection of World War II. That's why we
3 actually define boomers, Neil and myself, as born
4 between 1943 and 1960 because they don't remember
5 World War II but they do remember Pleasantville while
6 it was still black and white.

7 If you recall, the real commitment among
8 Boomers about technology was to individualize it.
9 The "do not fold, spindle or mutilate" slogan of the
10 Berkeley free speech riot, which was actually the
11 coming out party for the Boomers, then developed into
12 an attack against the whole notion of the IBM
13 mainframe computer, the idea there was some big
14 brother, some massive thing out there that was going
15 to control the lives of young people.

16 So they resisted that. Well, a lot of people
17 think that the most famous ad of Superbowl history
18 was the 1984 ad with the woman jogger smashing the
19 telescreen. That was a boomer dream come to life.

20 The fact that Boomers were the architects in
21 the era of the PC, the personal computer, shows that
22 the penchant towards individualism that has defined
23 Boomers has translated into the technological realm.

24 It wasn't something that you shared. It was
25 something that you did to express your own inner

1 selves and your resistance to authority, your
2 questioning mind, your creativity and the like.

3 Generation Xers came along, who were born in
4 1961 to 1981. They were the children of the
5 consciousness evolution, the ones who were small at
6 the time that we had so many changes in our culture
7 and society.

8 When they collided with technology, it was
9 back in the late '70s and early '80s, as computers
10 were evolving and we didn't yet have an Internet, but
11 we did have access to more digital tools.

12 What Gen X did with technology is to take the
13 concept of the personal computer and the digital age
14 and apply that to commercial life. They found ways
15 of taking it beyond an idea, beyond a matter of
16 personal expression and actually building businesses
17 around it.

18 We have many, many entrepreneurs from that
19 generation, from Jeff Bezos to Michael Dell to
20 countless others who have built businesses around the
21 notion of the successful commercialization of
22 technology, entrepreneurial activities.

23 It is one of the things that has marked the
24 generation that grew up at a time of rising divorce,
25 latchkey children and declining trust in

1 institutions.

2 The number one institution in their life when
3 they were young was the family, and that was
4 struggling back in the 1970s as they passed through
5 it.

6 By the time they were teenagers and young
7 adults, they showed the greatest cynicism and the
8 lowest level of trust of any generation alive at that
9 time. That was the first time in the history of
10 polling that we saw teenagers being more cynical than
11 older people.

12 Then along come millenials, in 1982, the
13 babies on board, the ones in the minivan. Those of
14 you who have millenial children can recall the
15 improvement in child safety devices. I have four
16 children, two born in the '70s -- two Gen Xers, I
17 should say -- and two millenials. And during the Gen
18 X child era, the leading child safety device in a car
19 was this. Or if you were a Gen Xer, it was this.

20 The whole notion was you have to protect
21 yourself in this world, you have to handle things.
22 That was the attitude toward school, the open
23 classrooms, constant criticisms about how schools
24 were failing and not turning out kids that were
25 smart.

1 So guess who has been writing and reading the
2 books for dummies because they figure they can learn
3 what they need to do. By the time we got to the
4 millenials, that was no longer acceptable.

5 There was a bright line that was drawn in the
6 society for this new generation that was going to be
7 very unX-like.

8 The whole goal of our society was to create
9 young people who would reestablish civic life. In
10 part, this reflects the desire of Boomers not to
11 create themselves, but it also reflects a desire of
12 the society to replace the generation that is dying,
13 what Neil and I call the GI generation, the ones born
14 in the first quarter of the 20th century.

15 They were the ones associated with very high
16 levels of institutional trust. They also had been a
17 generation that had been associated with using
18 technology for civic purpose.

19 Recall the 1920s, probably the most rapid era
20 of technological change in our country's entire
21 history, when you have motion pictures, radio, public
22 utilities, especially the car, the automobile, and
23 how that transformed life in America.

24 These young people were the ones who grabbed
25 hold of that technology. Remember all the Mickey

1 Rooney movies with jalopies and so on. That was
2 something that they cared a lot about.

3 There was some concern among adults in the
4 '20s and '30s about what all these technologies were
5 going to mean for young people. If you look at the
6 life story of that generation, another generation
7 which had been born and grown up during the time
8 after a period of rapid family cultural social
9 unrest, 1890s and on, they turned those technologies
10 toward powerful civic purpose.

11 We remember them as 50 and 60 somethings back
12 in the years that we Boomers were growing up and
13 going to college and the like. They actually were
14 the ones that we were rebelling against.

15 They were the ones who were constructing
16 those mainframes, those large organizations, the
17 selective service systems using data as best they
18 could to send us to Vietnam and whatever else was
19 going on with technology. They were doing it for
20 civic purpose and Boomers were saying no. Boomers
21 were trying to disengage from the uses.

22 Well, as the millenials have come along, they
23 have stepped into the same role that the dying GIs
24 occupied, of taking a keen civic, rational approach
25 to institutional life, toward political life, towards

1 the culture as well.

2 As they have grown up, we have seen a number
3 of positive trends in youth indicators. Virtually
4 every trend having to do with risk taking has
5 declined.

6 Don't believe anybody who tells you that this
7 isn't true. You can go to the core national data and
8 over the last 15 years, whether you are talking about
9 substance abuse or sexual behavior or crime or school
10 violence, suicides, accidents, they are getting
11 better year by year.

12 It is particularly so among nonCaucasians,
13 but it is true for the generation as a whole.
14 Meanwhile, most levels of achievement are rising as
15 well, particularly math and science.

16 The verbal scores seem to be flat. Why are
17 the verbal scores flat? It is because they are
18 tested by the 20th century standards. You look at
19 the SAT. It is a 20th century test. It is not a
20 21st century test.

21 They give young people a 25-minute written
22 exam, a writing sample. 85 percent of them print it,
23 15 percent of them use cursive, and zero percent of
24 them write the way people actually do these days,
25 which is on a keyboard. Giving high school seniors

1 25 minutes of a writing exam is like giving them a
2 driving exam on a horse.

3 But this is how we are measuring them. And
4 we don't see these other things happening.

5 Clearly they have come along with the digital
6 age. They have accepted that as their pad and paper.

7 To them, mobile technology and interactive
8 technologies with user-generated content are what
9 differentiates them from X. And there actually is a
10 bright line. You can find with the 23, 24 year olds,
11 "do you IM daily," "yes." But 25, 26 year olds, "oh,
12 no."

13 Right now close to half of millenials who are
14 online say that they use IMs over e-mail as a
15 preferred form of communication.

16 There have actually been some surveys that
17 show declining telephone use and a rising amount of
18 IMing and text messaging. It is a little quicker.

19 Why wait for somebody to download an e-mail
20 when you can text them or send them an IM and get it
21 right away? So they have this different attitude
22 about it.

23 When adults look at them and say you are
24 disconnected from real life because you are always
25 listening to an iPod or cell phone or laptop, young

1 people say exactly the opposite is the case.

2 They are more engaged and involved in social
3 interaction than older people understand. They have
4 these large sets of friends with whom they are
5 sharing things.

6 The music industry has learned this, to its
7 bitter discontent. These young people want to share
8 music. They want to share it all the time. So they
9 end up being sued for that.

10 I remember the U.S. Army tried to sue Boomers
11 back in the '60s, and a lot of good that got them.
12 Who are you going to bet on, 50 somethings in suits
13 or teenagers with laptops?

14 But what you are seeing with them is a very
15 powerful peer society that has a lot in common with
16 what young people were doing with the technologies of
17 the '20s and '30s. That was a very powerful
18 team-oriented generation at that time as well.

19 You also are seeing a rise in a desire for
20 institutional trust. It has been a very short time
21 since we have been going from teenagers being the
22 least trusting to being the most trusting.

23 Older people don't quite understand this.
24 But teenagers and collegians have a higher level of
25 trust in the government than older people right now.

1 And they are also the happiest age bracket.
2 That drives 35-year-old script writers nuts, "how do
3 I write programming for a generation of happy,
4 trusting people?" Well, you have to write different
5 kinds of stories.

6 I say as a comedian that one generation's
7 punch line is the next generation's set-up line.
8 Mark Russell actually once said to me something that
9 I have found, and that is when you are telling a
10 joke, if the joke has a cultural or social frame of
11 reference, a person who is more than 20 years younger
12 than you may have difficulty laughing at that.

13 I often hear 30-somethings say today's
14 teenagers don't have a very good sense of humor.
15 Well, hello, they have their sense of humor, they
16 don't have yours. It is just how it goes in time.

17 You can actually look at the world as very
18 ironic. Millenials think it's ironic that Gen Xers
19 think everything is so ironic. It is not quite the
20 same to spike your hair green and wear black. It is
21 not quite the same as it used to be in the late '80s
22 and early '90s.

23 What you see with these young people is they
24 are sharing these technologies, they want to do that.
25 Their strongest influencers are no longer ads or

1 celebrities but, rather, parents and their friends.
2 That's really where the sweet spot of this generation
3 is.

4 It wasn't that long ago we complained about
5 young people watching too much television and being
6 easily influenced by ads. Now we are complaining
7 because they are watching too little network
8 television and not being easily enough influenced by
9 ads.

10 So you can see the whole point of this
11 generation has shifted.

12 If you watch what the GI generation did is
13 they passed through youth to middle age and their
14 peak productive years and as they became family heads
15 themselves, you can see that they really did make the
16 generations that had been wild and raucous in their
17 youth into something much more tame.

18 What Neil Howe and I are expecting to see
19 from millenials -- and we see signs of this happening
20 already -- is a renorming and a civilizing of the
21 wild Web world that the older generations have
22 created.

23 One of the major challenges for government is
24 to include these young people in the official civic
25 tasks of our society rather than battling against

1 them and to enlist the forces of history that are
2 pushing in the direction of greater institutional
3 trust in a way that will be useful to the young
4 people and to history, actually, and not to get in
5 the way.

6 We Boomers were very aware of when older
7 generations were getting in the way of our agenda.
8 The millennial agenda is not our agenda. In some ways
9 it is a corrective against our agenda.

10 Now one thing that young people are focusing
11 on in the realm of privacy, which is going to be
12 discussed here today, is the problem of what some of
13 them call oversharing. They can Google anything.
14 They can Google you, but you can also Google them.
15 And they are learning this.

16 And they are learning the dangers of the
17 reputational downside of the Internet and of IMing
18 and the like. The Foley page scandal was an example
19 of that, something that came back to bite not just
20 Foley but also the young people involved in that.

21 There are many cases that we hear of now
22 where young people realize what I'm putting on the
23 MySpace page can be downloaded by somebody with whom
24 I am applying for a job.

25 What this suggests is that they themselves

1 are going to be looking for ways of taking our
2 digital mobile, interactive, user-generated
3 technologies and establishing new mores, new manners,
4 new concepts for a modern civilization to take
5 advantage of those.

6 I would like to close with a comment about
7 technology that I got from a group in Berkeley,
8 California. It they were organizing a conference.
9 They were referring to young people. A lot of people
10 talk about Generation Y. It is a very damaging term,
11 because it keeps you from understanding what makes
12 these new people new.

13 Think are not X plus Y equals Z. They are
14 different. They were planning to do this conference
15 on the declining manners and morals of today's young
16 people and how they were wearing flip-flops and how
17 they engaged in bad cell phone behavior and always
18 doing IMing.

19 I was thinking how were young people behaving
20 in Berkeley in the late '60s? IMing was "I am." And
21 a flip-flop was probably the name of some little blue
22 pill that you took. And a cell phone was something
23 that you used to call home for bail money after you
24 got busted. Figure that one out.

25 Anyway, what these young people are doing is

1 often misunderstood by older generations. You have
2 to give them room, and you also have to give them
3 room for what is going to happen out there in the
4 larger world.

5 Realize we are not just educating them to be
6 consumers, not just educating them to have a job or
7 to be parents, but as I think we all sense, there is
8 something brewing in history that will call on them
9 to earn the subtitle that Neil and I gave them in our
10 Millennials Rising book, that is, the next great
11 generation, that there is some form of sacrifice,
12 some use of technology, some reliance on
13 institutional trust that is going to stand in their
14 own life path when they get deeper into their 20s.

15 That's going to involve the global generation
16 that they are part of. It is going to involve older
17 generations as well. And whatever we do with them in
18 technology we have to keep in mind there will be
19 larger historical forces that will also intrude.

20 Thank you.

21 (Applause.)

22 MS. SHANOFF: Thank you for a great set-up to
23 our panelists who will talk about changing trusted
24 sources and what that means for consumer outreach and
25 the focus on sharing among the people that you know.

1 Each of our panelists will speak for about
2 five minutes, and then we will open the discussion up
3 for questions, yours and ours.

4 We will start with Beau Brendler, the
5 director of WebWatch, a program of Consumer Reports
6 that focuses on trust and credibility.

7 MR. BRENDLER: Thank you for inviting me
8 here.

9 I remember seeing a Richard Thompson concert
10 here, and I think it was more than a Tech-ade ago.
11 Although I am a Generation X, but I guess I can't be
12 blamed for too much yet.

13 Judging by everybody's hand raising yesterday
14 afternoon about recognizing Consumer Reports, I will
15 assume that you all kind of know what that is.

16 WebWatch is part of Consumer Reports, and we
17 do investigation and research on Web sites. We also
18 do ratings of them and we also do some discussing of
19 issues directly with consumers, which I will get to
20 in a minute.

21 But to go back to this issue of trust or to
22 focus in on this issue of trust, in 2002 we did a
23 survey of Americans using social science methods to
24 try to figure out what characteristics of Web sites
25 generated trust among consumers.

1 In essence, what we came up with was
2 identity, a phone number, an address, who owns the
3 site, does the site actually say those things,
4 advertising and sponsorships, whether it is easy to
5 distinguish content from ads, customer service,
6 currency and for.

7 Back in 2002 for Web sites and for consumers
8 at the same time to say these are the principles that
9 we have learned make for a relatively trustworthy Web
10 site, the underlying principle being disclosure,
11 don't hide anything.

12 Then a little later on in our history we
13 worked with B.J. Fogg, who didn't get involved too
14 much with stuffed monkeys at that time, but what we
15 did do was we looked at a huge number of consumers.
16 Everything I will refer to in terms of research you
17 can find on our www.consumerreports.org, including
18 this study.

19 We subjected a large number of sites to
20 analysis by consumers to try to come to some
21 determination as to which ones they thought were
22 trustworthy, and then we did at the same time a study
23 where we had experts look at the same sites. In
24 essence, what we found out from the consumers was
25 what B.J. hinted at kind of yesterday in his video,

1 consumers tend to be attracted by technology and
2 layout and color, they think blue Web sites are
3 believable.

4 To the experts, on the other hand, who are
5 looking at health sites and financial sites, depth
6 and expertise is important, sourcing is important and
7 separates ads from editorial.

8 We did some follow-on studies after that and
9 developed guidelines for travel sites and also for
10 search engines and health sites. To touch on the
11 research we have done over five years related to the
12 trust issue, we just published a ratings of the 20
13 most trusted health information sites.

14 Of those 20, 12 of them rated either fair or
15 poor. Six of them rated poor, and several of the
16 ones that rated poor were ones that were directly
17 sort of built by industry organizations. One was for
18 Dannon yogurt. I have no objection to yogurt. And
19 the other was for supplements.

20 The people who rated the sites was a panel of
21 19 people who were doctors, people who knew those
22 types of Web sites.

23 The ways that people try to interpret on
24 their own what makes a trustworthy Web site can be
25 rather complicated. Over the course of our time, we

1 have had a lot of folks who call and ask us do you
2 know this site is trustworthy, is it good or bad?
3 And there are a few examples, in ascending order of
4 complexity. It will make sense at the end.

5 We had someone call us up and ask if he could
6 help us because he had gotten to a media site and
7 bought a bunch of laptops and they hadn't arrived
8 yet. Well, I'm afraid you are up the Danube without
9 a paddle and we can't do much about that.

10 We had another caller who said I'm having
11 trouble with this site, it is a prestige who's who
12 guide and I'm a little worried about giving my money
13 to them. We were able to go through the site with
14 him and the site doesn't look too bad, but there was
15 a phone number on there. We called it and the phone
16 was disconnected. We also found out the directories,
17 anybody can sort of nominate themselves and be in the
18 directory.

19 Then we had some folks ask us about a site
20 called www.courtrecords.org, which I will come back
21 to later. I'm actually on the panel at 4:00. I will
22 refer to that again. But we took a look at that site
23 and had to pay money to join the site to figure out
24 it was in fact a scam.

25 So we sort of took on the responsibility

1 there for actually investigating a site and helping a
2 consumer figure out it was not in fact worth
3 trusting.

4 The last example I want to give here is
5 WebWatch Stopbadword.org, and this report actually
6 came out today, I believe, from Stop Bad Word. This
7 is an analysis they did. It was a site called Fake
8 Mailer, installs a Trojan horse, claims to have no
9 bundling but is bundled, redirects invalid Web
10 addresses and is difficult or impossible to
11 uninstall.

