

1 A F T E R N O O N S E S S I O N

2 **PANEL 3:** Current and Emerging Frameworks for Protecting
3 Consumer Information

4 MS. GARRISON: We appreciate your coming back
5 so promptly. We're sorry we're running just a few
6 minutes late to catch the stragglers.

7 Once again, I'm Loretta Garrison from the
8 Federal Trade Commission. I'm joined today by James
9 Silver, and we'll be managing panel three.

10 We're delighted that so many of you could join
11 us for this second half of a two-day workshop on
12 technology for protecting consumer information. We
13 opened our discussions this morning on the business
14 experience, engaging our panelists in some role-playing
15 around a hypothetical business consultant situation. Our
16 equity actors were charged with devising a business plan,
17 then to advise a confederation of retirement communities
18 on privacy and security issues raised by implementing
19 certain technology services for their seniors in their
20 communities. We hope that the issues that were raised in
21 that discussion continue to be amplified as we go through
22 the day.

23 We also learned about many technological tools
24 that are available to help businesses protect consumers'
25 personal information and we'll be talking more about that

1 in this panel. In particular, we're going to discuss
2 current and emerging frameworks for protecting consumer
3 information.

4 As you'll see shortly, there's a wide variety
5 of approaches here.

6 We have both regulatory and voluntary.

7 We have very highly technical and also high-
8 level principles.

9 You'll hear first from each presenter a very
10 brief overview of a particular framework.

11 Then we're going to move into a broad panel
12 discussion to explore the commonalities among these
13 frameworks, the barriers and incentives to implementing
14 the frameworks, and whether and how we hold businesses
15 accountable for implementing the frameworks.

16 I'd like to first introduce to you the panel.

17 From my far right, we have Larry Clinton from
18 the Internet Security Alliance.

19 Next to him is David Fares, U.S. Council for
20 International Business.

21 Laura Lundin from BITS, the Technology Group
22 for the Financial Services Roundtable.

23 And here, even though you can't see him yet, is
24 the one and only Mark MacCarthy from Visa.

25 Next to James is Fran Maier from TRUSTe, Frank

1 Reeder from the Center for Internet Security, and Laura
2 Berger, an attorney with the Federal Trade Commission.

3 Larry, I'd like you to open, please.

4 MR. CLINTON: Thank you very much.

5 I have promised Loretta that I will do this in
6 five minutes or less, so if I finish mid-sentence, just
7 let me know.

8 I'm Larry Clinton with the Internet Security
9 Alliance.

10 I want to let you know, first of all, who it is
11 that we are.

12 The Internet Security Alliance was created
13 about six months prior to 9/11 because the folks at the
14 CERT Coordination Center, which, for those of you who
15 don't know, is essentially the fire department for the
16 Internet. They do all the really hard-core, geeky threat
17 vulnerability analysis. They combined with the
18 Electronic Industry Alliance, because CERT was primarily
19 getting this information to the Federal Government, and
20 the private sector, as we know, operates about 90 percent
21 of the Internet.

22 So, that's what the Internet Security Alliance
23 is supposed to do.

24 This is a list of our board of directors. A
25 couple of quick comments about that.

1 We are aggressively international. We are non-
2 NISEC in the sense that we do not operate within domestic
3 cylinders. We are also aggressively inter-sectoral. We
4 have AIG Insurance. We have Visa and Verizon. We have
5 Nortel Networks. We have TATA from India, Sony from
6 Japan, C&W from Britain, et cetera.

7 This is the Internet. We all recognize this.
8 I remember the Internet when this was first put out in
9 1980. Everybody thought this was very complicated. How
10 could we possibly deal with that?

11 This is the Internet today, which is a little
12 bit more difficult to deal with.

13 Last time I was here, I noted that that really
14 intense purple area is the FTC. I've been told that it
15 is not. Actually, that's my daughter downloading music.

16 What is interesting here is the trend line.
17 Despite all the attention that we are giving security --
18 and you've seen a lot of technologies that have gone
19 earlier today -- the trendline for security incidents is
20 straight up through the top. Incidents and
21 vulnerabilities are increasing 500 percent a year.

22 So, what we are advocating is that we come up
23 with a system.

24 There is no magic bullet. There is no single
25 technology. You have to have an entire system.

1 We advocate investing in cyber-security,
2 considering risk mitigation. One of the things that
3 we're going to be talking about today is new initiatives
4 and whether or not the national strategy provides enough
5 of these new initiatives.

6 One of the things we do with the Internet
7 Security Alliance is we have a deal with AIG Insurance,
8 the largest provider of cyber-insurance. If you become a
9 member of the Internet Security Alliance and subscribe to
10 our best practices, we will lower your insurance rates 15
11 percent.

12 We are trying to provide a market-based
13 incentive program.

14 Mark MacCarthy is one of our members at Visa.
15 Visa has a similar program. If you want to use a Visa
16 card, swipe a Visa card in a store, you have to have a
17 certain level of security.

18 What we're trying to do is come up with market-
19 based incentives, because the traditional regulatory
20 models won't work.

21 You can't use an FCC-style model where we're
22 telling everybody in public comment what's around.
23 You're then providing a road map for all of the nefarious
24 people. You can't come up with a three-year program to
25 provide regulatory structure, because by the end of it,

1 the Internet's entirely changed. If you do it in the
2 United States, it doesn't help you internationally. We
3 need a new model.

4 We also think that people need to become
5 involved in the policy debate so that we can consider
6 this.

7 We also strongly advocate the adoption of best
8 practices, and we have a list of them that I'll provide
9 you in a moment.

10 These have been endorsed by TechNet, U.S.-India
11 Business Council.

12 We are trying to export these.

13 We, frankly, don't need to write more new best
14 practices right now.

15 What we need to do is start implementing them,
16 and we strongly advocate joining an information-sharing
17 organization. Only if the information is shared between
18 operators of the Internet and the vendors are we going to
19 get anyplace.