12 That's not nearly as bad as the site called
13 FastMP3 SearchPlugin, which installs additional
14 software without disclosure, installs Trojan horses,
15 disabling Windows firewalls, redirects valid Web
16 addresses, bundles applications, adds tool bars,
17 changes users home page, displays pop-ups, compares
18 computer performance and is impossible to uninstall.

19 That's bad. Those are out there. It is not
20 all that easy to come up with a portable set of
21 guidelines to give to consumers to say you can think
22 about these things to determine whether or not this
23 site is trustworthy.

24 Generationally, we do have some concern that
25 younger consumers perhaps don't see as much value in

1 expert content, which is not necessarily a bad thing,
2 but it can in certain circumstances lead to what one
3 writer called the culture of an amateur.

4 McLeans Magazine -- it is sort of the
5 Newsweek and Time magazine of Canada -- they just ran
6 a very long article called "Pornography, gambling,
7 Lies, Theft, and Terrorism, the Internet Sucks." It
8 will raise emotions. In there they talk about
9 something Wikipedia. It is funny. This is a
10 Wikipedia entry that appeared and they observed it.

11 "On Wednesday, July 5th, Ken Lay" -- this is
12 the writer of this piece -- "the former chairman and
13 CEO of Enron Corporation, died in Colorado."

14 The news first hit the wires at 10:00 a.m.,
15 and at 10:06, Wikipedia proclaimed that Lay had died
16 of an apparent suicide.

17 Two minutes later somebody changed the entry
18 to say that Lay had died of an apparent heart attack
19 and suicide.

20 Less than a minute later someone said the the
21 cause of death was yet to be determined. At 10:11,
22 the entry was changed again, this time asserting the
23 guilty verdict had led him to suicide.

24 A minute after that, someone cited a news
25 report that according to Lay's pastor, the cause of

1 death was a massive coronary heart attack.

2 At 10:39, one of the Internet's anonymous
3 self-taught cardiologists wrote speculation as to the
4 cause of the heart attack leads many people to
5 believe it was due to the amount of stress put on him
6 by the Enron trial.

7 Finally, a few hours later the entry was set
8 straight. I was joking earlier with a colleague that
9 we should go on there now and see if Wikipedia has
10 named Bill Gates the new Secretary of Defense.

11 I don't want to be too hard on Wikipedia.
12 But I do want to say that trying to develop a set of
13 ideas or a map to help you determine whether a site
14 is trustworthy or not can sometimes be difficult. I
15 will stop there because I want to make sure my other
16 colleagues get to speak.

17 MS. SHANOFF: Really a lot to think about and
18 a lot to talk about.

19 Scott Shipman, senior counsel for global
20 privacy practices at eBay.

21 MR. SHIPMAN: Thank you. It is a privilege
22 to be here today with the FTC, the panelists and
23 certainly the attendees.

24 My job is I'm essentially responsible for our
25 global privacy practice for eBay, Inc., and that

1 entails PayPal, including Shopping.com and Rent.com
2 and about 30 other brands.

3 I was asked to share my views today on trust,
4 and I suspect it is because eBay is a brand that is
5 well known and certainly to some level or another
6 trusted by consumers.

7 I was glad to see, for those of you who were
8 here on Tuesday, the video where the woman commented
9 on eBay and she couldn't believe she was asked how
10 people would buy in an anonymous, faceless
11 transaction and yet look at the success that the Web
12 site has today.

13 I won't mention that she was a plant,
14 certainly glad to see that she said those comments.

15 From what I have heard over the last few days
16 and even from what I have heard recently is with
17 trust, trust is really formed and fostered by
18 communication and choice. What I'm going to do in a
19 minute is highlight some of the things that we do
20 that I think help in that realm.

21 However, one of the things that I think is
22 very important to keep in mind when you are talking
23 about trust and communication and choice is that it
24 doesn't mean perfect security. It doesn't mean
25 perfect transactions. It doesn't mean perfect

1 reputations.

2 Software is hacked, mistakes in transactions
3 happen, reputations evolve. I think the key to trust
4 is communicating honestly and clearly and providing
5 consumers with choices when those events happen.

6 I have heard a number of different things.
7 So first and foremost, PayPal is blue. So PayPal is
8 trusted. Another comment that I heard was that we
9 are talking about the millenials and how they are
10 sharing and they are sharing lots of information, and
11 what I'm going to do here is step through PayPal,
12 eBay shopping opinions and provide some examples as
13 to how I think trust is really building and evolving,
14 whether it is between millenials or Gen Xers or even
15 my parents, the Boomers.

16 And I think that the notion, as you said
17 earlier, with sharing varies as you go through those
18 different generations. Sometimes it is providing
19 that choice to those generations and other times it
20 is not.

21 So to start with PayPal, in the prior
22 conversation I was recalling the financial services
23 panel that we had. There was a beta on paying
24 without sharing your financial information. That
25 beta has been in existence for about five years now.

1 That is called PayPal. You don't share your
2 financial information with the person whom you are
3 paying. That's the way it works.

4 The second part of that panel talked about
5 mobile and other technologies. In fact, today if
6 anybody on the panel wanted \$5, I could text them
7 with my cell phone right now and you would have \$5 in
8 your PayPal account.

9 Those technologies exist today. One of the
10 key components is it is shopping, as we say, without
11 sharing. You don't share your financial information
12 with the seller. You don't have to worry about the
13 waiter running behind the scenes and taking your
14 secret code down on your credit card and coming out
15 with a new computer the next day.

16 That's one of the enabling technologies that
17 I think really helps foster trust.

18 Within PayPal, there are a host of other
19 examples, such as buyer protection. Some people
20 might say it is safer if I pay with a credit card.
21 But buyer protection on PayPal, as long as you pay
22 with PayPal, guarantees that purchase.

23 Cell phone payments, there was a concern that
24 with cell phone payments that little code is not
25 secure. In fact, when you make a payment through

1 your cell phone, you receive a text message back that
2 confirms that you made that payment from your phone.
3 You then have to provide an opinion to validate that
4 payment.

5 We have an online safety center on PayPal
6 that talks about how you can educate yourself. So in
7 this case we are pushing a message to consumers. And
8 as millenials really gather and soak up information,
9 and certainly Gen Xers do the same, that's an area
10 where they can self educate.

11 We also have two-factor authentication. To
12 the extent people want that additional security
13 token, they can do that.

14 Additionally, within the company globally we
15 have around 2000 people working on antifraud
16 techniques, not public facing but behind-the-scenes
17 systems in place to protect customers' information.
18 On top of that, as many of the industry leaders have
19 come out, free credit report, free credit monitoring,
20 so you have the opportunity to have free credit
21 monitoring.

22 Again, it is about choices and it is about
23 communication, providing the various customers with
24 the opportunity to choose and select their level of
25 comfort with a Web site. It is not just the fact

1 that PayPal is blue.

2 On the eBay side, I think there are some
3 unique differences in addition to what PayPal is
4 doing. That's been a challenge to the brand. When
5 we look at our trust measurements, they are still
6 very trusted brands. You say that must be a delicate
7 balance and a tough brand reputational issue.

8 It is not about perfect security, not about
9 perfect reputation. It is what are you doing, how
10 are you communicating. When you look to eBay, it has
11 a tool bar you can use if you are not on the site you
12 believe you are on, and it will detect that, blink
13 red and allow you to report that site to a network of
14 companies that eBay has helped create that allows
15 that site to be taken down by ISPs immediately.

16 When you enter in your password or eBay user
17 ID on a site that might not be eBay, it allows you to
18 say no, I approved this, this is a site that I do use
19 the same password and user ID for, or "no, block this
20 report and send that to ISPs."

21 We have fully deployed domain keys which is a
22 way of authenticating our e-mail addresses. To the
23 extent that you receive an e-mail and it has been
24 authenticated, ISPs have the option to block that
25 from ever even being delivered to you.

1 At this point ISPs aren't doing the blocking
2 technology yet, but that essentially means every
3 e-mail we send, to the extent it comes into your
4 inbox, it is from us.

5 An additional choice is you can always go to
6 eBay and review your message center to determine
7 whether or not we sent the message. If it is not in
8 there, we did not send it. You may have an e-mail
9 that did not come from us.

10 Those are a few tools that eBay has within
11 the eBay marketplaces. There is fishing tutorials
12 and the feedback system within eBay, also within
13 opinions and also within Shopping.com was at the time
14 revolutionary and one of the critical places that
15 allow consumers to buy in a faceless transaction.

16 It is not about having 100 percent feedback
17 about each and every transaction you have had, but it
18 is about what is the overall reputation, what are
19 people saying about my transactions. When looking at
20 sharing, that is open to the world. Anybody can view
21 the feedback left by anybody else.

22 It allows the market and economy to dictate
23 whether someone feels comfortable purchasing from one
24 individual or another based on is it 99 percent, do
25 they have a thousand feedback but are 999 negative

1 and therefore it's a net positive of one.

2 There are a lot of variables there that allow
3 people to make an informed decision.

4 Lastly, jumping down to Skype, one of our
5 newer companies and one we are still in the process
6 of folding into the corporate development cycle, one
7 of the things I also heard earlier -- I believe it
8 was on Tuesday -- was the notion that people aren't
9 really believing or contemplating the fact that if I
10 have information at my house, naturally I know if the
11 government is going to ask for it because it is at my
12 house.

13 When I trust a service provider, when I trust
14 a third party, they are storing that information, but
15 I will not necessarily know if the government is
16 asking for it. There is nothing that requires me to
17 be notified that I'm using a third party and the
18 government is now asking for my information.

19 One of the unique things with Skype is it
20 allows people to communicate, allows people to
21 communicate via phone, via video and chat, which is
22 certainly one of the tools using to reach out to
23 millenials because it is a way to push communication
24 into a form that they are used to, whether it is a
25 designated Web phone or whatever it might be.

1 The simple fact of the matter is those
2 communications are encrypted and it is peer to peer
3 which means your communication, your chat
4 conversation is not stored in some central server
5 that the government can access. It is a
6 communication between you and whomever you are
7 communicating with, whether it is 100 percent chat or
8 a Skypecast, as we are saying. It is between you and
9 those people, not between a central server, and,
10 therefore, your information is really ultimately in
11 your control.

12 So those are a variety of examples that I
13 think all help show that it is about choices, it is
14 about providing customers with lots of different ways
15 to communicate, lots of different ways to trust, lots
16 of different ways to pull information such that they
17 can feel that a Web site is a trusted place or that a
18 partner or that a buyer or seller is a good person to
19 do business with.

20 MS. SHANOFF: Thank you very much.

21 Solveig Singleton, senior adjunct fellow and
22 a visiting fellow at the Independent Women's Forum.
23 She has written on how technology benefits women.

24 MS. SINGLETON: Thank you. I should also say
25 I'm a rabid eBay purchaser, both a seller and buyer.

1 We are talking about trust and communications
2 with consumers and demographics. I have three points
3 I want to make.

4 The first is the demographics and the way it
5 is changing is going to make traditional law
6 enforcement very, very difficult. It is going to be
7 spread really thin. But nevertheless, we are going
8 to see really trusted and institutions of trust are
9 not going to falter. The market will continue to
10 support them, to expand them, as it always has, with
11 all kinds of different feedback mechanisms.

12 First, as to the enforcement point. I'm a
13 little skeptical of some of the generational
14 observations about informal networks and peer to
15 peer, because one of the phenomenon of all this
16 mobile technology and so on and so forth in the hands
17 of the new generation is as a general rule, they are
18 not paying for it; their parents are.

19 So there are certainly avid users of all
20 these devices, but what happens when they start
21 having families and all of a sudden the iPod that
22 they lose because they have left it on a bar for like
23 the third time isn't being replaced out of their
24 parents' budgets, it is coming out of theirs.

25 I think some of their behavior will change as

1 they get older. There will still be a lot of formal
2 mechanisms of trust as well as the informal peer to
3 peer ones.

4 Basically the demographic picture as a whole
5 is really going to make traditional regulatory
6 enforcement very difficult or almost impossible.
7 There is not only the complexity of the technology,
8 the mobility, the informality of it, there is the
9 fact that the population of transactions and people
10 online is going to be enormous, just the sheer number
11 of small-value transactions.

12 A lot of these are going to be international,
13 people buying very lightweight, easily shipped
14 objects from other countries. Regulators will find
15 themselves doing what they are already doing in the
16 Spam context, which is they will bring some big
17 cases.

18 This is important to set things right in
19 those cases. But they will not be able to bring
20 enough cases to have a substantial deterrent effect.

21 There has been a lot of research in
22 deterrents in every context, from taxes to drugs to
23 speeding to wife battering, and it also addresses the
24 same thing, that what deters is getting above a
25 certain threshold likelihood of getting caught. It

1 is not the severity of the penalty.

2 If you are below a threshold -- and we are
3 certainly below that threshold, unfortunately, with
4 Spam -- well, then, some other set of institutions is
5 going to have to step in.

6 We have already seen the tremendous power of
7 markets to respond to demand and shore up these trust
8 institutions and create new ones. EBay is one set of
9 example.

10 Generally this market responsiveness to
11 demand is something that has been invisible. It is
12 the invisible hand. It is invisible because we are
13 almost always aware of it if something goes wrong,
14 and the vast majority of transactions that are
15 nothing out of the ordinary don't really get noticed.

16 But as this phenomena continues, there will
17 be a lot more explicit trust institutions that are
18 created by markets, insurance that is offered by
19 PayPal, ratings, feedback. People will be able to
20 see that part of it working.

21 There's another part of it that is going to
22 stay invisible but I want to talk about in a little
23 bit more detail. That's one of the strengths of how
24 this market process works, is it assesses the need
25 for trusted institutions by looking at what people do

1 much more than by what people say.

2 We have had a glimpse here up there of what
3 it is people say when they are asked about trust, and
4 some of their responses don't really seem to make all
5 that much sense. But what you see in the market is
6 what's the bottom line.

7 Are they clicking on the button, are they
8 buying, are they not buying, are they hesitating over
9 part of a Web site? What part of the Web site are
10 they hesitating on?

11 The elections yesterday, there was a lot of
12 polling beforehand, and as long as it is not push
13 polling, it can be reasonably accurate. The bottom
14 line is we pick elected officials by actually having
15 the election, not based on the poll, because what
16 people actually do when they go out to the polls is a
17 much better way to learn about their true
18 preferences.

19 E commerce sites have an opportunity to watch
20 what people do all the time. They can't help but
21 notice it. Someone is getting to a certain part of
22 the Web site, and every single time they click off,
23 or a lot of people hesitate before going through with
24 the transaction. What's going on here? They have an
25 opportunity there to respond.

1 One example, there was a national retailer
2 who when people did a product search, they would
3 always ask for a zip code, and the people noticed,
4 "hey, when we asked for the zip code, they are not
5 giving us it and they are going away. What are we
6 doing wrong?"

7 People think that's weird. They haven't
8 bought anything yet and you want to know my zip code,
9 what's going on?

10 So we will tell them why we are using it. We
11 would like your zip code so we can search warehouses
12 in your area to see if the product is available.
13 That was all they needed. No legalese, no boxes to
14 check.

15 Just a little sentence and problem solved.
16 People were like, oh, okay, now I see why you want my
17 zip code.

18 So there's a tremendous amount that can be
19 learned here from observing people's behavior. In
20 this sense, often information is going to be more
21 supportive of trust than privacy or anonymity in the
22 sort of abstract sense, philosophical sense. People
23 will make better decisions when they have more
24 information, not less.

25 MS. SHANOFF: You have about two more

1 minutes.

2 MS. SINGLETON: That's fine. I'm almost
3 done.

4 One of the perpetual things people bring up
5 here is market failure. There's a growing economic
6 literature where people are questioning a lot of the
7 traditional theories of market failure and basically
8 saying, wait a second, it is really not all that
9 common, and if you think you have found one, you
10 better check your assumptions, and chances are if you
11 just wait, it will self correct.

12 Things that the market are not doing is an
13 opportunity for someone to figure out how to do it
14 and provide a service.

15 So by and large, the power of demand to get
16 consumers what they want and what they need is
17 really, really awesome. There are some weak points.
18 One is, as you probably seem to have noticed in your
19 own surveys, services and sites that are offering
20 things for free, usually funded by selling
21 advertising, the consumer isn't really the person
22 they are selling to. The person they are selling to
23 is the advertiser.

24 They are not as responsive to consumers in
25 the same way. P to P downloading software is a good

1 example of that. It has led to a lot of people
2 inadvertently sharing personal information to the
3 extent people were mining peer-to-peer sites for
4 Social Security numbers.

5 The Patent and Trademark Office is about to
6 release a study on this. This has continued to be a
7 problem, even though the P to P companies have denied
8 it repeatedly.

9 The reason they are not responding to demand
10 there is because the consumers aren't their demand.
11 It is the advertising.

12 Just to close, market failure is the monster
13 in the closet, but government failure is the abusive
14 stepfather down the hall. It is much less a
15 theoretical problem, it's coming but it is going to
16 be okay.

17 MS. SHANOFF: Well, we actually don't have
18 time for questions. We were going to have some
19 questions. We were going to go out -- I have lots.
20 But we don't have time.

21 We were going to go out with a song that Bill
22 brought. Unfortunately we can't play it. There is a
23 technical glitch.

24 Before we turn it over to Eileen, I would
25 like you to say in a sentence or a word what advice

1 do you have for us at the FTC in terms of an
2 institution like the FTC for reaching key audiences
3 in the next 10 years.

4 I was going to say enough about you, let's
5 talk about me, but we have no time for that. If you
6 would give us your quick last best thought on how we
7 can reach consumers with really key messages.

8 I think education is really important,
9 sharing consistent messaging, really important. So
10 for our organizations to work together, pretty key.
11 I would like to hear what you have.

12 MR. STRAUSS: Number one, hire brilliant
13 young people. When you hire them, listen to them,
14 try to help them construct an infrastructure in which
15 you can harness technologies for civic purpose and
16 don't get in the way.

17 I think above all, I would respond to your
18 point about millenials by suggesting that everybody
19 think positively about young people. It really
20 helps.

21 I don't try too much to speak for teenagers.
22 I think what a teenager might say in response to your
23 point of wasting money on the iPod, well, look at
24 adults buying Hummers with all of the gas, realizing
25 that they are globally depleting resources that they

1 will have to deal with over their lifetime, and
2 wasting a little extra money on plastic and silicon
3 chips is nothing compared to that.

4 MS. SHANOFF: I was young once. Thank you.
5 A fine point.

6 MR. BRENDLER: Talk to as many real consumers
7 as possible outside Washington and New York, and then
8 I'd say enforce what things that you can and punish
9 bad people and publicize it.

10 MR. SHIPMAN: I'd say partner with companies
11 and communities with the people you are able to reach
12 and embrace the technologies they are using rather
13 than laughing at those technologies. So Skype-casts,
14 those type, iPod, those types of things.

15 MS. SHANOFF: Thank you.

16 MS. SINGLETON: Design a game. There is a
17 great one that's already out there where a child can
18 play it, and their objective is to find a missing
19 child, and they learn that way about dangers on the
20 Internet and safety. So design consumer protection
21 games.

22 MS. SHANOFF: Will do. Take a look at
23 EnGuarde online.

24 Thank you very, very much.

25 (Applause.)

1 MS. HARRINGTON: Thank you very much. We are
2 now moving into an area that is really all about
3 trust, and that is privacy.

4 Before we go to the video, you all have your
5 little polling devices. We will do a quick polling
6 question here.

7 I understand that I can ask questions without
8 any prior plan to do so. So here's the first
9 question. Would you like to stand up for 10 seconds
10 and stretch before we go forward? Number 1 is yes,
11 number 2 is no, and number 3 is I prefer to keep that
12 information to myself.

13 If we can get our polling up, get your
14 polling device. Number 1 is yes, number 2 is no, and
15 number 3 is I prefer to keep that information to
16 myself.

17 Helen, you can make your way to the podium if
18 you like. We are going to multitask here. Okay, 10
19 seconds. Don't leave your seat, stretch.

20 Now we have a little video and then we are
21 going to hear from Helen Nissenbaum.

22 (Whereupon, the video was played.)

23 MS. HARRINGTON: We have a real polling
24 question now.

25 What level of information are you comfortable

1 with sharing online? What kind of information of the
2 following categories are you comfortable, most
3 comfortable with sharing online?

4 Number 1, no personal information at all;
5 number 2, name and address; number 3, name, address,
6 phone number, e-mail address; number 4, Social
7 Security number, date of birth, blood type.

8 Okay, there we have our results. Helen, that
9 probably blew your whole theory. So you can come
10 back and sit down.

11 MS. NISSENBAUM: I'm done. So I should
12 start?

13 MS. HARRINGTON: Yes.

14 MS. NISSENBAUM: I should say from the outset
15 that I'm a philosopher, just in case that makes a
16 difference to what I say beyond this. But for the
17 past few years, I have been working on a theory of
18 privacy as contextual integrity.

19 I have published several articles, lately
20 with some computer scientists, to formalize the idea
21 rigorously and also working on a book. This theory
22 says that preserving privacy is a matter of context,
23 of respecting context-based norms governing the flow
24 of personal information.

25 Now, I started paying attention to privacy in

1 relation to advances in information technologies
2 around the time of Lotus marketplace households.
3 That you may recall was a CD that Lotus and Equifax
4 were going to collect of aggregated information about
5 millions of U.S. households.

6 It was a philosophically interesting problem
7 or event because, first of all, it rallied tremendous
8 public protest by the Internet in particular. That
9 was also quite new.

10 People resisted this technical advance and
11 they thought it was wrong. They protested, and
12 eventually the idea was dropped.

13 But the protest really didn't make sense in
14 light of the prevailing theories and policies on
15 privacy at the time, whose general defense was you
16 protect privacy of private information. And the
17 defense of this particular product was there was no
18 private information, everything was already out
19 there.

20 So either public reaction was misguided or
21 the prevailing theories were missing something.

22 Over the next decade we didn't seem to be
23 getting much better at resolving these controversial
24 cases. You would see the same cycle go over and over
25 again.

1 First there would be a new technology,
2 something of great promise, new practices came
3 forward, there was great enthusiasm. But at the same
4 time, a lot of outrage from the general population,
5 the privacy advocacy community. There was
6 consternation and battle.

7 It didn't feel to me like a lot of progress
8 was being made. I had a sense of being Bill Murray
9 in the movie Groundhog Day.

10 So I decided that there was an important role
11 here for the philosopher to play. We are not
12 renowned for action. That was to try and develop a
13 justificatory framework for answers to some of these
14 puzzles that we were facing over and over again and
15 that seemed to repeat in a particular cycle.

16 A justificatory framework would give
17 structured reasons for resolving disputes, for
18 guiding policy, for supporting some practices of
19 others and for promoting certain elements in
20 technology design. And in some of the other work I
21 do, I'm very concerned about the values that are
22 embedded in technical design.

23 I disagree with a speaker earlier today who
24 talked about technology's neutrality. Let's call
25 these outcomes. What sort of reasons could we give

1 for the outcomes that we wanted to support?

2 These reasons had to go beyond balancing
3 interests, something that I call an economic
4 approach. We didn't want to go in and only look at
5 the stakeholder interests and decide how to balance
6 these interests. And in fact, if you look at Lotus
7 marketplace households, the legacy of that has been
8 very disappointing.

9 If you look at Choice Point and Acxiom, we
10 are so beyond the Lotus marketplace households that
11 although there was a victory for the privacy
12 advocates of that day, I would say that pales by
13 comparison to what we are experiencing today.

14 What we want is research that all members of
15 the political community can accept because they are
16 grounded in social and political morality of our
17 community.

18 Early on in my studies I came to believe
19 three things. First, control over information by the
20 data subject. We have heard it mentioned today that
21 consumer choice is not the Holy Grail, though it is
22 part of a large picture.

23 Number 2, the private-public dichotomy that
24 so much of the work on privacy has adopted is leading
25 us astray and it is holding us back in our efforts to

1 grapple with technology-induced puzzles.

2 Number 3, we were squandering a wealth of
3 social information that plays hugely into people's
4 assessments or judgments that a given activity or an
5 application of a technology is a violation of privacy
6 rights, but in my theory I call it contextual
7 integrity.

8 These were the foundations of this theory
9 called the theory of contextual integrity.

10 Now, this theory is not a discovery of
11 something radically new. I believe that we all
12 actually know about the ideas in this theory. It is
13 an attempt to bring these ideas forward and also
14 express them more systematically and make them a
15 little bit more rigorous.

16 Indeed, what I want to do is draw your
17 attention to a case in which the FTC was involved
18 where the FTC had developed rules that were dealing
19 with security and confidentiality and they were sued
20 by Transunion and the Individual References Services
21 Group. I won't discuss the details of the case.

22 The major point of disagreement was whether
23 information and credit headers, including name,
24 address, phone number and Social Security number,
25 should be covered by the FTC's rules. The FTC said

1 yes and the plaintiffs said no.

2 The court decided in favor of the FTC. The
3 move that was really interesting to me was that the
4 court refused to draw a distinction between
5 information that was somehow intrinsically financial
6 and information that was not. Rather, it accepted
7 the FTC's rationale that any information should be
8 considered financial information if it is requested
9 by financial institutions for the purpose of
10 providing a financial service or product.

11 Now, there are four factors that are crucial
12 to this theory of contextual integrity. My claim is
13 that what matters to people when the flows of
14 information and the changes in flows of information
15 that are brought about by technology or particular
16 technical systems or devices is and here are the four
17 crucial factors.

18 One is what is the context of a particular
19 action or practice in question? Is it financial? Is
20 it health care, education, religious observance or
21 social, family, dating, et cetera? Two, who are the
22 parties involved and what are the capacities in which
23 they act? And by the parties we have the data
24 subject, we have the recipient of the information.

25 So is it a patient, is it a student, is it a

1 date, a customer. The recipient, a secretary, a
2 professor, a parent, a friend, and the transmitter of
3 the information who may in fact also be the data
4 subject.

5 The third factor is the type of information
6 in question, not just public or private but is it the
7 physical condition, religious affiliation, how many
8 spoons of sugar you take in your coffee, what side of
9 the bed you sleep on and your sexual orientation and,
10 of course, more and more and more.

11 And number 4 is something that I call
12 transmission principle. That's the fourth factor
13 that people are very attune to. And that is what are
14 the conditions in which information flows from one
15 party to another. Is it a condition of
16 confidentiality? Is the information bought and sold?
17 Is it given by the data subject under the data
18 subject's control or volunteered by the data subject?

19 This is where control enters the picture. Is
20 it given because it is demanded of the data subject
21 and so on. All these transmission principles make a
22 difference.

23 People are attuned to all four of these
24 factors, and they are sensitive to them when they are
25 making an evaluation that their privacy has or has

1 not been violated.

2 Apropos this little poll that we just took --
3 and, of course, there is a lot more to say here but
4 I'm aware that my time is up. Eileen is nodding. I
5 don't have another half hour to develop these ideas.

6 But I would recommend to those who are taking
7 future polls, those who are designing technical
8 systems, those who are making policy to ask questions
9 about all four of those factors so that the next time
10 someone asks you do you feel comfortable giving your
11 name or your blood type, et cetera, online, I think
12 it is quite appropriate to say, well, you need to
13 specify that question more.

14 Of course, I would feel comfortable if it was
15 my physician asking me to tell my blood type, knowing
16 that my physician is bound by norms of
17 confidentiality.

18 These kinds of questions that are being asked
19 will not give us the kinds of information that we
20 need if we want to know how consumers feel about
21 their privacy. And I would love to see a lot of
22 social scientists going into the variety of social
23 contexts in which we share information to understand
24 a lot better what these norms are and how we can move
25 into the future with our new technical systems.

1 Thank you.

2 (Applause.)

3 MS. HARRINGTON: Thank you, Helen.

4 We have been having a very serious and public
5 discussion about privacy at the FTC for over a
6 decade, really, beginning with the hearings in 1995.
7 Today we are unfortunately able to present only a few
8 more facets.

9 We are trying to continue our discussion and
10 exploration by looking at several different facets,
11 some new to us, including Helen's discipline brought
12 to the table. So thank you very much.

13 Now for a very different focus, Joe and Chris
14 are going to present some research.

15 MR. HOOFNAGLE: Thank you and good afternoon,
16 everyone. I'm Chris Hoofnagle from the University of
17 California at Berkeley. I'm doing new work in
18 preparing for FTC Tech-ade, and I was looking at the
19 research that we were performing at UC Berkeley and I
20 realized it was complemented greatly from Professor
21 Turow of the University of Pennsylvania in Annenberg.

22 It also will be available online. It
23 basically gives advice to the Federal Trade
24 Commission about what challenges it must confront in
25 the upcoming decade.

1 So we all know that over the past 10 years
2 since the Federal Trade Commission's last
3 forward-looking hearings on the global marketplace
4 that the FTC has taken a market-based approach.

5 They have said we are going to let self
6 regulation flourish. They have said we are going to
7 have notice, choice and security, some access and
8 accountability, and they made interventions for
9 certain issues, such as children's privacy and
10 telemarketing.

11 And the working assumption that the Federal
12 Trade Commission has followed is if we have good
13 information, if consumers have good information, they
14 will be able to make good choices in the marketplace.

15 The slide show is working. Is self
16 regulation working? I think that's a question that
17 is worth a lot of critical inquiry.

18 We know that people care about privacy. If
19 you can ask them about how they care about privacy,
20 they will respond with very intense interest in
21 protecting personal information.

22 But at the same time many economists will say
23 people care about privacy but what really matters is
24 what they do. They seem to care about privacy, but
25 then they go online and they share their e-mail

1 address and blood type and Social Security number and
2 do all these things that are not perhaps very smart
3 and aren't very protective of privacy.

4 However, from experiments we have done at UC
5 Berkeley, we do know that consumers take action to
6 protect their privacy. But they are frustrated in
7 effectuating their intent by a number of factors,
8 their economic, their framing issues, their
9 psychological issues.

10 And I think as we move forward into the next
11 decade as information collection becomes less
12 transparent, as people know less about how the
13 business practices work and less about how the
14 technology works, there are serious questions as to
15 whether or not self regulation will protect people's
16 privacy adequately.

17 MR. TUROW: We asked some questions at the
18 Annenberg Public Policy Center. Each one had 1200
19 people in representative samples of the United
20 States. The first one, they were people who had the
21 Internet at home and the second one is people who had
22 used the Internet in the last 30 days.

23 When we gave them the statement "I am nervous
24 about Web sites having information about me," 70
25 percent in 2003 said they agreed or agreed strongly.

1 In 2005 it was 79 percent.

2 A number of questions were asked. There is a
3 consistency that is fascinating. Consumers see both
4 business and government as threats when we asked do
5 you think these entities can help with your privacy.

6 92 percent worried about the commercial
7 marketers and 83 percent worried about government.
8 We asked the question in other ways too. There is a
9 real concern about government protecting people just
10 as there is private entities.

11 When we asked about the use of the term
12 "privacy policy," we got a fascinating set of
13 answers, again, in two separate years. We gave them
14 the statement "when a Web site has a privacy policy,
15 it means the site will not share my information with
16 other Web sites or companies."

17 Now, we all know that's not true. In 2003,
18 57 percent agreed or agreed strongly with that
19 statement. In 2005 we did it somewhat differently to
20 see if maybe the phrasing had something to do with
21 it. We asked if it was true or false. 59 percent
22 said it was a true statement.

23 Beyond this basic misconception, which I
24 think is really basic because people see the words
25 "privacy policy," the label as having a particular

1 meaning, consumers hold many misunderstandings about
2 marketplace practices online and off-line. As you
3 know, the two are very much interpenetrating.

4 These are just some of the findings in our
5 survey in 2005. These were true/false statements.

6 "Most online merchants give me the
7 opportunity to see the information they gather about
8 me." The answer is false. But 47 percent got that
9 wrong. That is actually one of the lowest percentage
10 of wrong.

11 "Most online merchants allow me the
12 opportunity to erase information they have gathered
13 about me." 50 percent got that wrong.

14 "A Web site is allowed to share information
15 about me with affiliates without telling me the names
16 of the affiliates." 49 percent got that wrong.

17 "When I give personal information to a bank,
18 privacy laws say the bank has no right to share that
19 information, even with the companies that the bank
20 owns." 73 percent got of the people got that wrong.

21 Parenthetically, we asked a statement about
22 fishing, which is not up there. The great percentage
23 of Americans don't understand what fishing is.

24 "When I give money to charity, by law that
25 charity cannot sell my name to another charity unless

1 I give it permission." 72 percent got that wrong.

2 "It is legal for an online store to charge
3 different people different prices at the same time of
4 day." 62 percent got that wrong.

5 "It is legal for an off-line store to charge
6 different people different prices at the same time of
7 day," and 71 percent got that wrong.

8 If you go to our study which is online at the
9 Annenberg Public Policy Center, you can see the
10 complex feelings and knowledge that Americans have
11 about the notions of price discrimination when they
12 don't know that it's going on.

13 Now, consumers also believe that many common
14 practices shouldn't be acceptable. We gave them
15 scenarios and one in particular where we said name us
16 your favorite Web site, and we asked about the Web
17 site and then we said what if the Web site took
18 information, gathered information about you and
19 mostly anonymously used it to serve you ads, a
20 typical kind of information use policy on a Web site.

21 85 percent of the people when they heard that
22 scenario rejected that common tracking information
23 extraction and sharing model that we used on the
24 Internet when it was explained to them.