20 The Internet Security Alliance operates with
21 the CERT data.

22 We put out these best practices. We attempt to
23 get people involved in them, and then we provide economic
24 incentives if they will adopt them.

25 Here is a list of the best practices. They're

1 available on our website. I also have hard copies
2 available, if people want to look at them here today.
3 Here is what we go through in terms of our education and
4 training.

5 Again, we try to provide at discounted rates
6 the best possible training coming out of the CERT
7 Coordination Center.

8 Not only do you need to have a policy, not only
9 do you need to have practices, not only do you need to
10 have technology, you need to have things that are going
11 to make sure that people use the technology.

12 The comments made before about the wooden
13 doorstep in the previous panel I thought were very
14 excellent. That's exactly what we have.

15 It's irrelevant if you have a great password
16 technology and everybody is still sticking their password
17 on their computer so they can remember it. We need
18 training for everybody.

19 This is a copy of the special communications
20 that we provide through the CERT Coordination Center.

21 For time purposes, I won't go through it any
22 further.

23 Again, if anybody has any questions for me,
24 please contact us.

25 Our role is to try to expand the security

1 perimeter in a market-based fashion, and we're looking
2 forward to and very grateful for the help that we've had
3 with the FTC.

4 Thank you.

5 MS. GARRISON: Thank you very much, Larry.

6 David.

7 MR. FARES: Thank you.

8 I'm just going to remain seated. Can everyone
9 hear me?

10 Okay. I'm going to focus my initial remarks
11 today on the work of the Organization for Economic
12 Cooperation and Development, which is a grouping of the
13 30 most industrialized economies in the world. The
14 organization is located in Paris.

15 My organization, the U.S. Council for
16 International Business, is the U.S. affiliate of the
17 business and industry advisory committee, which is the
18 constitutionally chartered voice of business in the OECD.

19 The OECD recently issued a revised set of
20 security guidelines.

21 The guidelines were initially adopted in 1992
22 when systems were largely closed.

23 They realized, in the built-in review process,
24 which is scheduled for every five years, that they
25 probably needed to be updated to take into consideration

1 the shift from closed networks to open networks.

2 Luckily for me, the OECD guidelines and our
3 work is not highly technical, because I'm not a techie.

4 So, I'm able to meaningfully participate in the
5 work that we do.

6 But the OECD guidelines coined the phrase
7 "promoting a culture of security." The person that asked
8 the last question before the end of the last panel was
9 talking about the fact that consumers don't know enough
10 about security and that we need common-sense security.

11 That's exactly what the OECD guidelines attempt
12 to address.

13 In very simple, plain language, it states that
14 every participant in the information society has to
15 assume a role appropriate to them to promote security.
16 Awareness of security issues and responsibility are
17 elements of the OECD security guidelines.

18 So I would recommend that all of you take a
19 look at the OECD guidelines. As I said, it's not a
20 technical document but, rather, a document that frames
21 how every participant should analyze what their
22 responsibilities are and what their engagement should be
23 in promoting a culture of security.

24 You can access the guidelines at www.oecd.org.

25 We are working to help promote business

1 implementation of those guidelines.

2 To that end, we held a workshop in conjunction
3 with the FTC where Commissioner Swindle spoke, inviting
4 cross-sectoral industry associations to promote a culture
5 of security with their members, and we were lucky enough
6 to have Larry participate in that workshop.

7 We are also expanding upon the OECD guidelines.

8 We are developing BIAC, along with the
9 International Chamber of Commerce of which we're also the
10 U.S. affiliate. We are developing a business checklist,
11 a business commentary on the type of questions that
12 executives should be asking their IT department, so that
13 there is top-level support, as well as bottom-up
14 approaches to security.

15 And then, a next stage of our work will be to
16 develop a checklist for small and medium-size enterprises
17 and companies in the developing world. Again, it's not
18 going to be a set of best practices but a series of
19 questions that these types of companies should be asking
20 themselves when they're developing their security policy.

21 We also have on our website links to many
22 different resources for security that businesses can
23 utilize.

24 We have a link to the Internet Security
25 Alliance's documents and to other documents, and our

1 website is www.uscib.org.

2 And with that, I will stop.

3 I've left some information in the back for you
4 which gives a summary of our draft business commentary.
5 It should be concluded by the end of this summer, and at
6 that point, it will be accessible from our website. I
7 won't bother giving you the ICC and BIAC websites. It's
8 in the document on the back table.

9 Thank you, Loretta.

10 MS. GARRISON: Thank you very much, David, and
11 I hope that all of you in the audience have checked out
12 the materials that we do have on the table, because
13 there's a lot of additional resource material for you.

14 Laura Lundin.

15 MS. LUNDIN: Thank you. Thank you, Loretta.

16 I am with an organization called BITS. BITS,
17 for those that don't know, is the technology arm for the
18 Financial Services Roundtable.

19 We are a business and technology strategy
20 group, working on a variety of issues for the financial
21 services industry.

22 Our primary membership is the 100 largest
23 financial institutions in the U.S.

24 As you might imagine, this group is very
25 sophisticated when it comes to information security, and

1 it's often thought of as leaders in this area.

2 Part of that is driven by the regulatory
3 environment in which we operate.

4 However, the two frameworks that I want to
5 bring to the table today are some things that the
6 industry has worked on through BITS, and it really
7 addresses the products and the services that are used by
8 the industry. The industry realizes that, as strong as
9 its policies and its procedures and the technologies that
10 it uses in the information security world are, it doesn't
11 stop there.

12 It has to go beyond its boundaries, and it
13 really depends on the vendors and the products and the
14 services that it uses.

15 On the products side, we have started a product
16 certification program.

17 This program is three-plus years in the making.
18 We have corralled the industry to develop consensus-based
19 minimum security features that it is going to look for in
20 the products that it buys.