25 And through a number of other types of

1 questions in that survey we basically came to the
2 notion that Americans have very little clue about the
3 data gathering and mining that goes on behind the
4 screen.

5 They understand that data are being taken
6 from them. They know they can be followed on the
7 Web. But they really have no understanding of how
8 individual bits of data can be used in technical
9 ways.

10 MR. HOOFNAGLE: So the traditional retort to
11 Professor Turow's findings is that people say they
12 care about privacy, but they do, that's what matters.

13 This is how our research at UC Berkeley
14 complements yours quite well. When we did a study of
15 Internet users and we actually have a lab at Berkeley
16 where we hire research subjects to do tests, 75
17 percent adopted at least one privacy protection
18 strategy. That includes doing things like lying,
19 putting down false information to hide their true
20 identity when interacting on a Web site or
21 withholding payment, not going through the
22 transaction because they are concerned about privacy.

23 These results are supported in other aspects
24 as well. We all know Professor Allen Weston, he put
25 out a survey two years ago that said that even people

1 who say they don't care about privacy, the so-called
2 privacy unconcerned, the people who say privacy is
3 already gone, it doesn't matter, a very large percent
4 of them took at least four of seven
5 privacy-protecting tactics that Professor Weston
6 presented to them.

7 Of course, as you get to the pragmatists,
8 that number increases greatly. So people care about
9 privacy. They are trying to protect it.

10 What we have done in the United States,
11 hoping my slide goes, is we have relied on the idea
12 that privacy notices will help educate individuals
13 and help them make good choices about privacy.

14 However, when we studied a form of privacy
15 notice, known as the end user license agreement --
16 this is essentially a contract which comes with the
17 software -- people generally do not read them, and
18 when they do read them and later install the program,
19 they still don't understand key terms of the bargain
20 and they still regret their decisions.

21 So at UC Berkeley one of the ways we have
22 determined whether or not a privacy choice is good is
23 we ask users after they have taken some action
24 whether or not their choice was regretted. And huge
25 percentages of individuals say they have regretted

1 the decision they have taken.

2 When you change the condition a little bit,
3 when you give them a short notice instead of this big
4 long EULA, it helps, but it is still not perfect.
5 Huge numbers of people still say they regret the
6 decision they came to relying upon notice.

7 Other research we have done and colleagues
8 have done across the nation concerns psychological
9 and economic factors that help explain why consumers
10 do what they do.

11 One problem, one basic problem we all know is
12 that notices are written for attorneys. They are too
13 long. Even when people try to read them, they are
14 impenetrable. There are information asymmetry
15 issues. Individuals don't understand the terms of
16 the bargain, especially when saying their product or
17 service is free.

18 That leads them to think there are literally
19 no costs, when in fact the cost of privacy can be
20 quite severe.

21 What we concluded in the paper is these
22 barriers taken together and the public polling
23 research that Joe has done and the user interaction
24 research we have done at Berkeley shows individuals
25 need a helping hand, they want privacy, they say they

1 want it, they try to get it, indicating a need for a
2 helping hand.

3 All these different factors frustrate their
4 ability. We can only pay attention to so many things
5 a day. We have kids, jobs, other responsibilities.
6 We are too busy to pay attention to all these issues.

7 I'm going to move very quickly at this point.
8 If we don't take care of this problem, what's going
9 to happen is people are going to get notices and they
10 are going to consent to spyware and put the entire
11 network at risk.

12 We are beginning to see that with the Sony
13 Rootkit and with other issues.

14 MR. TUROW: Things can get worse also if you
15 look at some of these issues and bring them into the
16 mobile world, the off-line world.

17 We make the mistake of thinking that the
18 online world and the off-line world are separate. If
19 you look at what stores are doing today, if you look
20 what is happening in the mobile environment, very
21 much they are interconnected, even with stuff like
22 IPTV.

23 The notion is the digital use of information
24 is growing and these issues go far beyond the
25 traditional Internet.

1 MR. HOOFNAGLE: I have skipped a slide in
2 there. In our report we argue that individuals when
3 they see the term "privacy policy," they think it
4 means opt in.

5 It is about time the Federal Trade Commission
6 bring the law in line with that expectation. This is
7 not the result of some intentional action. It is not
8 that businesses have tried to deceive the public.

9 What has happened is that the very structure
10 of privacy protection in the United States has led
11 people to believe things that are not true. It is
12 detrimental to privacy and ultimately to public
13 policy and the Federal Trade Commission has to
14 address these issues.

15 If I may say finally in 1996, Beth Givens
16 from the Privacy Rights Clearinghouse recommended the
17 FTC set benchmarks for the formation of whatever
18 policy approach the industry takes. We need
19 benchmarks today and we can't do without benchmarks.

20 Thank you.

21 MS. HARRINGTON: Thank you.

22 (Applause.)

23 MS. HARRINGTON: I'm going to ask Trevor and
24 Peter or Peter and Trevor in that order for about
25 three minutes of thoughts on what you have heard so

1 far, and then we will have a more robust discussion.

2 MR. SWIRE: Thanks. I have reactions.

3 I will in three minutes try to do three
4 things. How facts and technology are likely to
5 change in the last 10 years, a comment on market
6 failures and a comment on the new Congress and how
7 that changes things.

8 On facts, I think one of the big changes in
9 the next 10 years is that sensor devices become
10 roughly free, the way computing powers become free.
11 Nobody used to have a camera. Now we all do. The
12 camera is also a tracking device. We are going to
13 have free sensors and the database from these
14 networks of the sensors. That will create a lot of
15 policy challenges.

16 On market failures, I think Solveig Singleton
17 -- I agree a lot with how the markets can cure many
18 market failures. I wrote an article on eBay called
19 "Trust Trap," and highlighted that.

20 I think a big job for the FTC to see exactly
21 when it happens and when it doesn't happen. The FTC
22 ought to be one of the expert places at figuring out
23 more or less automatically and where enforcement
24 standards and other things have to happen.

25 The third thing which clearly wasn't part of

1 the agenda today but it is too interesting to skip is
2 what changes with the new Congress that we seem to
3 have as of today. A couple points on that.

4 One of the big questions you think about the
5 next decade is do you think the Democrats will have
6 the House for at least 10 or 12 years which is what
7 happened the last time the House turned over, or is
8 it just two years and a temporary thing.

9 A lot of people in Washington will try to
10 figure that out. I think there are some reasons to
11 think it might be a fairly long lasting change.

12 If that does, it changes the boundaries of
13 how policy gets done on a lot of these issues. If we
14 look at Chairman Tim Murrows, he had a nonlegislative
15 agenda, let's do enforcement, let's do rules, but we
16 are not going to do legislation.

17 The current Commission has rarely been pushed
18 in the privacy and security area by Congress to do
19 specific things.

20 But I think if you imagine John Dingel
21 chairing the House Energy and Commerce Committee and
22 the history of some of his inclinations, we can see
23 three sorts of changes that might affect how the
24 policy at the FTC gets done with relation to these
25 issues.

1 The first is oversight. Everyone expects
2 much more active oversight from Congress in the next
3 period, people being hauled in front of the Congress,
4 being asked tough questions, being given subpoenas
5 and not being able to hide. That's going to change
6 and it will force certain answers out into the open.

7 A second thing that will be a broader set of
8 consumer issues that can get on the agenda. In the
9 last several years, the federal action has happened
10 only after the states acted. Data breach started the
11 states, Spam started the states, spyware legislation
12 started at the states. We might see things start in
13 Congress.

14 If they start in Congress, that will affect
15 how the FTC is going to be acting because there will
16 be some active people just a few blocks down the road
17 demanding change.

18 The third thing is when it comes to privacy
19 and security, there has been a real hesitancy over
20 the last five or six years to imagine legislative
21 solutions except in very targeted areas. There will
22 be at least imaginings of new initiatives.

23 So as the FTC imagines its own next ten
24 years, it might be in a policy environment where
25 there will be a much more sustained set of

1 conversations with Capitol Hill, and I think a
2 strategy for the FTC should take that into account.

3 MS. HARRINGTON: Thank you, Peter, right up
4 to the the minute thoughts about what the future may
5 hold.

6 Trevor.

7 MR. HUGHES: Thank you. My name is Trevor
8 Hughes, and I am the executive director of the IAPP.
9 We are a professional association that represents
10 people who work in the field of privacy.

11 And 10 years ago, when the FTC first started
12 looking at privacy issues online, we didn't exist.
13 And the profession of privacy has really emerged over
14 the next decade. And I think we will continue to
15 grow and begin to stand shoulder to shoulder with
16 some of the great professions.

17 We now boast 3000 members in 23 countries. I
18 think our growth is a reflection of many of the
19 factors that we have been talking about over the last
20 three days.

21 Let me reference a couple laws that I am sure
22 we have all heard too many times.

23 Moore's law tells us every 18 months to two
24 years the number of transistors on a silicon chip
25 will double. That has proven to be true since the

1 co-founder of Intel famously created this law, that
2 our processing power is increasing, almost at an
3 exponential rate.

4 At the same time, Kreter's law tells us
5 storage density increases at the same rate as Moore's
6 law. In any given amount of storage we can store
7 twice as much in that same amount of space every 18
8 months. There is also research that shows how
9 precipitously the cost of storage has dropped.

10 Peter mentioned the ubiquity of IP addresses
11 and data sensors, the ability to gather data. It is
12 very clear that data is moving faster to more places
13 and coming back from more places than ever before and
14 it is being stored in quantities that were
15 unimaginable years ago.

16 I think now how much storage I just have on a
17 flash drive in my pocket, and that is many thousands
18 times more the amount of memory on my first desktop
19 computer.

20 When I think of those two laws and I think of
21 the growth of the privacy profession and some of the
22 challenges that we have discussed, I think that I
23 would actually reflect on the issue of the first half
24 of this session, and that is trust.

25 Jules Politneski, who is on our board and is

1 the chief privacy officer at AOL, used to be the
2 commissioner of consumer affairs in New York City.
3 He describes the problem of indicators of trust, that
4 in New York City, if you were to go to 8th Avenue and
5 buy something from an electronics shop that had a
6 going out of business sign on the window for the last
7 six months and get a dusty box and a salesman who
8 demanded that you pay in cash and didn't give you a
9 receipt, you had many, many, many indicators of
10 distrust in that transaction, and your expectations
11 of that transaction are probably far less.

12 You could take that risk, certainly, but
13 certainly it would be much less of a risk to go down
14 the road to a Best Buy or Circuit City where you get
15 a receipt, a warranty, you pay with a credit card.

16 Jules said and I think he is absolutely right
17 that in emerging media our indicators of trust can't
18 catch up. We see new channels develop on an
19 increasingly fast pace, as Moore's law and Kreter's
20 law give us new processing and powers.

21 I think one of the great things we need to
22 face in the next Tech-ade is the need for these
23 indicators of trust. Privacy professionals have a
24 big part in that job, and I think they are the
25 guardians of trust for much of the information

1 economy particularly from a corporate perspective.
2 But we have seen agencies take this up by naming
3 chief privacy officers, DOJ, U.S. Postal Service,
4 many others.

5 Metcalf's law, as many of you may know, is a
6 law about networks, and it says that the value of a
7 network increases by a factor of the number of nodes
8 in a network.

9 The proof of that law is that the first
10 person to buy a fax machine was kind of a sucker.
11 They got it home, opened up the box and were unable
12 to do anything with it. It was only when the second
13 person bought a fax machine that that first fax
14 machine had any value whatsoever.

15 Metcalf's law is right. I would add a layer
16 to it. The value of the network is not created
17 necessarily by the number of factors in the equation,
18 but the value of the network is created by the flow
19 of the data through the nodes in that network.

20 I would like to suggest to you that privacy
21 professionals, that we in this room, that the FTC
22 need to be the guardians of that value exchange and
23 the information economy.

24 Thank you.

25 MS. HARRINGTON: Thank you, Trevor.

1 (Applause.)

2 MS. HARRINGTON: We are going to have time
3 for questions from those of who you are here. Let me
4 begin with one.

5 Helen, I think that you make the point very
6 well that privacy, that is how people feel about
7 their information. Whether they are willing to turn
8 it over or not is a highly nuanced matter. You would
9 say it is a normative matter.

10 I think at the FTC over the last decade we
11 have come to agree with that, and in fact it is so
12 nuanced that it is very difficult to do hard economic
13 analysis and cost-benefit analyses on that front end.

14 The one thing that I think that we have
15 focused on and that there is a broad agreement on is
16 that it's extremely important once information has
17 been collected to safeguard it and to ensure that it
18 is handled in a secure fashion.

19 Going to our trusted source group over here,
20 how important in your view is that promise of
21 information security to being a trusted source? I
22 guess I would invite the whole panel to chime in on
23 that.

24 We may have a polling question on this in a
25 moment, too, so those of you in the audience pay

1 attention.

2 On being a trusted source, where does
3 information security, data security rank in your
4 thinking?

5 MR. BRENDLER: It ranks -- in the study that
6 I mentioned that we did about indicators, it ranks
7 very highly. Privacy and security ranked very highly
8 as indicators.

9 MS. HARRINGTON: Are you equating privacy and
10 security?

11 MR. BRENDLER: No. I'm sort of joining them
12 together. That's the way they were joined together
13 in the results of the research.

14 On the heels of the presentation we just
15 heard, we also have a lot of research that says
16 consumers say they want privacy policies but they
17 don't really look at them, or when they do, as Chris
18 and Joe mentioned, they are almost impossible to
19 understand. They are written for attorneys.

20 Consumers don't know what to do with them.
21 But they want them.

22 MR. SHIPMAN: That is the exact issue.
23 Privacy is in fact much different than security at,
24 least as how we talk about it within eBay. Privacy
25 is the use of information, how it might be shared,

1 how it is collected, how it is processed.

2 Security is who has access to that
3 information and how are we protecting it physically,
4 logically.

5 So naturally, while I think the two must work
6 together and are both equally important, they are
7 distinct. You have to have physical and logical
8 controls that equal your problems, and you have to
9 use information equal to your promise, and that
10 promise is the privacy policy.

11 MS. HARRINGTON: That's a very nice
12 distinction and an opportunity for a polling
13 question.

14 So as you go online to do whatever it is that
15 you do, do you care more about privacy? That's
16 number 1. Or the security of your information?
17 That's number 2. Let's vote.

18 While we are voting, we are going to jump
19 right down the line.

20 MS. SINGLETON: I think there are some very
21 different types of data handling here, different
22 types of data problems.

23 One is is someone going to get ahold of your
24 credit card number or Social Security number, and a
25 second question is Spam.

1 Another question entirely is marketing data,
2 which might be sensitive in the health context which
3 is where the opt-in standard grew out of but not at
4 all sensitive if someone is buying pet food.

5 I can see Chris is looking puzzled. I can
6 explain that if you want. There are safety issues as
7 well, like is my child trying to talk to someone who
8 is trying to get their address and their real age.
9 There is really context important, context dependent
10 changes here that I think are very important.

11 MS. HARRINGTON: Thank you. It looks like we
12 have a lot of security hawks today.

13 Turning back to our privacy group from our
14 trusted source group, what do you think about this
15 distinction that is drawn between privacy and
16 security and the relative importance, and
17 particularly, Peter, let me throw that question to
18 you as someone who has some views about what we ought
19 to be doing.

20 MR. SWIRE: Well, one way that I draw the
21 distinction is security keeps out unauthorized users.
22 It stops the hackers from getting in and the wrong
23 employee from looking at it.

24 That's a baseline that pretty much everybody
25 thinks should happen. You say there's a

1 cost-benefit. You don't put 6000 locks on your
2 doors, but you put on enough locks to make sure to
3 keep the regular threats out.

4 One reason it is easy to go on B for security
5 is that without having some locks on the door, you
6 can't pretend the house is safe.

7 Privacy tends to be more a decision about
8 which things we should share, medical or not. That
9 tends to be a much longer discussion. And the whole
10 privacy literature has to do with different chapters
11 of that discussion.

12 MS. HARRINGTON: And a highly nuanced one. I
13 think in part, Helen, that is a major point you are
14 making.

15 MS. NISSENBAUM: What I'm trying to do in
16 creating a theory about it is not to say it is so
17 nuanced, let's kind of throw up our hands and say it
18 is too complicated, but that it is nuanced in
19 particular ways and that we can actually get a handle
20 on it and by having a structured way of thinking
21 about it, we might actually be able to come to better
22 decisions, and, again, responding to what Peter has
23 just said, that we might have a better sense of what
24 sort of flows of information are acceptable to people
25 and what are not.

1 Once we have decided that, then the security
2 question comes in, which is how to then protect it in
3 ways that you have set out in your policies.

4 MS. HARRINGTON: How do you decide that? Do
5 you apply some sort of cost-benefit analysis at all?
6 What are the objective standards for making those
7 decisions?

8 MS. NISSENBAUM: Those meaning --

9 MS. HARRINGTON: The decisions about
10 acceptable levels of information flow.

11 I'm having a hard time as a lawyer interested
12 in economic analysis as well as fitting this into --

13 MS. NISSENBAUM: It is a not a cost-benefit
14 analysis. I'm sorry because I tried to squish in a
15 very brief period and maybe I tried to cover too
16 much.

17 When you look at it in the particular
18 contexts, the one that we know quite a lot about, for
19 example, is health care. We have some good ideas
20 about what the norms should be in a health care
21 context.

22 So that has to do with protecting -- there
23 are multiple questions to ask when you try to settle
24 on what those norms should be. But they can have to
25 do with protecting people against harm.

1 But they can also have to do with the actual
2 success of the health enterprise itself because if
3 people don't trust, then they are not going to be
4 willing to share, and that will be bad for health in
5 general and health in particular in individual cases.

6 MS. HARRINGTON: In the time we have
7 remaining, if there are questions from out here, make
8 yourself known, and we will work you into the
9 discussion.

10 All right. Trevor, I'm going to turn back to
11 you on this issue of developing some sort of
12 framework for setting norms for privacy flow and data
13 flow, picking up on what Helen was just discussing.

14 MR. HUGHES: I think the contextual concept
15 of privacy is actually right. I think all of us just
16 inherently understand that privacy is contextual.

17 Peter and I were trying to figure out who it
18 was that said at a CFP conference that Americans
19 value their privacy but the value is 50 cents off a
20 cheeseburger.

21 I think that is right in certain contexts.
22 But in other contexts, you may not be willing to give
23 over your zip code because it seems odd at that point
24 in time.

25 MS. NISSENBAUM: Or even your name.

1 MR. HUGHES: Indeed, or even your name.

2 There is even more layers than that.

3 There is certainly the generational layers
4 that we heard discussed earlier, that different
5 generations have different approaches to privacy.

6 Allen Weston's research has given us another
7 set of slices on the population, telling us that
8 there is really a spectrum of perspectives from
9 privacy fundamentalists to privacy concerns to the
10 big mass in the middle, being privacy pragmatists.

11 It is an incredibly difficult matrix to wrap
12 any type of standards around, and I think that's one
13 of the reasons that it has been very challenging.

14 And I apologize, this is self serving. I
15 think it does speak to the need for a profession in
16 the middle of this, that this is a professional job.

17 It is not just sort of a technocratic
18 response. It is not a compliance response anymore.
19 Privacy professionals are much more than that and
20 they are doing very, very sophisticated things.

21 MS. HARRINGTON: Joe.

22 MR. TUROW: Can I add one more complexity to
23 the problem of context, which is real basic. You may
24 think you are giving up bits of information for one
25 reason and what ends up happening is due to the

1 combination of statistical algorithms, the buying of
2 third-party data, you end up giving up information
3 for purposes you have no idea about, and it happens
4 every day.

5 So, for example, if anyone goes to a major
6 supermarket, you gave your data when you buy using a
7 frequent shopper card, and virtually -- 80 percent of
8 Americans use frequent shopper cards and for obvious
9 reasons; you get discounts.

10 If the supermarket has a relationship with
11 Catalina Marketing, for about 102 days they are
12 storing your information, not your name, but your
13 information as a number, like a cookie as to
14 everything you have bought.

15 The next time you come in, through complex
16 algorithms they decide how much money to take off for
17 any particular product not related to what you are
18 buying now but taking into consideration everything
19 you have bought over the past couple months.

20 How do you know that the cat food you bought
21 or the dog food you bought on a particular day three
22 weeks ago will affect whether you get cents off on a
23 totally different product or maybe the person in back
24 of you will get cents off on the dog food but you
25 won't because you are an established buyer.

1 The kind of calculations that have to go into
2 a person's mind-set in everyday shopping behavior
3 become quite complex. And the chagrin that a person
4 might find in the small situation of a person behind
5 that -- and I have had situations like this, how come
6 you have a discount coupon for Pepsi and I don't, or
7 people who go into the test supermarkets where they
8 go through the aisles with shopping buddies in which
9 they give them different prices as they are walking
10 through the aisles.

11 So the algorithms that go into figuring out
12 what it means to give data are almost impossible to
13 calculate.

14 MS. HARRINGTON: All right. We have only
15 about three minutes left.

16 I have one last question that I would like
17 each of you in the remaining three minutes to
18 address, and that is in terms of information and data
19 privacy and security, what 10 years from now do you
20 think we will be dealing with as the greatest concern
21 or issue as we look ahead 10 years? Or five years.

22 Let's look out beyond now. What will be the
23 greatest concern?

24 Trevor, we will start with you.

25 MR. HUGHES: I think that the rapid emergence

1 of new communications and data flow channels that are
2 inherently open, such as e-mail historically, that as
3 those channels emerge, we can't catch up with
4 standards and friction in those channels quick enough
5 to prevent the fraud and abuse that we see in
6 wide-open channels that lack accountability.

7 I think the fact is that we will see more
8 channels emerge and that they are going to be
9 increasingly digital based and open and lack the
10 accountability necessary out of the gates for us to
11 have controls of them.

12 MS. HARRINGTON: Peter.

13 MR. SWIRE: Something not mentioned today,
14 not the FTC's job, but these private sector amazing
15 collections of data are all available to the
16 government presumptively going forward. They are no
17 more than a subpoena away.

18 As a democracy, we have to figure out. We
19 don't expect them to be looking at us and how are we
20 going to work that out.

21 MR. TUROW: I agree with both of those. I
22 would also like to add the increased nichification of
23 society and the electronic overlay of that. You may
24 get a different 60 Minutes from what I get with
25 different commercials because you're valued more by

1 certain companies than I am or because they tell
2 different stories than I am interested in. What does
3 that do to a society when people are constructed in
4 that way?

5 MR. HOOFNAGLE: We are going to have
6 ubiquitous identification and tracking through radio
7 frequency ID.

8 The New York Times recently reported on
9 researchers who got credit cards that are RFID
10 enabled, and these credit cards were reputed to be
11 secure but they were able to waive an RFID reader and
12 identify whose card it was.

13 We are moving into a world where there is
14 ubiquitous but silent identification and tagging, and
15 we will have to ask ourselves how the notice and
16 choice regime is going to work.

17 MS. HARRINGTON: Helen.

18 MS. NISSENBAUM: I think I'm now echoing some
19 comments that were made earlier throughout this
20 event.

21 Contexts that are important to me in my work,
22 we can think of them as part of the culture that have
23 evolved over hundreds and sometimes thousands of
24 years. If you think about the Hippocratic oath, you
25 know that has been part of the health care context

1 for centuries.

2 But the technology that we have just heard
3 about is moving at a pace that is changing the
4 quality of life in ways that we haven't had time to
5 register how this will alter the balance of interests
6 and the balance of power.

7 I'm afraid that we are going to 10 years from
8 hence or even five years be in situations where we
9 haven't had the opportunity to really evaluate and
10 resist some of these changes because they have
11 disturbed these cultural contexts in ways that have
12 been deleterious to us.

13 MS. HARRINGTON: Well, thank you. And thank
14 you all, all of you, for a very thoughtful
15 participation.

16 We are going to have a 15-minute break now.
17 We will resume right at 4:00 for the consumers'
18 perspective.

19 (Applause.)

20 (Break and Technology Pavilion.)

21 MS. SCHWARTZ: I would like to begin this
22 panel.

23 This is not high tech. We are going to have
24 a conversation with a panel of experts who have been
25 following the hearings, either by the Webcasting, the

1 blog or in person.

2 We are asking them to carry out what is
3 probably an impossible task, which is within a very
4 short period of time -- we have roughly an hour -- to
5 have them tell us what they heard and what they take
6 away from these hearings from a consumer perspective.

7 To begin, so as not to waste any time, I'm
8 going to introduce Jo Reed, who is with AARP, an
9 organization we are all familiar with.

10 She is the national coordinator for livable
11 communities and consumer issues in the AARP's federal
12 affairs department. She has been with AARP for over
13 20 years and working as a lobbyist on low-income
14 consumer protection and social services issues.

15 We have heard during the hearing something
16 about older Americans and to some extent concern that
17 they are not participating in the technological
18 developments.

19 I will ask you to tell us what you have
20 learned from these hearings and how it affects your
21 group.

22 MS. REED: First, I want to say how
23 appreciative we are to the FTC for holding these
24 hearings.

25 I have not been able to personally

1 participate in observing the hearings myself because
2 of so much going on, but we have people all over AARP
3 plugged in watching the Webcast and feeding in their
4 observations. And they have found it so, so
5 interesting.

6 It is said often and perceived that older
7 people are not taking full advantage of advancing
8 technology. In the upper reaches of the older
9 population, I'm sure that is probably more true than
10 not.

11 We actually find in the 65-plus population,
12 we have some of the fastest growing participants in
13 computer use in the entire population. Of course,
14 they are not out there mostly checking out all the
15 shows and purchasing -- shopping for different
16 products. They are using it for e-mail, keeping in
17 touch with their grandchildren and others.

18 In the process, they are becoming more
19 familiar with the technology. I think it is
20 something that has caused us to look very closely at
21 what is happening in the world of technology and how
22 they may be affected by this.

23 Many, many interesting points have been made
24 by the speakers during these hearings. One I would
25 focus in on is privacy and security.

1 Again, even though older persons are mostly
2 using the computer, the Internet for e-mail,
3 increasingly midlife and older people are going to be
4 using it for all kinds of things. So security is
5 going to be an issue for our members who start at age
6 50 and up.

7 One thing I know has been talked about, in
8 particular by Fred Cate from the Center for Applied
9 Cybersecurity Research is the erosion of privacy in
10 the public sector which may lead to an increasing
11 risk of exposure of private information in the
12 private sector.

13 That's something in particular that we have
14 been looking at and are very concerned about. I
15 would point specifically at the Real ID Act which was
16 passed in 2005.

17 It was part of a Defense appropriations bill
18 and aimed at national security and dealing with
19 immigration issues, but it creates this network of
20 databases that all the states participate in, an
21 interstate network of personal files to create a
22 federally acceptable driver's license which will
23 eventually be required for use for accessing any kind
24 of federal benefit, like Medicare or Social Security.

25 This database is going to be connecting

1 federal sources of information with state sources of
2 information. And a breach in that kind of
3 information could lead to breaches in all kinds of
4 private sector data as well.

5 So we at AARP, among other organizations and
6 states, are looking closely at action to implement
7 that law in the year ahead, regulations that will be
8 written and looking at ways to see how we can protect
9 that data and encourage perhaps even some changes to
10 address that problem.

11 So I'll stop there.

12 MS. SCHWARTZ: Thank you, Jo.

13 Now I turn to Susan Grant, who has been with
14 us 10 years ago when we had our 1995 high-tech global
15 hearings.

16 MS. GRANT: I was probably warning you about
17 Spam then.

18 MS. SCHWARTZ: She is vice president for
19 public policy at the National Consumers League. She
20 works in the area of electronic commerce and
21 financial services and is the director of the NCL's
22 National Fraud Information Center and Internet Fraud
23 Watch Group.

24 MS. GRANT: I have to say I found the
25 presentations and discussions in the last three days

1 really fascinating. I decided to focus on one
2 particular word that has come up over and over again,
3 and that's the word "control."

4 We have heard that it is important for
5 consumers to have control and that tech can actually
6 give them more control in some cases, but when we saw
7 the hilarious video about the nagging computer, it
8 reminded me that sometimes technology controls us and
9 not the other way around.

10 That's not necessarily a bad thing. For
11 instance, I think that we are certainly in favor of
12 secure by design, having security be the default mode
13 when we are using different kinds of technology.

14 If we do have to take control as consumers,
15 how do we do that? I think it is really difficult.

16 Most of us aren't technicians or lawyers. We
17 don't want to have to figure out how to navigate
18 complex technology or complex legal agreements about
19 how to use it.

20 We can't control what we don't see. For
21 instance, how our information is collected,
22 aggregated and used in ways, for instance, to profile
23 us and perhaps offer us a different price than
24 someone else would get for something that might not
25 always be to our benefit.

1 And we can't control the security of our
2 information when it's not in our own hands, when it
3 is actually in the hands of other people or
4 organizations.

5 We also lack meaningful control when the
6 terms of using technology are one-sided. And I think
7 we see that with end user license agreements, as was
8 previously alluded to, in privacy notices. We don't
9 understand them, but even if we did, it is really a
10 take it or leave it situation, and we usually want to
11 buy or do whatever it is that we are trying to use
12 the technology for.

13 One thing that gives consumers real control
14 is their legal rights, and as we have heard, many of
15 the new things that consumers are doing with new
16 technology are not covered by existing laws or there
17 are disparate laws depending on, for instance, which
18 form of a new payment mechanism they are using to pay
19 for something.

20 I was interested to hear some business
21 representatives say that they wanted more clarity,
22 more certainty about whether what they were doing was
23 within legal bounds.

24 I think that both consumers and businesses
25 are somewhat hindered in the full use of these new

1 technologies by the lack of a legal framework for
2 things like privacy and security.

3 So I think it is time for the Federal Trade
4 Commission to take another look at that and support
5 some sort of framework that these new business models
6 could actually be built upon.

7 I also think that there is room for more
8 guidelines and best practices, and those can be
9 developed by business organizations, by government,
10 by consumer organizations, by some of us joining
11 together to do them. And I think that would be
12 useful.

13 I'm going to stop there.

14 MS. SCHWARTZ: Thank you very much. We
15 should have time at the end for additional dialogue.

16 Let me turn next to Dawn Rivers Baker. She
17 is the president and CEO of Entrepreneur Publishing
18 and editor and publisher of The MicroEnterprise
19 Journal, which are businesses that employ fewer than
20 five people.

21 She will tell us more about her work and the
22 people that she is interested in our learning about.
23 They have been below our radar screen, and it is time
24 they saw the light of day. So Dawn.

25 MS. RIVERS BAKER: Thank you.

1 Let me give you some background about
2 microbusinesses.

3 Microbusinesses, as was mentioned, are firms
4 with fewer than five employees. Most of them are
5 nonemployer microbusinesses, they have no employees
6 at all. They constitute 91 percent of the businesses
7 in the country, according to the most recent data
8 that has become available from the Census Bureau, and
9 three out of four U.S. firms are nonemployers, they
10 have no employees.

11 This group is seriously impacted by
12 everything that comes out of a set of hearings like
13 these. I just this week got some information from
14 Sinal Ghandi of Jupiter Research, who is working on
15 publishing research on the online activities of
16 microbusinesses.

17 And one of the interesting nuggets of
18 information that she gave me before I left my office
19 to come here was that microbusinesses are uber users
20 of the Internet. They are more active online than
21 normal consumers, they are more active online than
22 the owners of larger small businesses, they are even
23 more active online than larger businesses.

24 They buy online, they sell online. They
25 participant in social networks. They participant in

1 listservs, they participant on message boards, they
2 blog, they Podcast, they video blog. They are all
3 over the place.

4 At the same time, when the FTC brings
5 together industry representatives to address issues
6 like e-mail deliverability, like privacy, like
7 security, microbusinesses are not represented at that
8 table, and that's unfortunate because they operate in
9 ways that are unfamiliar to both the government and
10 to larger corporations.

11 And because of that, the solutions that are
12 often proposed when the FTC turns to the private
13 sector to solve a problem are solutions that either
14 do not take into account the operational realities of
15 a business that doesn't have an IT staff or doesn't
16 have any staff at all except one person, that the
17 results of those limited resources, or the solution
18 that they come up with winds up being priced out of
19 range of microbusinesses.

20 One of my favorite examples is around
21 2000-2001, when privacy was on everybody's lips and
22 the privacy seal programs were started by trusting in
23 the BBB online and they were great, everybody said
24 they were great, but microbusinesses could not use
25 them because they cost too much. We had no way to

1 authenticate ourselves as trustworthy businesses.

2 The same thing is happening right now with
3 the e-mail deliverability issue because microbusiness
4 owners by and large don't use dedicated e-mail
5 servers. We use shared hosting plans. So that the
6 e-mail authentication technologies that have been
7 proposed, with the exception of SPF records, those
8 aren't available.

9 So if we don't want to go with a third-party
10 e-mail service provider, if we want to do our own
11 in-house list work, we cannot get our e-mail
12 authenticated.

13 And then we wind up getting our e-mail
14 blocked, because one of the interesting things that
15 happens online is when you are a small unbranded
16 business, you can run a squeaky clean outfit and it
17 is still hard for people to trust you. Whereas, if
18 you are Amazon, you can have all kinds of securities
19 breaches and problems but you are Amazon, so it is
20 okay.

21 That's an issue. I also think that right now
22 there's a possibility that a marketplace that was as
23 close to an even playing field as you are going to
24 get in an imperfect world, and it wasn't really an
25 even playing field to begin with but it was close, is

1 about to change profoundly.

2 I'm talking about net neutrality, which is an
3 issue that could have a really, really profound
4 impact on microbusinesses.