21 Most recently, we've harmonized this program
22 with the government's common criteria certification
23 program. So, now a vendor going through the common
24 criteria certification effort can also meet the
25 requirements that the financial services industry has set

1 forth.

2 On the services side, we have developed a
3 framework for technology risk management of service
4 providers. Out-sourcing is being used more and more in
5 every industry, including the financial services
6 industry. What we've found is there has to be, again, a
7 common set of security policies and procedures that are
8 followed by the providers of the services to the
9 industry.

10 Our framework addresses security from
11 everything from the decision to out-source to the RFP
12 process, the contracting, the insurance process, ongoing
13 management relationships.

14 That framework is currently being updated right
15 now to address some specific issues around security
16 assessments, the more specific issues dealing with cross-
17 border out-sourcing, out-sourcing to international
18 organizations, as well as some additional measures around
19 business continuity. Of course, this framework actually
20 came out just around the 9/11 time-frame, but now that's
21 obviously an area that has to go back and be revisited.

22 Both frameworks, the requirements that create
23 both of these programs, can be found on the BITS website.
24 They are public documents.

25 The web site is www.bitsinfo.org.

1 I also have a one-page hand-out outside that
2 specifically talks about the production certification
3 side of the house.

4 MS. GARRISON: Good. Thank you very much,
5 Laura.

6 Mark.

7 MR. MacCARTHY: Thanks very much.

8 Let me tell you a little bit about the Visa
9 card-holder information security program.

10 In the first instance, these are a series of
11 requirements that have been developed for Internet
12 merchants and processors, but it's important to remember
13 that they've been a requirement of the Visa system for a
14 long time -- that those who handle card-holder
15 information do so in a secure fashion. A couple of years
16 ago, we made those requirements more specific through the
17 card-holder information security program, initially for
18 the Internet. I want to tell you a little bit about why
19 we started with the Internet.

20 Basically, it's because it's a new channel,
21 there are new risks, and there's some brand issues
22 related to the use of Visa cards on the Internet. But
23 it's also important to remember that CISP, the card-
24 holder information security program, is moving beyond the
25 Internet.

1 It applies now to all entities who touch Visa
2 card-holder information, and eventually, CISP is going to
3 apply to all payment channels, not just to the Internet.
4 But we started with the Internet because it was a new
5 channel for Visa.

6 It's a growing part of our overall electronic
7 commerce.

8 It is 6 percent, almost 7 percent, in 2002, of
9 our overall sales.

10 It's up from 4 percent in 2001 and 2 percent in
11 2000, and payment cards are used to make most of the
12 sales on the Internet.

13 Check and cash in the real world account for
14 about 60, 62 percent of all sales. They're not a very
15 useful method of payment on the Internet.

16 So, Visa gets a substantial portion of the
17 sales on the Internet.

18 It's an important new channel of commerce for
19 us.

20 There are new risks associated with the
21 Internet. There's a perception that the Internet is not
22 a secure place to shop.

23 Ninety-two percent of consumers are concerned
24 about online security. Sixty-three percent of them are
25 very concerned.

1 And the reality is that many online merchants
2 retain card-holder data in a way that's accessible from
3 the Internet.

4 Fraud, as many of you know, is higher on the
5 Internet.

6 So, there are new risks associated with that
7 new channel of commerce, and that created some brand
8 perception problems for Visa. We did not want the
9 perception to be created that Visa was not a secure
10 method of payment.

11 For those reasons, we decided to move ahead
12 with this card-holder information security program.

13 For those of you who want to find out more of
14 the details, there's a packet that I've left at the
15 information table that will give you a lot of the
16 specifications in more detail, but the CISP program
17 starts with 12 basic security requirements.

18 We developed these in conjunction with the
19 security experts and with the merchant community.
20 They've been effective since May of 2001.

21 Let me just give you a flavor of what they are.
22 They're very high-level.

23 Install and maintain working firewalls, keep
24 security patches up to date, protect stored data, encrypt
25 data when you're sending them across public networks, and

1 use and update anti-virus software.

2 We've also developed an audit program to make
3 sure that people who are subject to the CISP program
4 actually are complying with it.

5 We've created a defined and consistent testing
6 procedure for independent validation of these
7 requirements. We have a list of 30 acceptable
8 independent security assessors.

9 For the top hundred merchants that account for
10 about 70 percent of all of Visa's Internet volume and for
11 various service providers that provide service to
12 Internet merchants, there's an annual on-site independent
13 validation that has to take place.

14 For smaller merchants, there's a web-based
15 suite of tools that they can use that will give them an
16 online risk assessment, a self-assessment, and they go
17 through online vulnerability scans.

18 Our enforcement mechanism -- there are
19 penalties for failure to comply.

20 Of course, there's a period of time where we're
21 trying to move merchants into more and more compliance.
22 We provide them with help on remediation efforts, but
23 there are substantial fines that can be pretty dramatic
24 for particular companies in the case of egregious
25 failures to comply. Penalties can include expulsion from

1 the Visa system.

2 The advantages for companies in complying with
3 this -- obviously, failure to provide adequate online
4 security is a business risk. For some, it can be fatal.

5 But beyond that, there's an insurance discount.
6 For those merchants or entities that hold Visa
7 information and that are compliant with CISP, some
8 insurance companies like AIG will provide a discounted
9 premium for cyber-insurance.

10 How are we doing? Virtually all of the top
11 hundred companies are in compliance today. The smaller
12 merchants are coming along well, as well.

13 We're expanding the enforcement to include
14 third-party service providers, processors, web hosting
15 companies, and so on.

16 It's going to take us months to really roll out
17 that new enforcement mechanism, but the end result -- and
18 let me conclude with this -- the end result is that if
19 third parties are not CISP-compliant, they will not be
20 allowed to touch Visa card-holder data. That's going to
21 be the ultimate way this program is going to be put into
22 place.