5 If we are talking about a future in which the
6 demand for multimedia content is going to be ever
7 increasing, well, the content is not beyond the
8 microreach. We are already videocasting, already
9 podcasting.

10 But if the fast lane is going to be reserved
11 for the people who can pay for it and the consumers
12 are going to be trained to not have the patience to
13 wait for the slow stuff to load, then we are going to
14 change from whoever has the best content will win to
15 whoever can pay for the best delivery will win.

16 Ultimately it is important for the federal
17 government in general and for this agency in
18 particular, I think, to have more of an awareness of
19 the microbusiness segment of the economy,
20 particularly online, because it was the Internet that
21 I think really resulted in the explosion in the
22 number of microbusinesses over the last 10 years.

23 They are like plankton. They are very small
24 and insignificant, but collectively they are a
25 really, really important part of the economic

1 ecosystem.

2 They need a place at the table. That is very
3 important because most of the people in this town
4 have no clue how these businesses operate.

5 MS. SCHWARTZ: Thank you, Dawn. I have a
6 feeling you are no longer below the radar screen.

7 I don't know how this happened. I just
8 realized that we have all the women sitting on one
9 side and all the men on the other. This was totally
10 random.

11 Let me turn next to Beau Brendler, who we
12 just gave him a little break between his last panel
13 and now this panel. As you know, he is director of
14 Consumer Reports WebWatch.

15 And Beau, you have been attending all of the
16 hearings, you said, and participated in a number of
17 panels perhaps and been thinking about how what you
18 have learned here is going to affect how you do your
19 business going forward. I will give you an
20 opportunity to speak.

21 MR. BRENDLER: Thank you. Thank you again to
22 the FTC for being in this role at the last panel of
23 these hearings.

24 To jump right in, I will be a little more
25 notes intensive here than I usually am in panels

1 because I have been taking a lot of notes.

2 Like others, I think I would have to say that
3 this set of hearings has been about, with a few
4 exceptions, privacy and security, two different
5 concepts, as we talked about, and in certain
6 circumstances not necessarily completely separate, I
7 think, but that's certainly something that can be
8 talked about. I think a key word is the term
9 consent.

10 I think a major part of what affected me in
11 thinking about this was a bit of a dialogue yesterday
12 between Brian Wieser of MagnaGlobal and Jennifer
13 Barrett of Axcion.

14 Brian said that a majority of Americans are
15 concerned about their privacy and want to control it,
16 advertisers are worried about going over some
17 undefined line and creating backlash.

18 Later on in the discussion Jennifer said
19 consumers want choice, but they want choice they can
20 understand.

21 I want to talk about that just a bit. In
22 October 2005 Watch published a national survey again,
23 and we found that 30 percent of Americans have
24 changed their Internet behavior, defined as buying
25 less stuff, using Internet less, even ceasing its use

1 because they were concerned about its negatives, its
2 dark side, other factors.

3 I'm not going to go as far as to say that's a
4 backlash. But we need to remind ourselves that
5 consumers -- I don't mean to take away anything from
6 them here -- sometimes don't understand this online
7 world as we do.

8 I want to cite a Privacy International study
9 that was released Thursday of last week ranking 36
10 countries in terms of privacy. This also includes
11 surveillance. In terms of statutory protection, the
12 U.S. is the worst ranking country in the democratic
13 world in terms of the health of national privacy
14 protection.

15 Last week U.S. PIRG and the Center for
16 Digital Democracy wrote a legal finding to the FTC.
17 I have a copy of it here. I would like to enter it
18 into the proceedings. It states that it is matter of
19 time before intensive behavioral tracking data gets
20 mixed with other personally identifiable information.

21 There was some discussion of that yesterday.
22 You can read this. I won't go into it here because
23 it is pretty long. It is about 60 pages long. It is
24 about privacy.

25 So what to do or what to sort of consider.

1 I'm not sure business best practices and guidelines
2 appear to me as consumer concerns here. Every site
3 has a privacy policy. I'm not sure how useful they
4 are to people at this point.

5 Privacy policies are full of legalese spread
6 across several different places on the site. Someone
7 yesterday cited the NAI guidelines specifically
8 pertaining to advertising and privacy.

9 I have a fair amount of expertise in this
10 arena, and I never really heard of the NAI. I don't
11 think they have a lot of resonance with consumers.
12 Last night looking at that as a journalist, if I were
13 to look at them, I would characterize them as
14 something of an industry group, perhaps as an
15 industry lobby group, and I don't necessarily think
16 they would pass the sniff test with consumers.

17 I would invite them to get in touch with
18 consumer organizations and bring them into the mix
19 when they are creating guidelines for their own
20 industry.

21 Just to mention briefly at the end of this
22 bit about privacy, we did a project for Consumer
23 Reports magazine about dating sites, and I want to
24 sum up some of the things I said by something that is
25 buried very deep in the privacy policy of Americans

1 Singles. "You should not expect and we do not
2 guarantee that your private information will always
3 remain private."

4 Is that good or is that bad? If I read that,
5 are they being honest in disclosing or is that good?
6 It is buried in the middle of the privacy policy.

7 So what to do? A few people over the course
8 of this have mentioned fines. Maybe there should be
9 fines in situations -- this crosses over into
10 security, but when there is a major breach of data,
11 maybe there should be some more severe recriminations
12 than there are.

13 We have some concerns that guidelines in the
14 arena of privacy and security create a low bar for
15 minimum compliance rather than encouraging them to do
16 something really creative and interesting.

17 We heard that 30 states have breach laws.
18 There is a notification issue. I'm not an attorney,
19 but if 30 states have breach laws, you saw what
20 happened with the credit card industry. A lot of
21 them relocated to Delaware and South Dakota because
22 of the laws there.

23 Many consumers still believe the number one
24 privacy risk is someone intercepting your credit card
25 data in the middle of a transaction. Probably not

1 something anybody here worries about.

2 Many don't realize the greatest risk is when
3 the data gets warehoused by an irresponsible third
4 party. So let's think about a campaign to compel
5 businesses to only contract with data storage
6 companies that have a best practices pledge in place.

7 I will try to speed up here.

8 A number 2 concern, privacy and security was
9 the major theme. The next one is consumer education
10 I think to some degree is failing. Consumers are
11 besieged by choices. 21 percent of consumers don't
12 even have security software installed in their home
13 PCs.

14 At the same time this is happening, fraud is
15 increasing, I think, although I did hear some numbers
16 today I believe from a gentleman from Experian who
17 said that's not necessarily the case, or at least
18 with identity theft. I don't know about those
19 numbers from my perspective.

20 Identity theft is increasing. The burden of
21 correction falls on the consumer.

22 I will skip forward a little bit and say
23 something about search emerged within the last three
24 days as sort of a critical point of beginning for
25 everyone, whether they are searching for information

1 on the Web or searching the Web.

2 I think consumers have a difficult time
3 distinguishing among paid placement and organic
4 search results.

5 In 2002, we did a study that said 60 percent
6 of the population doesn't even know that search
7 engines take money to order results. The number
8 improved slightly to 57 percent of the American
9 population don't understand the business model of
10 search engines. They are more like the Yellow Pages
11 than objective oracles of information, I think.

12 And I mentioned early in the panel that I
13 would get back to CourtRecords.org, a site I
14 mentioned earlier that's fraudulent, how does it
15 relate to this. CourtRecords.org is number one or
16 two in page searches on Google if you type in the
17 words "background check."

18 And in Google's paid listing you will see a
19 document that says "consumer's guide to background
20 check sites." You click on that and you get a page,
21 I don't know who built or generated it, but one of
22 the sites named is CourtRecords.org. It is a
23 fraudulent site.

24 So consumer education I think to some extent
25 is being grabbed on to by people who probably should

1 not be educating the consumers in the way that they
2 are.

3 Very quickly, things that were not talked
4 about but were mentioned over the course of the past
5 three days, SCO and SCM, searching and optimization.
6 Booming, terrific, but a large amount of unregulated
7 and unmonitored business will lead to a situation
8 where the best-optimized sites and those better at
9 playing the system get higher placement and higher
10 ranking.

11 Finally, it was just alluded to but not much
12 has been discussed about trustmarks. I bring them up
13 here to say basically I don't think they have had a
14 lot of resonance in the trustmark realm in order to
15 address some of these issues.

16 And just quickly, out of a sense of irony, as
17 I was walking over here this morning I looked at the
18 business section of USA Today, and the lead story
19 says "If it is really you, what color is your car? A
20 growing number of banks and retailers are moving
21 beyond Social Security numbers to verify your ID.
22 They are relying on such personal details as your car
23 color, your father-in-law's name and the city you
24 lived in five years ago. No, never gave them this
25 information. They pulled it from public and private

1 data. Private details are increasingly being used
2 to," et cetera, et cetera.

3 I won't bore you by reading through it.
4 There it is, and I will stop there.

5 MS. SCHWARTZ: Thank you. I want to turn
6 next to Brent Embrey, who is the director of the
7 telephone privacy unit of the Indiana Attorney
8 General's Office.

9 And as a law enforcer, we have heard over the
10 last few days about the stress that all of these
11 developments are going to put on law enforcement. So
12 maybe you can speak to that.

13 MR. EMBREY: I guess I should give you one
14 perspective. My job in the consumer protection
15 division, where we get 11,000 complaints a year, is
16 to figure out what to do when things go wrong.

17 So if I sound like I might be coming from the
18 opposite angle, I do understand that we deal with the
19 cleanup angle of it.

20 It is very beneficial to have a conversation
21 in advance about what steps can be taken in terms of
22 best practices within the industry in particular to
23 try to stop some of these things from happening.

24 I can tell you from my experience we see a
25 lot that involve online transactions and security

1 breaches. That's what we are dealing with.

2 I would point out, to state the positive,
3 when you step back, as much as we get these consumer
4 complaints, I have never seen the real numbers, but
5 there are millions and millions of transactions that
6 happen every day without incident, which gives me
7 some confidence that something is working well.

8 The natural flip side to that is that fraud
9 is very easy with a computer. If you watched the
10 movie Catch Me If You Can and saw how he went through
11 the steps to create these identities and you listen
12 to that man Frank Abenal interviewed today, he will
13 tell you it is much easier to do today what he did
14 back in the early '70s.

15 It just cuts both ways. We have a lot more
16 choices available, but a lot more pitfalls we have to
17 watch for.

18 I would reinforce after listening to this and
19 from my own experience, the question for the next 10
20 years is who can you trust online. That's the
21 question. I almost feel like being an interloper in
22 the last conversation, because I think that is really
23 thematically where the industry and all the concerned
24 parties need to be.

25 I believe it is an opportunity for market

1 participants, quite frankly, to provide some great
2 consumer protections purely motivated by the market,
3 on the one hand, and if they do that, a great
4 opportunity for them based on their using best
5 practices in a variety of areas to make a pretty good
6 business for themselves, providing the good consumer
7 protections in their own online transactions.

8 In order to do that, they will have to
9 differentiate themselves in the way they handle the
10 privacy issues. I don't mean legally written privacy
11 statements but a privacy commitment that the
12 information that we as a company take from you is
13 going to stay with us and will be used only for the
14 purposes of servicing you, and they will have to be
15 the best they can at the security best practices
16 which are continually evolving.

17 They will have to have a very intense
18 customer focus and essentially guarantee they will
19 have a successful transaction on their system in
20 order to satisfy those customers. And then, of
21 course, things do go wrong sometimes, and if they do,
22 they have to be completely candid with their
23 customers as soon as they possibly can.

24 Even if you do experience a security breach,
25 something you couldn't possibly control, you need to

1 let your clients know as soon as you can.

2 Rather than hearing two months later that you
3 had a breach, they would appreciate knowing within a
4 week and that you made the effort to apprise them of
5 the situation, let them know what the odds are
6 something could happen, and then you can move on from
7 there and I suspect save a lot of faith with your
8 customers.

9 The rest that don't go that approach, my
10 opinion from where I sit in Indiana looking at my
11 consumer complaints I'm getting, the rest of them are
12 on a collision course with the public.

13 I don't think the public is anywhere close to
14 being aware of how much of their information is
15 captured, what is done with it and how many people
16 are able to touch it, either electronically or
17 physically if they want to print it out.

18 The issue is either going to be forced by the
19 government or forced by the public at some point. As
20 you have watched this Internet monster evolve, it has
21 regulated itself pretty well.

22 I would hope that the market gets itself to
23 that point before you have a huge public backlash.
24 People are just not aware.

25 I don't think if they watched this on TV that

1 the audience will get particularly big, but it will
2 be a big issue at some point.

3 I would suggest to you also, if we were
4 having this conversation about the next Tech-ade in
5 2016, that there are probably companies that will
6 have been able to establish brand loyalty based
7 entirely on their trustworthiness in the Internet
8 marketplace.

9 I think that's a very effective tool for
10 them. It is good business sense and helps consumers.
11 Our perspective in Indiana has always been try to
12 create a win-win situation. We want to find ways to
13 craft some solutions.

14 A couple of brief issues -- are we okay on
15 time?

16 MS. SCHWARTZ: Yes.

17 MR. EMBREY: It is a serious issue for
18 consumers in the next Tech-ade to figure out how to
19 engage the government when they have a problem with
20 some of these technologically related problems.

21 One are your standard Internet transactions.
22 If there are transactions that are occurring in the
23 United States, I think the attorneys general as a
24 group have done a good job of committing to policing
25 their own backyards.

1 We have had many, many cases that we have
2 sued online sellers, either via an eBay system or
3 some other electronic transaction who failed to
4 deliver, didn't do a good job or provided a bad
5 product. And even though there weren't any Indiana
6 consumers involved, that was our backyard and we were
7 going to be the ones to take care of that.

8 Likewise, there might be Indiana consumers
9 who get the benefit of Elliott Berg's work in Vermont
10 who do not live in Vermont.

11 But in the next decade, the international,
12 the global nature of our economy will make us look to
13 see if there are other options about how we handle
14 these kind of online transactions when they cross the
15 international boards.

16 We don't have too many options right now. We
17 do see complaints that involve Canada and involve
18 India and, of course, Nigeria. How can you miss that
19 one? That is probably a lost cause. We see a lot
20 from the Caribbean too.

21 There might be a point where the states and
22 the federal government need to be together and see if
23 there are provisions and treaties that allow us to
24 give some of our laws effect. We are completely
25 unqualified at the state level to do something like

1 that.

2 Don't forget your old friend, the telephone.
3 Because voice over Internet protocol is here and it
4 is growing. One of the best fraud-reduction programs
5 there is actually is the do not call program.

6 Indiana has a very aggressive one. That also
7 has to do with auto dialers and telemarketing fraud.
8 In that case it is all about the telephone records
9 and consumers being the one to actually step up and
10 help us with that.

11 We have two people who do nothing all day
12 except connect the dots and try to get that stuff
13 through phone records. In our auto dialer statute,
14 the day after Election Day, we have an auto dialer
15 statute that applies to political calls and after
16 warning everybody, we decided we wanted to make sure
17 everybody is on notice.

18 We were going to force this law in a couple
19 of hot races in southern Indiana, and 527
20 organizations, which I'm assuming people out here
21 understand, were very surprised when we were able to
22 figure out who they were and haul them into court
23 with phone records and the consumers who got recorded
24 messages and get them enjoined.

25 (Applause.)

1 We were bipartisan. One was advocating for
2 the Republicans and the other was advocating for the
3 Democrats.

4 It is very strict attention to detail if you
5 want to get at some of these technological issues as
6 a law enforcer. I don't think the consumers quite
7 understand how long it takes to try to identify who
8 may have defrauded you on the telephone.

9 Finally, identity theft, there will have to
10 be a better efforts with the federal state and local
11 people together. I think I have gone over my time.

12 You have people that have their identity
13 stolen but then somebody comes back a year later and
14 opens new accounts and there is nowhere for them to
15 go. We will have to do something about that.

16 MS. SCHWARTZ: Thank you so much.

17 The clean-up matter for this panel is Jerry
18 Berman. Jerry Baron is my former law dean at the law
19 school.

20 He is president and founder of the Center for
21 Democracy and Technology, working to promote
22 democracy in the digital age.

23 So, Jerry, it is your time on.

24 MR. BERMAN: First of all, I want to commend
25 the FTC for holding this very important set of

1 hearings.

2 I also had the benefit of being here 10 years
3 ago for that hearing. At that point it raised some
4 issues for me, and I have heard a lot of discussion
5 about some very critical Internet issues.

6 We raised those issues in a narrow-band
7 context 10 years ago. Now we are in a broadband and
8 digital convergence era, where there is not just
9 privacy but issues raised of whether we are going to
10 have an open and nondiscriminatory platform where
11 everyone can reach everyone and where users have
12 control over content.

13 That has been the glory of the Internet, and
14 we want to ensure it going forward. That is an
15 unresolved policy issue before our Congress, before
16 the FTC and the special groups. It ought to be
17 considered in much more depth.

18 There was a whole panel on digital rights
19 management. There is a laundry list on is digital
20 rights management restrictive, is it collecting
21 information. It was issue spotting.

22 But are we here issue spotting or trying to
23 set an agenda where, for example, the Federal Trade
24 Commission can play the role of trying to make sense
25 for the consumer, which is not just simply holding an

1 overview set of hearings like this but saying, okay,
2 let's drill down on digital rights management and
3 notice the transparency and interoperability, let's,
4 as Cliff Nagel said, set some benchmarks and bring
5 industry and consumer groups together and have a
6 dialogue and go in depth into these issues, explore
7 technology solutions, explore self-regulatory
8 solutions and say do we need legislation.

9 But let's say what are you going to do about
10 this problem, set some benchmarks and come back in a
11 year and go at it again.

12 That continuity and follow-through, whether
13 it is dealing with spyware or digital rights
14 management or net neutrality or an open net, that
15 kind of convening is a critical role that the FTC has
16 played in other contexts and which it can play here.

17 It is a very different context than saying
18 let's take our issue to the Hill where we can have
19 adversarial hearings and score points and just talk
20 at each other or file complaints before the FTC.

21 Which brings me to the kind of deja vu.
22 Let's say you could set an agenda and deal with some
23 of these hard issues of an open platform and digital
24 rights management and how do you protect copyright
25 and whether we are heading for authentication at one

1 end and a national ID card at the other end.

2 In the privacy area, this is where to me it
3 is deja vu all over again. That's where we started
4 10 years ago. The FTC has played an incredible role.

5 They were the first to start discussions.
6 Christine Varney convened people, said what are the
7 issues. There were surveys, privacy guidelines,
8 studies every year, more discussions with Chairman
9 Katofski.

10 I think that over a period of time, as
11 companies became comfortable with their
12 self-regulatory regimes out there, there has been a
13 growing sense that consumer trust is not going to
14 work with that alone and that we have now come to the
15 point where having a discussion that there are a lot
16 of privacy problems, we are beyond that.

17 It is already really ripe for Congressional
18 action. It nearly started last year, industry and
19 consumer groups all up there trying to get bipartisan
20 legislation.

21 I don't think the petition on privacy that my
22 sister organization filed under the FTC -- the forum
23 there is Congress because we have reached a point
24 where we think we know what we mean by notice, what
25 we mean by consent. We know that we need some very

1 simple short-form notice so that consumers know what
2 a privacy policy means and can use it and trust it
3 and know what a trust band is.

4 And that trustee has done some great work,
5 but we need to socialize that and find ways to do it
6 because people, consumers on the net do not know who
7 to trust. That has to be solved by I think
8 overarching legislation.

9 So yes, there's a big -- if you want to add
10 to a privacy agenda, then you would say the privacy
11 agenda is not the data privacy issue. We have some
12 ideas where that should go.

13 We have a very serious issue with
14 communications privacy. In 1986, Congress passed the
15 Electronic Communications Privacy Act which deals
16 with e-mail privacy and cell phone privacy.

17 That law is absolutely out of date. It does
18 not deal with stored communications, e-mail stored
19 with Google, has no protection against government
20 access.

21 There are inadequate rules to protect against
22 government surveillance and access and data mining of
23 enormous amounts of commercial data on the net.
24 There are no rules for location privacy, sensor
25 privacy, all of those new technologies that Peter

1 held up the device. They are out of date.

2 The law was passed before the Internet era
3 and before convergence. If you want to start a new
4 discussion there, start it.

5 I think a series of rich interactive hearings
6 and debates that brought together the different
7 sectors on an ongoing basis with some follow-up would
8 be a very important contribution.

9 We do not have a federal Internet commission.
10 We don't want one.

11 We also have problems with engaging our
12 European counterparts and Asian counterparts. We
13 have some serious global issues.

14 There has been over the last six years -- and
15 I don't want to talk about administration -- a lack
16 of a forum, a summit that convenes the Internet
17 community to say do we share a vision of an open,
18 healthy Internet and if we do, how do we work
19 together on that. And put aside whether we are
20 public interest principle people or whether we are
21 out for widgets.

22 Somewhere in between we all benefit from a
23 healthy Internet. We need to work together on that.

24 The FTC is a great forum for that. I don't
25 know how to think more systematically over how to do

1 that in time.

2 MS. SCHWARTZ: Excellent.

3 Does anybody want to respond to that? You
4 set the agenda for the FTC. It has been the agency
5 that has been a convener agency and I think prided
6 itself on independence and being able to convene
7 various groups and sit around the table and work at
8 issues like this.

9 Putting it into the plate of the FTC is
10 consistent with its history.

11 One of the things that I heard during the
12 week was a sense, perhaps coming more from business,
13 but I heard this theme repeated -- and I remember it
14 from '95 as well -- that this technology makes the
15 consumer king, they are in control, they can access
16 what they want when they want it.

17 They put content on the Internet. In other
18 words, it is very empowering. But then I listened to
19 what everyone is saying here and I get a very
20 different sense, that consumers don't know what the
21 rules are, that much is hidden from them, they have
22 concerns about how the Internet and other
23 technologies are working.

24 Susan, your comment is all about that. We
25 have these two conflicting images about these

1 technologies and where consumers see it.

2 MS. GRANT: Where consumers have been most
3 empowered is in spaces that have been least censored
4 like putting their videos on YouTube. There will be
5 efforts now to commercialize what isn't heavily
6 commercialized, to even offer people services for
7 free that they currently have to pay for in exchange
8 for having to be bombarded with different kinds of
9 commercial messages.

10 You could argue whether or not that's a good
11 bargain for consumers. There may not be much choice.
12 So in the end, saying that this is something that
13 consumers can consent to or not is kind of a specious
14 argument when this is the way that all of these Web
15 sites are and all of these businesses operate.

16 I think that businesses have to step back and
17 really think about what consumers want. One business
18 person during the session said that sometimes we try
19 things and we don't know whether consumers will like
20 them or not but we put something out there and that's
21 fine.

22 I imagine that's how a lot of business works
23 because even though you do market studies and so on,
24 you can't tell for sure what is going to catch fire
25 until it actually gets out there. Sometimes people

1 will take something and use it in a way that you
2 didn't anticipate.

3 But to say that consumers have as much
4 control, as has been alluded to during these
5 hearings, I think is not really true and there's no
6 reason, actually, why the Internet should be any
7 different than any other form of media in terms of
8 how it is used to persuade them and market to them.
9 That's the main thing.

10 MS. SCHWARTZ: Jerry, do you have anything?

11 MR. BERMAN: The difference between this
12 media versus other electronic media is no one has had
13 to ask permission to connect. Everyone can put an
14 application up there, whether you are YouTube or
15 Google or CDT.

16 That has been the democratizing piece of it.
17 You do not go to the cable operator and say can I put
18 my show on tonight. That is a very important issue.

19 Commercialization of the Internet is a
20 different issue. The complaint by the Center for
21 Digital Democracy raises the issue of
22 overcommercialization. But as John Stewart said when
23 they took his copyrighted materials, "if they don't
24 sell enough beer, there is no John Stewart."

25 It is a money-making venture, and the

1 alternatives being posed by the public interest
2 community is better business, we sell to each other.
3 It is also some form of -- there is no free lunch for
4 the Internet connection.

5 I must point out that while I hate
6 commercialization a lot and don't like the pop-ups,
7 it was the commercialization of the Internet, the
8 allowing of commercial traffic over what was once a
9 research network in 1992 that has created this
10 cornucopia of content and an explosion of creativity.

11 Before that, it was a closed network run for
12 research industries. It was commercialization and
13 allowing commercial traffic that is creating the
14 Internet that we have today.

15 MS. SCHWARTZ: Dawn, you want to comment and
16 then Jo.

17 MS. RIVERS BAKER: I think in the context of
18 the empowered consumer, this is an area where it is
19 really important to sort of emphasize the difference
20 between the operational realities of the companies
21 that the FTC has heard from since the beginning of
22 these hearings and the way that microbusinesses
23 operate, because there's a really very fine line
24 between microbusiness owners and consumers.

25 They have consumer sensibilities about a lot

1 of issues. So that for the most part,
2 microbusinesses don't do data mining. They don't
3 collect data. In fact, they don't want to know about
4 their customers. They don't want the onerous
5 responsibility about having to safely store somebody
6 else's data.

7 They would rather not have to do that at all.
8 Their privacy policies tend to be one-line statements
9 that say we don't tell anybody anything about you no
10 matter what, so that there aren't sentences buried
11 deep in privacy policies that essentially say this
12 privacy policy is useless.

13 Those are some of the things that
14 microbusinesses tend to do that come from that
15 consumer sensibility, where they themselves, not as
16 business owners but as consumers, think about how
17 much spying is possible when you go around online,
18 and they say I can and they say I don't want to do
19 that.

20 The other thing about microbusinesses that
21 differentiates them from the larger businesses that
22 control so much of the Internet is that they have
23 been baffling economists for a long time because
24 microbusiness owners make decisions about their
25 businesses for reason that have nothing to do with

1 maximizing their profits.

2 And because of that, in countless little
3 communities all over the Web, they discuss these
4 issues from ethical points of view and they talk
5 about how can we differentiate ourselves so that they
6 know we might make more money if we did that but we
7 aren't going to do that because we need you to trust
8 us because we don't have eBay's marketing budget. So
9 we need to learn how to develop relationships with
10 you.

11 I don't know if this is still the case. Back
12 in 2002, Forrester Research found these bitty
13 businesses had snagged a third of the retail market
14 operating like this. They have things to say. They
15 need to be included in the conversation.

16 MS. SCHWARTZ: Jo.

17 MS. REED: Yes, from a slightly different
18 perspective. When it comes to people age 50 to 65,
19 the way they use technology tends to be similar to
20 the general population.

21 Over 65 there is a difference. There is a
22 slower coming to comfort and ease with using advanced
23 technology.

24 We feel that it is very important that
25 transition systems be put in place to allow people to

1 come to this and the necessary uses of technology at
2 a pace that they are comfortable with.

3 For instance, many times people are starting
4 to notice that they can't get access to their
5 wireless phone bill, the specific lines that show
6 which phone numbers they called unless they access it
7 by the Internet.

8 Well, folks may be using it for writing to
9 their grandkids, but they are not comfortable going
10 in there and don't feel they should be required to do
11 that.

12 Likewise, the Securities and Exchange
13 Commission is now looking at doing a lot of
14 communication over the Internet, proxy voting, things
15 like that. A lot of voter people who are investors
16 want to continue to have access to it by paper.
17 There are cost efficiencies in going to the
18 electronic medium.

19 But our feeling is that these kinds of new
20 systems have to be built with the provision of choice
21 to people who aren't ready to go there yet, allow
22 them to enter that world at their own pace.

23 I just wanted to mention also about
24 disclosures. Disclosures I think Chairman Majoras
25 made the point that hidden disclosures online put in

1 someplace are difficult to make good use of as they
2 are in the paper format, and that's right.

3 In general, we think that disclosures need to
4 be tested by consumers, including older persons, for
5 whether they really get what was intended there. A
6 lot of times the lawyers figure it out and they are
7 quite certain this is exactly what will protect us
8 under the law. Whether the consumer has any clue of
9 what is intended or not is another matter.

10 Whether it is hidden or in actual type that
11 an older person's eyes can read, it needs to be
12 written in such a way that the consumer can
13 understand the intent.

14 MR. BERMAN: The legislation bandied about
15 the Hill was proposing a short notice system which
16 would allow the FTC to choose the technology and the
17 way to do that.

18 In other words, so that maybe it is icon
19 driven and you click it, and whenever you disclose
20 personal information, it really tells you. And then
21 it has a short like your calorie counter or -- what
22 do you call it -- nutrition label that would make
23 sense to people and be easy to learn, not that I am
24 not confused by all the different labeling.

25 But still that there has to be ways to

1 simplify it for the consumer. Because right now I
2 think I'm an Internet expert. I'm absolutely
3 confused and I click through most of these things. I
4 don't read them. I can't understand them. They are
5 written by lawyers for lawyers.

6 MS. SCHWARTZ: This kind of consumer choice
7 just deals with a very small part of the whole
8 privacy problem. There is so much that you have no
9 control over. There is no interaction between you
10 and the person --

11 MR. BERMAN: We talk about this notice choice
12 transparency in a privacy context when it really is a
13 much larger consumer issue across a number of things.
14 You want to know, you want transparency notice and
15 consent and choice about what you are buying when you
16 buy an iPod, and you want the same thing when you are
17 dealing with disclosing personal information.

18 We need a set of fair consumer practices that
19 apply to net transactions, not just -- and it is
20 bigger than a privacy issue.

21 MR. BRENDLER: I also heard a lot during the
22 last couple days about the evolution of mobile and
23 maybe cell phones are really going to surpass, they
24 will be better than PCs and this, that and the other
25 thing.

1 What I am concerned about is there is a lot
2 of talk about the marketability of local information.
3 In other words, I'm walking downtown, I have my cell
4 phone, I want to find out if there are restaurants
5 nearby.

6 What I hope the FTC would do as that
7 technology further develops is try to be aware of
8 places where trust is sort of taken out of the
9 equation for the consumer.

10 By that I mean I have my cell phone, I'm
11 looking for a place to eat and what I'm getting on
12 there is something somebody has paid to put there as
13 opposed to a legitimate look at the nearby
14 restaurants.

15 There are a lot of good actors in the search
16 engine world. Google is very good at labeling. But
17 at the local level, where you see city search and
18 local restaurant search, there is a lot of
19 pay-to-play material that is not disclosed to them as
20 that.

21 That's also an opportunity for other things
22 to appear in that domain I think that consumers won't
23 even necessarily know what choices they are making.

24 MS. SCHWARTZ: I hear the chimes. And being
25 a GW law professor, I know that means it is actually

1 5:00, unless they are a little bit ahead. I think I
2 would like to draw this to a conclusion.

3 I was very much involved in the 1995 FTC
4 high-tech global hearings. I think this is building
5 on those hearings and that we are looking at a very
6 much changed marketplace but not that much of a
7 surprise, really, of how the developments have
8 occurred since 1995 until where we are today.

9 I think the Commission has done a wonderful
10 job and Katie Harrington-McBride in putting this
11 together to really bring people of various expertise
12 and experience and perspective to start I think what
13 is going to be a continuing dialogue about what the
14 challenges are ahead.

15 I thank you all, participants, for coming
16 today and sharing with the group.

17 (Applause.)

18 MS. HARRINGTON-MCBRIDE: Well, good
19 afternoon.

20 I am delighted to see, although I have to
21 squint to do it, so many of you still in the audience
22 hanging on until the last.

23 We have had such a wonderful experience,
24 those of us at the FTC who worked on the planning
25 committee for the Tech-ade hearings. It was hard

1 work, but we really enjoyed the interplay between
2 those of us on the working group. And we so
3 appreciate your participation in this event.

4 (Applause.)

5 You guys are good. I don't even have to tell
6 you to give yourselves a hand.

7 We are now to the point where we are going to
8 have some concluding remarks. I am so delighted to
9 have with us the director of the Bureau of Consumer
10 Protection at the FTC and also joining us from the
11 European Commission, Mr. Tamas Andres Molnar.

12 And we will have a short moderated
13 discussion. We would also like to hear from you. In
14 so many of the panels, we have been going at a full
15 tilt and haven't been able to answer your questions
16 in realtime.

17 We have kept them and are going to try to
18 blog them in the coming weeks. This is an
19 opportunity for you if you have questions for our
20 panelists to put those cards up in the air, and we
21 will have one of our question card takers come and
22 take it to me and we will try to incorporate you in
23 this closing dialogue.

24 With that said, let me turn to my panelists
25 and to welcome you both. Thank you for agreeing to

1 do this. It is a great way to close out this event
2 to hear from you, consumer protection officials from
3 the EU and the U.S., to get your perspectives.

4 One of the things I heard was a lot will be
5 changing in the next 10 years, everything from
6 whether our beds can record our respirations to how
7 we pay for things, perhaps using our thumbs, to how
8 we draw content off the Internet and what we watch it
9 from.

10 There are a lot of changes coming. Have you
11 had an opportunity to distill out what will be the
12 major challenges that face consumer protection
13 officials going forward? Lydia?

14 MS. PARNES: These are just a few initial
15 thoughts.

16 We heard so much in the past three days. But
17 the first thought is that we have heard from experts
18 from throughout the world about the tremendous
19 changes that we will see in technology over the next
20 Tech-ade, and the changes are incredibly exciting.

21 But almost every panel has sounded an alert
22 about the consumer protection issues that will
23 confront us.

24 The first thing is, for those of you who work
25 at the FTC, you won't be out of a job. We will still

1 be in business in the next Tech-ade.

2 I think the second thing that struck me is
3 how important consumer education will continue to be.

4 We have heard that consumers are changing,
5 they are not the passive recipients of ads anymore.
6 They create content. And they become very
7 sophisticated users.