23 MS. GARRISON: Thank you very much, Mark.

24 I'd like to turn to Fran Maier.

25 Go ahead.

1 MS. MAIER: Thank you, Loretta.

2 Many of you know that TRUSTe is the leading
3 online certification and seal program on the Internet.
4 Our primary purview is over privacy. Of course, privacy
5 does include and require security, and we have some
6 guidelines along those lines, as well.

7 Our consumer position is about giving consumers
8 choice. Our tag line is "Make privacy your choice," and
9 there's two aspects to that. One is actually providing
10 the means for consumers to have choice about the sharing
11 of the personal identity and information, and also
12 telling the consumer that they've got to take an active
13 role in ensuring that they protect their privacy and
14 don't give it away.

15 Our mission, then, is to enable trusting
16 relationships between organizations and individuals based
17 on respect for personal identifying information.

18 We have a set of core privacy principles
19 outlined in our program requirements and in our license
20 agreement. All of the 1,200 to 2,000 companies who join
21 the TRUSTe program have got to abide by and agree to
22 those programs, those principles, and they follow along
23 with the FTC fair information practices.

24 So, for example, under notice, they have to
25 have a privacy statement, and it has to have the TRUSTEE

1 seal on it.

2 They have to say how they collect information,
3 who they share it with, under what circumstances it might
4 be shared.

5 They've got to talk about cookies, beacons, and
6 other kinds of things.

7 They have to say how they will notify users of
8 a change in the privacy policy and a range of other
9 notice requirements.

10 There's choice requirements, and probably the
11 significant point there is that if you're going to have
12 sharing for secondary purposes or with third parties, you
13 have to provide user choice, at least an opt-out.

14 There's access requirements in terms of giving
15 the consumer an opportunity to correct, to change their
16 preferences, for example.

17 There's security requirements, and right now
18 they're fairly basic. We're looking forward to working
19 with industry and some of the players here today to try
20 and provide some guidelines to our licensees about the
21 best security.

22 The simple things that we ask for now are that
23 things like credit cards be under an SSL, that there's
24 password protection for personal identifying information,
25 and so on. We're working now to develop some more robust

1 guidelines in response to what we're seeing all around us
2 in terms of the need for security.

3 In addition, companies have to enter into a
4 license agreement with us, pay us some substantial funds,
5 especially if they're large, agree to undergo monitoring,
6 as well as dispute resolution processes, and agree to the
7 termination requirements that we have.

8 And I'll tell you, we recently figured out
9 about 10 to 15 percent of the companies who apply to
10 TRUSTe and fill out their self-assessment and their
11 license agreement and give us a check -- 10 to 15 percent
12 do not make it through the process. For the most part,
13 it's because we find that they have issues with
14 implementation of the choice requirements or they have
15 issues related to the children's online privacy
16 protection requirements. That's a fairly substantial
17 number. Of course, if they don't come into compliance,
18 they're not available to be renewed, and of course, they
19 don't get the seal.

20 And I just want to speak quickly about how we
21 monitor. There's been a lot of questions about this over
22 the years.

23 First of all, we do have dispute resolution
24 services. This year we're tracking close to 5,000
25 consumer complaints now.

1 Some of those don't have to do with privacy,
2 per se, but they do look to TRUSTe to put in a complaint.

3 We've worked with Watchfire. We're working
4 with Watchfire now.

5 We've scanned about 300 of our sites.

6 We just started this early in the year. We're
7 looking for things like placement of the TRUSTe seal,
8 whether or not they're collecting cookies, if they've
9 changed their privacy statement, all kinds of things that
10 give us and our compliance team a chance to have a second
11 look. We have found that 57 percent of the companies
12 have passed, which obviously means 43 percent have failed
13 at our first review, and some of these are not egregious
14 problems.

15 Some of them are just a matter of simple fixes,
16 and we're getting good response to that, and I think it's
17 good for everybody.

18 We also do a fair bit of seeding, where we join
19 websites, provide information, and we also go to the
20 press and FTC, potentially.

21 And so, again, in the future, we want to work
22 on the security guidelines. We're looking at a lot of
23 activities and best practices around e-mail, and we're
24 looking at more and more technology to apply to this
25 area, because Watchfire has made us much more efficient,

1 much more effective in monitoring. We think that there
2 are other technologies, even some that we've implemented
3 ourselves, that are proving to be both efficient,
4 effective and strong, and that's where we're going.

5 MS. GARRISON: Thank you, Fran.

6 Frank.

7 MR. REEDER: We have been told that we will
8 have a hammer thrown at us if we are not finished in five
9 minutes.

10 MS. GARRISON: Or a water pitcher.

11 MR. REEDER: Or a water pitcher.

12 I guess I would like to start by asking you a
13 question, picking up on something that came up in the
14 previous panel. How many of you, if you're buying
15 technology, are interested in buying technology that has
16 all kinds of back doors and means of access, some of
17 which you don't know about?

18 I don't see any hands. Well, that, in a
19 nutshell, explains why the Center for Internet Security
20 came about. About two-and-a-half years ago -- I guess
21 we're all in the same time-frame -- we convened a bunch
22 of folks to address that set of issues, and out of that
23 came a concept, based on a couple of very simple
24 premises:

25 One, that most of the damage being done,

1 according to the industry watchers, people like Gartner,
2 was being done exploiting vulnerabilities -- technology
3 vendors refer to them as features -- that were known to
4 exist and for which the remedies were widely known.

5 So, the problem here was not that we needed to
6 do new research. The problem here was more of an
7 information dissemination problem.

8 And the problem, really, as we saw it, had two
9 distinct dimensions. One was -- and here I steal the
10 wonderful phrase that Toby Levin taught me some months
11 ago -- we needed vendors to begin to build security into
12 their products, what Toby refers to as baked-in security.
13 But even that isn't going to be sufficient, because most
14 of us operate technology that is from six months to three
15 to four years old, and data actually show that we're
16 keeping it longer than we were even as much as two years
17 ago.

18 So, we have an increasing problem with a large
19 installed base of vulnerable technology.

20 The Center decided to focus on the technical
21 detail. That is not to suggest that policies aren't
22 important. That is not to suggest that user training is
23 not important.

24 But relying on those alone is like telling
25 people that we're delivering them cars with the brakes

1 disabled, but they should drive defensively.

2 Safe computing practices are important but
3 simply not sufficient.

4 The Center's dirty little secret is it is not
5 five lab technicians in Iowa.

6 It is a virtual network of high-end
7 practitioners who start with common knowledge about a
8 particular technology -- we started first with operating
9 systems and have moved now into market-dominant
10 technologies in other sectors.

11 We have benchmarks now for a CISCO router.
12 We're about to release one for Oracle, and for other
13 technologies that are actually out there in use. The
14 Center produces these benchmarks. They're available free
15 of charge on its website.

16 But even more importantly, the Center produces
17 measurement tools, non-intrusive software that actually
18 tells you the extent to which your systems are not
19 hardened, and you can use those on a continuing basis.

20 What's really even more exciting for us, to
21 steal a British phrase, is our measure of success is not
22 product produced.

23 Our measure of success is take-up rate. It's
24 changes in behavior in the real world. And several
25 exciting things have happened, some of which you've heard

1 about here today.

2 Microsoft is beginning to produce a Center
3 benchmark-compliant version of its newer operating
4 systems.

5 Dell -- I'm going to actually take a tape of
6 Craig Lowery's presentation this morning and send it out
7 in lieu of any future public speaking that I do. Dell
8 told you what they were doing. That, for us, is success.

9 Visa links to the Center's benchmarks in its
10 top 12.

11 Our success is not in having consumers or even
12 small businesses know about the Center but, rather, about
13 having technology that is Center benchmark-compliant
14 delivered to them in much the way that the questioner in
15 this morning's session asked about how we do security so
16 that it is transparent to the user, transparent in the
17 sense of passive, doesn't require any active
18 intervention.

19 We also have been working with the major
20 vendors of security software.

21 Again, while we provide the Center's tools on
22 our website free of charge, the typical computer user is
23 not going to search out the Center for Internet Security
24 but may buy tools from vendors like Symantec or Net IQ or
25 BindView, all of which are now building the Center's

1 benchmarks into their security suites.

2 Again, take-up rate is important for us, and
3 that's a way of penetrating the market.

4 The Center's website does tell you far more
5 cogently than I have what we're about and who we are, and
6 it gives you direct access to all the products I've
7 described. The URL is [www.cisecurity](http://www.cisecurity.org) -- no punctuation -
8 - dot-org.

9 MS. GARRISON: Thank you very much, Frank.

10 Laura Berger.

11 MS. BERGER: Good afternoon, everyone.

12 The FTC has been very active in the area of
13 security, and I'm just here to tell you about some of the
14 latest things that we've been working on. One of those
15 is the FTC's Safeguards Rule under Gramm-Leach-Bliley,
16 which took effect on Friday, May 23rd. We've been
17 talking about, as Mark MacCarthy said, fairly high-level
18 security standards. The Safeguards Rule, for those of
19 you who want to see it or have had a chance to look at
20 it, is on our website at FTC.gov and accessible under our
21 brand new privacy initiative website that's newly
22 revamped.

23 It is very high-level. It applies not just to
24 a specific Internet site or a specific type of business
25 context but to a specific type of institution, financial

1 institutions.

2 I won't get into describing exactly every kind
3 of entity that fits under that rubric. People who have
4 had experience dealing with Gramm-Leach-Bliley and the
5 private notices and Privacy Rule are probably fairly
6 familiar with it. But it's a very diverse range of
7 businesses and entities, from very large and
8 sophisticated entities to very small, even sole
9 proprietorships that engage in financial activities.

10 It's not just about addressing Internet
11 business but also about addressing physical storage of
12 records and how employees handle records and what CEO's
13 tell their IT people. It's very broad, very high-level,
14 and it has two parts to it that I'll first just touch on
15 very, very briefly. Then I'll talk briefly about our
16 outreach.

17 The Safeguard's Rule has a reasonableness
18 standard for what the overall security of a financial
19 institution has to accomplish. That standard also
20 embodies required elements, and I won't go over all of
21 those here, because there are five of them, and I think
22 that would exceed the five-minute time limit if I did.

23 But they're high-level. For example, one of
24 the elements is assessing risks to the security of
25 customer information.

1 It's up to companies to really unpack that and
2 figure out what they need to do to assess the risks that
3 face their organization and the customer information
4 they're maintaining.

5 What are we doing to help businesses address
6 this new challenge? A lot right now. We're doing a lot
7 of outreach to try to alert businesses that may not be
8 aware of the new requirements and the way that they apply
9 to their business.

10 One of the things we're doing that you can pass
11 along to people is I will be conducting, along with
12 another staff attorney, Ellen Finn, on June 9th and June
13 23rd, one-hour training sessions.

14 There will be dial-in instructions for
15 participation in those training sessions posted on the
16 FTC's website at least the day before the training
17 sessions, and people can also come here to conference
18 room A in this building on those two days, according to
19 the times posted on the website.

20 That's our most public outreach, but we're also
21 just handling a lot of industry queries and working with
22 a lot of industry groups to help them apply the standard
23 to their particular industry and their types of
24 circumstances.