8 That's really true for some consumers. But
9 some consumers are really overwhelmed by new
10 technology. They don't know how to use it. Or maybe
11 they are scared about the risks associated with new
12 technology.

13 And, frankly, we heard from some people that
14 there are some consumers who simply can't afford new
15 technology, they are priced out of it. For all of
16 those people, we are going to need to be crafting
17 consumer education messages, and I think one thing is
18 that it is more complicated, that the new
19 technologies will make those messages even more
20 complicated to craft.

21 And I think just quickly, the final thing
22 that struck me is how fitting it is that we are
23 sitting here together closing out the dialogue today.

24 Consumer protection is international. There
25 is no doubt about it. It was one of the principles

1 that we defined in the 1996 report, and I just have
2 to note that Teresa Schwartz, who was up here
3 moderating the panel that you just saw, very modestly
4 said that she had a hand in those hearings.

5 Teresa, if you are back in the green room and
6 listening to this, don't blush, but she really was
7 the principal architect of the hearings and the very
8 elegant report that the Commission issued after those
9 hearings.

10 But a principle that was established there is
11 that consumer protection is international. And we
12 have seen that play out over the past 10 years. And
13 we know that it will continue to play out over the
14 next.

15 So those are just some kind of quick
16 observations.

17 MS. HARRINGTON-MCBRIDE: That distills a lot
18 of the essence out of what we heard.

19 What are your thoughts about the primary
20 challenges facing us as consumer protection
21 regulators?

22 MR. MOLNAR: First of all, I will say it was
23 very interesting to listen to the ideas and the
24 problems from the point of view that the same
25 discussions could have been done in Europe, in

1 Brussels as well.

2 So it is really underlying what Ms. Parnes
3 just said, that we have international issues. I
4 cannot speak anymore about national problems because
5 of the globalization because of the Internet.

6 Whenever we have goodwill or bad will behind
7 an action, it can be coming from your country, my
8 country or from a third country. So we have to work
9 together.

10 Over the next 10 years, to be honest, when I
11 get first the invitation, I got a feeling, very, oh,
12 gosh, the Americans are again ahead of Europe because
13 we are building only a seven-year plan.

14 But after being here today, there was a
15 question when the moderator asked the people, the
16 members of the panel how do you see the future in a
17 10-year time, and they seemed puzzled. It was okay
18 in the next five years.

19 So then I felt okay. We are on the right
20 pace. But a few words, seriously.

21 It is a very good timing for me because in
22 Europe, the European Commission is just putting
23 together a strategy for the next seven years.

24 2007-2013.

25 I have a very good background knowledge about

1 that, what we want to concentrate on and what are the
2 major issues.

3 I need to say that the first two has already
4 been mentioned right now. So priority one probably
5 for the EU is the capacity building. And under
6 capacity building, we understand not only information
7 to the customers or the consumers, because it is
8 important but it is just not enough.

9 We will provide online education. It is
10 available on the Web site and anyone can go there,
11 and since Europe is multilingual, it is available in
12 20 languages. Even the content is different,
13 expressing the international differences of education
14 and anything else.

15 MS. HARRINGTON-MCBRIDE: We were talking in
16 the green room about the extraordinary challenges of
17 bringing together so many member nations in the
18 European Union, and the challenges just of language
19 alone are daunting. It puts in perspective our
20 three-day effort here.

21 MR. MOLNAR: Speaking about capacity
22 building, in the second place I would mention the
23 consumer organizations because we understand it is
24 very important that the consumer organizations should
25 have more active role. They should understand more

1 the business they are involved in.

2 The European Commission would like to provide
3 that help to them. It is a shift to what the
4 knowledge base is from the financial support.

5 So we will try to increase the knowledge,
6 what they have.

7 And the capacity building, it concerns also
8 the member states and the European Commission. We
9 want to understand better what is going on, what are
10 the major issues, what are the policy issues, where
11 we should concentrate and where we should act on.

12 We are really concentrating on these points.
13 The second priority is it has already been mentioned
14 also. This is enforcement.

15 We say that we live in a liabilized life.
16 Every company has the right to do whatever they want.
17 As long as they follow the rules, they are free to do
18 that.

19 But then we need to give some incentive to
20 those who really do that. And we should try to
21 enforce the others to obey the law. So we say that
22 okay, you can do whatever you want, but we want to
23 make real enforcementment, we want to check that you
24 are really following the rules.

25 It is not that easy because in Europe, we

1 have different challenges. The European Commission
2 doesn't have -- at least in this field we don't have
3 enforcement power. So the enforcement is actually on
4 a national level.

5 So we can only encourage the member states to
6 make the enforcement more efficient.

7 And the third one is a very hot topic. I
8 think this is part of that already. This is
9 networking. Since there are so many of us already in
10 Europe, we understand how important, how difficult it
11 is to cooperate with others.

12 It is difficult to cooperate between consumer
13 organizations, difficult to cooperate between the
14 member states, the competent authorities and
15 difficult to cooperate on international level with
16 third countries.

17 Therefore, we want to give special weight to
18 this one and we will concentrate in these three
19 areas.

20 MS. HARRINGTON-MCBRIDE: I think that is very
21 exciting to hear. There were some in the audience
22 who attended the international breakfast, and at that
23 breakfast Mr. Bill Kovacic made some very erudite
24 remarks, but he referenced an old and dear friend
25 Professor Louie Sone, who recently passed away and

1 who is one of the lead figures in the post-war world.

2 Professor Sone developed a paradigm where he
3 thought nations needed to go in terms of cooperation.
4 One of the points I took away from Commissioner
5 Kovacic's remarks, he noted there needed to be
6 conveners, folks who in the international community
7 will set up opportunities for networking, because it
8 is so difficult in the context of performing our
9 duties on a daily basis to take the time even to
10 properly network with our own colleagues.

11 That's one of the reasons why this is such an
12 exciting and fun project, to know we would have the
13 opportunity at the end of the day to spend tomorrow
14 talking with our colleagues about what are the
15 takeaways and what do we need to do going forward.

16 That networking piece will be stepped up a
17 bit as a result of our efforts here.

18 Lydia, something you said about consumer
19 education puts me in mind to ask a question as we
20 have had as we have begun to do our research on this.
21 There are some challenges because we have so many
22 different audiences and some striation in terms of
23 economics and people's willingness to engage with
24 technology.

25 I think there are some real challenges, but I

1 wonder if that can present us with some real
2 opportunities to be there at the teachable moment, to
3 maybe use the technology in a way that allows us to
4 help consumers make good decisions.

5 I'm put in mind of Bongo, the monkey, here in
6 thinking about how persuasion technologies might
7 become helpful to law enforcement as we help people
8 to make good choices in the online world.

9 Do you have any thoughts about that?

10 MS. PARNES: Absolutely. I think that is so
11 true.

12 As you know, we have a consumer and business
13 education group that has really educated us at the
14 Commission about the teachable moment and kind of
15 finding that opportunity to really get the word out
16 to consumers. I think they have done that very
17 effectively already with some of the online
18 educational materials that are up there.

19 Carolyn Shanoff mentioned EnGuard Online. It
20 is terrific, just terrific modules. For those of you
21 who are listening to this on the Webcast, if you are
22 still with us, you are sitting in front of your
23 computers, I would encourage you to go look at
24 EnGuard Online if you haven't seen it already.

25 I think we can use technology to do that. I

1 think reaching the youngest consumers is really
2 important as we look ahead. We heard about how the
3 age you are really affects how you see the world.

4 And I think that we will be looking at that
5 as well, kind of figuring out how we can reach kids
6 to really educate them early on about consumer
7 protection issues. And I think for this generation,
8 consumer protection issues are technology issues.

9 MS. HARRINGTON-MCBRIDE: I think that's
10 right.

11 Tamas, do you have any thoughts about the use
12 of technology in consumer education?

13 It sounds like your Web site utilizes
14 technology in terms of translation and providing
15 diverse materials to diverse groups. Are there any
16 plans to try to harness technology to get a consumer
17 protection message out?

18 MR. MOLNAR: Yes. This is one of the major
19 projects which I already mentioned. Besides that,
20 especially because the EU is continuously growing,
21 I'm also myself one of the countries that joined the
22 EU quite recently, in 2004.

23 We are carrying out information campaigns for
24 consumers in these countries about the rights, what
25 rights they have, what are the basic messages, what

1 they should be aware of, what the EU provides them,
2 what are the benefits of cross-border purchasing
3 because people have taught us on it.

4 Otherwise, they will not be able to use the
5 best use of that.

6 However, there is big challenge there because
7 certain studies in the EU showed that it is not
8 enough to create the message. 15 to 20 percent of
9 the population in Europe literally is not able to
10 understand the text, what they read. 15 to 20
11 percent of the rest, 80 percent, is not able to
12 analyze the data.

13 So if you tell them a mathematic model, it is
14 not good enough. In my country there is an
15 advertisement on the television providing small
16 amounts, loans, and since the law requires them to
17 put down the interest rate, they put it with big
18 letters and they say that "easy access interest rate
19 250 to 360 percent per year." This is the
20 advertisement.

21 So as long as such kind of advertisement is
22 admissible at the national commercial channel, you
23 cannot go any further explaining any more complicated
24 issues. These are issues which we need to
25 concentrate on, what is the message, what are the

1 targeted groups, how they can consume or digest the
2 information, what you want to pass over.

3 MS. HARRINGTON-MCBRIDE: There are a lot of
4 challenges in terms of leveling the playing field and
5 getting a common understanding.

6 I think that Lydia, you mentioned starting at
7 the earliest ages and reaching out to consumers so
8 that it becomes a fundamental part of their
9 education. I think that's an exciting idea.

10 One of the things you talked about is the
11 idea of collaboration. I don't think there is anyone
12 in the room in law enforcement or not who would
13 disagree with the proposition for law enforcers and
14 policy makers around the world to collaborate.

15 What, though, are some of the stumbling
16 blocks that we have run up against and what are some
17 of the ideas going forward for maybe smoothing the
18 waters and ensuring in the next 10 years our
19 collaboration can be even more effective?

20 MS. PARNES: Would you like me to go first on
21 that?

22 It's an excellent question. I think that
23 some of the stumbling blocks that we faced maybe
24 five, six, seven years ago, the biggest one is just
25 that we hadn't worked together. And I think it's --

1 and that may be going back longer. It could be going
2 back more like 10 years.

3 I think the fact that bringing in
4 collaborative law enforcement was just, to coin a
5 term, foreign to us.

6 And I think that once we have done this and
7 we have seen that we can take steps and have
8 successes, I think we have on both sides been very
9 encouraged and we have had a lot of successes. I
10 think we will continue.

11 Do you think that there have been really
12 specific challenges that we still face?

13 MR. MOLNAR: I think we have -- if I come
14 back to this idea of networking on an international
15 level, probably this is one of the points where we
16 have very good chances to improve.

17 Today, earlier some members of the panel,
18 previous panels here, they already mentioned that
19 technology improves so fast that we are not able to
20 anticipate it in advance. We can probably only
21 follow it. But how fast we follow it, this is the
22 question.

23 So in Europe, we try to put together
24 enforcement alternatives. We created a network and
25 they have to provide help to each other if it is

1 requested. They have to cooperate.

2 So it is not a service. This is not some
3 gesture to you. This is about obligation. I know
4 that in the U.S., there are also indicative steps for
5 that. I hope it will come to success also.

6 It will generate a very good starting
7 position between the U.S. and the EU to come to the
8 next level when we know what is our legal base, what
9 we can do, we understand what you can do here or
10 maybe third parties somewhere else in the world.

11 MS. PARNES: I think several of our
12 commissioners mentioned that we are very hopeful that
13 the U.S. Safe Web Act will be enacted into law, and
14 that would really put us in a position to be able to
15 share information and work much more collaboratively
16 with our counterparts in Europe and elsewhere in the
17 world.

18 I think, again, when we started our
19 international program, I think it seemed very
20 daunting to us that our legal frameworks were so
21 different.

22 But we really quickly got over that. I look
23 at an area now like privacy and I think that the
24 European perspective on privacy and the U.S.
25 perspective on privacy really are different.

1 But I have talked to colleagues in the
2 Article 29 Commission, the working group, and our
3 bottom line is the same. We all want to protect our
4 consumers from injury. And I think that really gives
5 us a leg up, because we have the same goals.

6 So it enables us to find a way to work
7 together. We are optimists.

8 MS. HARRINGTON-MCBRIDE: It is a glass half
9 full kind of Tech-ade.

10 Are there any questions from the audience? I
11 feel guilty about having deprived you all of the
12 opportunity in every preceding session. So I really
13 want to know. Tell us now.

14 Okay. Well, hopefully many of you will be at
15 our government-only day tomorrow and we will have an
16 opportunity to further our discussion.

17 I very much appreciate you taking the time,
18 both of you, to talk with us. I know Lydia, you have
19 some concluding remarks you would like to make.

20 MS. PARNES: Yes. Thank you, Katie.

21 Just very quickly. First of all, to thank
22 everybody who has been here. It has been really
23 remarkable. I have to note that a lot of our
24 panelists referred to movies over the past three
25 days. My favorites are Woody Allen's Sleeper and

1 2001 Space Odyssey and, of course, Minority Report,
2 which should be like the Tech-ade theme movie.

3 Movies really give us vivid images and they
4 endure. But one that has come to mind for me is a
5 movie that I actually watched this past weekend and
6 it seems so particularly appropriate after the
7 election, The Candidate with Robert Redford.

8 Those of you who have seen this movie will
9 remember that Robert Redford is running for the
10 Senate in California and he is not going to win, you
11 know it, that's the deal. It's an election that he
12 is not going to win. And there is a big upset and he
13 wins. And the guy has no platform and he turns to
14 his seasoned campaign manager and says "now what?"

15 And that's kind of a little bit like what I
16 feel like. We have had the most unbelievable three
17 days. And the question that we have, "okay, now
18 what?"

19 Well, what we are going to do back at the
20 ranch, back at the FTC is really take a very careful
21 look at the amazing wealth of information that all of
22 our participants have presented. We have really
23 heard about visions of future technology, artificial
24 intelligence, virtual world, social networking, RFID,
25 and my favorite, the oven that you operated with a

1 cell phone.

2 We have heard the vision of the implications
3 of some of these new technologies. And what
4 particularly comes to mind is the very chilling PSA
5 that Commissioner Harbour showed during her
6 presentation, some of the real risks associated with
7 social networking. And we have seen some really just
8 charming presentations and Bongo, the stuffed monkey,
9 and his battle to get on to a weather report online.

10 But I think that most importantly what we
11 have learned from the insights, experience and vision
12 from all of the people who have participated in this
13 is that we all think about new things and think about
14 some old things in new ways.

15 The world is changing. Consumers are
16 changing. And the people who have participated, all
17 of you have really helped us understand the role of
18 technology in this transformation.

19 I want to first extend my thanks to everyone
20 who has participated and all the people at the FTC,
21 Katie, and the whole Tech-ade team who has done such
22 an amazing job of putting this together.

23 (Applause.)

24 And tomorrow, it is not over. It is not over
25 tomorrow. Law enforcers from throughout the United

1 States and around the globe will be meeting back at
2 the FTC to discuss specifically what we can do
3 together in response to what we have heard today.
4 And the discussions are likely to have great bearing
5 on how we approach law enforcement and policy
6 development and advocacy and consumer education.

7 In short, I know that what we have heard
8 today will be instrumental in evaluating how we
9 perform the critical functions in fulfilling our core
10 mission of consumer protection.

11 As Chairman Majoras noted in her opening
12 remarks, the global hearings in 1995 helped to set
13 the agency's consumer protection agenda for the next
14 decade. Our discussions will provide a similar solid
15 foundation for our next Tech-ade of consumer
16 protection policy.

17 We will be drilling down into all of the data
18 we have, and in the very near future we will be
19 issuing a report presenting what was said during
20 these hearings and discussing its implications for
21 consumer protection.

22 So stay tuned and thank you all very much.

23 (Applause.)

24 MS. PARNES: We have one last video.

25 MS. HARRINGTON-MCBRIDE: We do. Our mantra

1 has been that the past is prelude. There seemed no
2 more fitting end to turn to the reflections of a
3 cyber patriot as we close.

4 (Whereupon, the video was played.)

5 MS. HARRINGTON-MCBRIDE: Thank you all very
6 much.

7 (Whereupon, at 5:30 p.m., the hearing was
8 concluded.)

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1 C E R T I F I C A T I O N O F R E P O R T E R

2

3 DOCKET/FILE NUMBER: P064101

4 CASE TITLE: PROTECTING CONSUMERS IN THE NEXT TECH-ADE

5 HEARING DATE: NOVEMBER 8, 2006

6

7 I HEREBY CERTIFY that the transcript
8 contained herein is a full and accurate transcript of
9 the notes taken by me at the hearing on the above
10 cause before the FEDERAL TRADE COMMISSION to the best
11 of my knowledge and belief.

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DATED: NOVEMBER 21, 2006

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