25 The standard which I mentioned -- referred to

1 as a reasonableness standard -- specifies that what's
2 going to be reasonable will vary according to the size
3 and complexity of the business, the nature and scope of
4 its activities, and the sensitivity of information. A
5 lot of entities have wanted to talk to us about, what do
6 you really mean by that and how does that really work.
7 Of course, we can't give definitive answers, but we've
8 been working hard to talk these things through and help
9 industries get their own analysis onto their websites and
10 into their newsletters, and we'll continue to do that
11 kind of work.

12 With that, I think I will turn this back over
13 for general discussion.

14 MS. GARRISON: Thank you very much, Laura.

15 The frameworks or the approaches that we've
16 just heard very briefly discussed, as you can see, are
17 quite varied.

18 Some of them are mandatory, either by statutory
19 requirement or by membership requirement. Others are
20 voluntary.

21 Some are very high-level. Others are quite
22 technical.

23 Frank, as you think about this, do you find any
24 common features or core principles among these
25 frameworks, and what role does technology play here?

1 MR. REEDER: On the latter question, I have a
2 bias, but I'll save that for last.

3 On the former, it's actually wonderful to hear
4 -- it may be boring for the audience -- a fair amount of
5 harmony around this table.

6 What I've been hearing -- and I think this is a
7 growing chorus -- is we're all trying to identify,
8 through some sort of a process, what I would call
9 consensus best practices.

10 This is less, I would argue, except at the very
11 high-end, a matter of invention as it is a matter of
12 information-sharing.

13 Much of what is going on relies on, to some
14 degree, some fairly detailed technical work.

15 Fran made mention of the fact that they're
16 working on the assurance side.

17 The third trend I see is an increasing reliance
18 -- and this came through in other panels and in Toby's
19 nice phrase, baked-in security -- making security more a
20 part of the product offering.

21 And I think related to that -- and here, I
22 think both TRUSTe and Visa are teaching us about the
23 importance of branding -- ultimately the consumer and the
24 small business, the entities that don't have the capacity
25 to make complex technical judgements, rely on cues in the

1 marketplace that tell them or give them reasonable
2 assurance that a product or a service is, in fact, safe
3 from their perspective. We're starting to see a lot of
4 push in that direction, and ultimately that gets to the
5 point that several of the folks on the panel made.

6 This ultimately has to be market-driven. But
7 it's not going to be market-driven based on individuals
8 looking at the technical pieces of security and privacy
9 but, rather, some more general set of assurance backed up
10 by some of the organizations around this table and,
11 ultimately, the threat of enforcement from the Federal
12 Trade Commission if they make claims that are un-
13 substantiable. In other words, when they see a brand or
14 a mark that says you can expect this level of assurance
15 and this level of protection, indeed that is a valid
16 claim.

17 MS. GARRISON: Larry, what core commonalities
18 do you see from your perspective?

19 MR. CLINTON: I was just thinking about it. I
20 think I see four kinds of commonalities.

21 The four that I see are systemic, cooperative,
22 creative, and ongoing.

23 There seems to be a consensus that technology
24 is not the answer, training is not the answer, insurance
25 is not the answer, international cooperation -- they're

1 all the answer. It has to be a systematized approach.

2 In the same sense, everybody seems to be
3 interested in learning from each other.

4 Oh, that's a good idea Visa has. Nortel is
5 going to try to apply that to its vendors.

6 Oh, that's a good idea AIG has for Visa or ISA,
7 maybe we can bring this into other things.

8 So, there's an attempt to cooperate here which
9 I think is indicative of what the Internet is. It began,
10 really, as a collaborative element.

11 There's creativity going on, the recognition
12 that maybe the old paradigm for regulation, if you will,
13 that was built off the industrial revolution and,
14 frankly, static technologies -- automobiles, for example
15 -- which were good, but you need to have a new paradigm,
16 because the Internet is itself a new thing.

17 Individuals are much more involved. It's
18 ongoing. It's changing. So, we need to be ongoing and
19 changing, also, and that's the last piece, is that it's
20 ongoing.

21 Nobody at the table is saying okay, I got it,
22 now we can move on to Internet 2. Nobody is saying this
23 is what we've done.

24 Everybody's saying, well, this is what we're
25 doing, and we're listening to everybody else, and we're

1 delighted to be here and we have to constantly move
2 forward.

3 So, I think those are four macro things that
4 I'm seeing that I think are all very positive.

5 MS. GARRISON: That's good.

6 Fran, you look at this from a privacy
7 perspective. An awful lot of this conversation is about
8 security. As Frank and Larry and the others here see
9 commonalities on the security side, do you see common or
10 core privacy principles emerging?

11 MS. MAIER: Yes. I think almost everybody has
12 adopted, to some degree or another, the fair information
13 practices, and I think that that framework has been a
14 very powerful framework under which to develop specific
15 privacy policies and programs.

16 Now, there's a lot of debate. There's debate
17 over what is adequate choice. Should it always be opt-in
18 and opt-out, how best to monitor for some of these
19 things, what really is notice, and there's not only the
20 base, there's activities, like the short notice program
21 and the P3P program and others that try to bring more of
22 these notice things up to the forefront.

23 To the point that Larry made, there's a lot of,
24 again, creativity, there's a lot of activity. I know
25 that, for TRUSTe, we're working right now on TRUSTe

1 license agreement 9.0. We've been around about nine
2 years, and that really speaks to the fact that, every
3 year, there are more things that come up, either because
4 consumers are bringing them up or because technology has
5 changed, or some combination.

6 So, for example, in 1997, I don't think we
7 talked about web beacons or perhaps cookies, but clearly,
8 that's been in the license agreement for a long time.

9 I anticipate, in this next agreement, we will
10 talk more about security and e-mail best practices,
11 because right now, for a lot of reasons, those two things
12 are coming up, and I think that evolution talks about
13 that. You can sit here and talk about what is the best
14 practice and where it's going to go. Sometimes you have
15 to start a little lower than maybe you'd like, but over
16 time, you're probably going to get to the place that you
17 really need to get to in terms of consumer protection.
18 That whole idea of the process being ongoing and evolving
19 is an important concept to keep in mind.

20 MS. GARRISON: I think that's true.

21 David, can you tell us or summarize what you
22 think has been the progress in the last year in adopting
23 these various frameworks, and do you see any new
24 frameworks that are under development or that are
25 emerging?

1 MR. FARES: Well, I will begin by expanding
2 upon the progress that I've seen in implementing the OECD
3 security guidelines. By the way, I forgot to mention at
4 the outset that they are voluntary guidelines, but the
5 OECD governments have been working to implement those
6 guidelines. The U.S. Government and the FTC have an
7 active work program in that regard.

8 The OECD will hold a workshop in November, in
9 Oslo, to continue to raise awareness about the need for
10 all participants to promote a culture of security.

11 I already mentioned what the international
12 business community is doing to raise awareness through
13 the efforts of the International Chamber of Commerce and
14 the Business and Industry Advisory Committee, but the
15 OECD guideline process has spurred other inter-
16 governmental organizations to also begin to look at how
17 they can start creating awareness for the need to promote
18 a culture of security.

19 The U.N. General Assembly basically adopted the
20 OECD guidelines in January 2003. The Asia Pacific
21 Economic Cooperation also has a program to promote
22 awareness on cyber-security, and the EU is basically
23 creating an information-sharing mechanism.

24 There are also a whole host of private sector
25 initiatives apart from the OECD guideline process. The

1 International Chamber of Commerce has a cyber-crime unit
2 where it attempts to track security incidents and provide
3 guidance to businesses and law enforcement agencies about
4 trends.

5 There are the ISAC, CERT, SANS. There's a
6 whole host of private sector organizations that are
7 trying to create awareness and information-sharing so
8 that people can better respond to security incidents. As
9 we work toward implementing these frameworks, Loretta,
10 creating awareness is one of the most important things,
11 because there are a whole host of resources that exist.
12 Resources will continue to be developed, but we need to
13 create, in the mind-set of all participants, that they
14 need to engage, that they need to be a part of the
15 solution, and I see a lot of progress in that regard.

16 I think we're in the stage today where we were
17 probably in 1998 in the privacy debate, Fran, when people
18 just started to pay attention to privacy and really put
19 it on the agenda for all participants, whether it is
20 consumers exercising their choice, or whether it is
21 businesses promoting and adopting and posting their
22 privacy policies.

23 We've seen significant progress in the privacy
24 debate with corporate policies being posted online, with
25 organizations like TRUSTe and BBB OnLine. So, I am

1 confident that we're going to continue to make progress,
2 and this awareness-raising exercise is really going to be
3 helpful, and it is going to produce success.

4 MS. GARRISON: Frank, from your perspective?

5 MR. REEDER: Well, I think there's been
6 enormous progress, as I said, in take-up rate, but I'd
7 like to focus on one aspect of your question. That is
8 are new frameworks developing.

9 There are risks in relating cyber-developments
10 to the physical world, but some of those comparisons are
11 valid. I think if we look at other areas of risk or
12 consumer safety, something very exciting has happened in
13 the last year in the cyber-world that happened perhaps 30
14 years ago in the automotive world. That is, rather than
15 viewing security or safety as a cost, as the
16 manufacturers were telling us when they said they
17 couldn't afford to put air bags in cars, we see companies
18 beginning to sell safety and security as a feature,
19 whether it's the branding of a service, like Visa is
20 doing, the TRUSTe mark, or Dell's announcement that you
21 can now buy a securely configured technology at a nominal
22 additional charge. It's a vision I've had for a long
23 time.

24 The Mercedes and the Volvos in the cyber-world
25 are beginning to emerge, and that, in turn, I would

1 argue, just as it did in other areas, will begin to drive
2 practice. The reality is, in the physical world, very
3 often, then regulation follows when the dominant practice
4 becomes something that it is unreasonable to allow others
5 to ignore, rather than using regulation as a way of
6 driving practice.

7 So, I think there has been, in my view, a
8 significant shift in the last 12 months that is very
9 exciting and I think should dramatically accelerate the
10 use of privacy and security technologies.

11 MS. GARRISON: Fran, do you see the same thing
12 from the privacy perspective? David alluded to it a few
13 moments ago, saying that we're now at the stage in
14 security where we were with privacy four years ago.

15 MS. MAIER: You know, I think there is some
16 good news and some not-so-good news.

17 In terms of online privacy, I think the
18 adoption of privacy statements is almost ubiquitous,
19 especially among the larger companies -- you'll see it in
20 probably the top 500 -- and it's almost a requirement.
21 Everybody thinks about having a privacy statement.

22 However, enterprise privacy, software privacy,
23 product-related privacy -- the fair information practice
24 frameworks still work, but implementation of consistency
25 in those areas plus the ability to monitor and audit and

1 so on has not quite emerged yet. I think it will emerge,
2 because I think, actually, the whole effort to get
3 security under control, which is a requirement for
4 privacy, is driving an effort within industry to take a
5 look at their own enterprise data flows, their own
6 enterprise security programs and so on. Once that's in
7 place, then hopefully the question of privacy comes up.

8 It is interesting. I had dinner with somebody
9 last night who was attending the Gartner security
10 conference, which I think is going on here in D.C. this
11 week. The conference didn't have anything on privacy,
12 and it struck all of us -- the couple who I was talking
13 with -- as that's not really up to date. Hopefully
14 they'll change that, because I think the privacy question
15 goes along with the security question.

16 MS. GARRISON: We've heard different terms used
17 -- standards, frameworks, benchmarks.

18 Frank, you've, of course, alluded several times
19 to the adoption of the CIS benchmarks, but can you talk
20 briefly about benchmarks, perhaps what they are, as
21 distinguished from frameworks or standards? Are they
22 helpful? If so, why?

23 MR. REEDER: Well, the penultimate question is
24 easy. Of course they're helpful.

25 We have deliberately adopted the use of the

1 word "benchmark" because of the baggage associated with
2 the use of the word "standards," although I was delighted
3 to hear on a previous panel that some in the industry are
4 increasingly welcoming standards at this point.

5 The benchmarks are, in fact, for the
6 technologies for which we developed them, hardening
7 scripts. They're essentially a set of specifications on
8 how a piece of software or piece of technology ought to
9 be configured so as to eliminate known vulnerabilities.

10 They are highly technical documents. I will
11 confess, as I think a previous panelist did, I cannot
12 read a CIS benchmark and make heads or tails of it except
13 at a fairly conceptual level.

14 The companion piece, of course, is a piece of
15 software that then measures the degree to which the way
16 your software is configured matches those.

17 Are they of value? The simplest metric I have
18 -- and this is an independent measure -- is that out of
19 the box, the technology that is generally delivered to
20 users is highly susceptible to attack, based on studies
21 that NSA and others have done. When the technology is
22 hardened to comply with the Center's benchmarks, for all
23 of the known attacks that we have seen spread around the
24 world in the last 18 months, essentially adoption of the
25 benchmarks would render the user of the benchmark immune

1 from those attacks.

2 But the simple measure of success is does it
3 afford you protection? Absolute protection, certainly
4 not, but for protection against the prevailing threats
5 that we know of, we have a very high degree of assurance
6 based on independent examinations that have been done by
7 others, not just by the Center.

8 MS. GARRISON: Are the benchmarks at level one
9 that the CIS has available -- are they something that
10 just the ordinary consumer can actually do, or do they
11 really require a lot more technical expertise to install?

12 MR. REEDER: I think an individual who fancies
13 him or herself as an expert user could certainly adopt
14 them, but I think we encourage folks to use other
15 products that do that.

16 That's one of the difficulties that we are
17 encountering in getting adoption at the consumer level,
18 and that's why we're placing so much emphasis and we're
19 so delighted to see products being delivered that are
20 already configured. Certainly, the typical system
21 administrator, even if he or she is just a part-time
22 systems administrator in a small enterprise, can
23 implement them.

24 MS. GARRISON: Okay.

25 MR. REEDER: But whether our aging parents or

1 uncles and aunts could, I doubt that they would.

2 MS. GARRISON: I was thinking more of someone
3 who's technically challenged like me.

4 MR. REEDER: We'll send someone over to help
5 you.

6 MS. GARRISON: Thank you.

7 Larry, I'd like to move to a discussion about
8 barriers to businesses in adopting these frameworks. Can
9 you begin the discussion?

10 MR. CLINTON: Yes.

11 I think we've all said there's a lot of
12 progress being made, and that's great. That's a good
13 news, bad news situation.

14 A lot of people say, oh, well, there's a lot of
15 progress being made, it's not so much front page now,
16 well let's move on to other things. That's a problem.
17 Success can sometimes breed over-confidence, and we
18 really have to watch out for that.

19 A second major problem is that, despite the
20 creativity we have spoken about previously, a lot of
21 corporations still view security as a cost center, not an
22 opportunity. There are some exceptions out there, and
23 they should be highlighted, but still, the typical
24 investment in cyber-security is probably not what it
25 should be, particularly the ongoing operation of things.

1 We've already discussed how important that is. It is
2 something that is a problem.

3 People are putting in security systems, but
4 they are not checking up on them, not updating them, not
5 updating their training, not enforcing the procedures
6 that they have.

7 There are also some market-based problems with
8 some competitiveness, notwithstanding a lot of
9 cooperation we're seeing.

10 There are a number of people who are saying
11 that the information sharing that we believe is critical
12 is being impeded because there's a resistance to
13 communicating with your competitor about the problems
14 that you have. A lot of the structures that we have are,
15 frankly, built on the former economic model.

16 We started building ISACS following PDD63. We
17 said okay, let's put all the technology guys together and
18 all the financial services guys together. Financial
19 service has been one of the most successful of these, but
20 still, we've got everybody in the old silos that now we
21 all kind of dismiss as archaic, but those are still the
22 structures that we're working with. We think we probably
23 need some new structures that are across industry,
24 international, more cooperative, and I think we can still
25 do a lot of work developing incentives.

1 We at the Internet Security Alliance, supported
2 the National Strategy to Secure Cyberspace, but I don't
3 think that the plan is perfect.

4 I don't think it speaks adequately to how we're
5 going to have private sector incentives. I don't think
6 it speaks adequately to how we're going to create good
7 data upon which we can build an awful lot of cost-benefit
8 models, et cetera, and these are the things that industry
9 is going to look at.

10 So, I think we've got a ton of work still in
11 front of us. We've got a number of barriers -- cultural,
12 economic, and structural -- that need still to be broken
13 down, but I don't want to diminish the work that's being
14 done.

15 MS. GARRISON: What about the issue of
16 corporate support?

17 I know that we've read some general reports
18 about investments by corporations in their IT programs,
19 and of the IT funds, actually it's a fairly small
20 percentage that, on average, goes to security itself. Is
21 that a pervasive problem?

22 MR. CLINTON: Well, the first principle that we
23 have in our five principles is investing more in
24 security. So, we think that it's certainly a problem.

25 One of the problems with it, which I just

1 alluded to, perhaps not as cleanly as I should have, is
2 that the data for what counts as security investment is
3 pretty loose. Are we counting training in that, or is it
4 just IT technologies, is it software, et cetera? So,
5 it's kind of hard to really tell, even in some of the
6 better studies, what the measurement is.

7 I think we need some better models, starting at
8 the academic level, for that. But to get to your point,
9 yes, investment is still a problem. IT investment is a
10 problem now, and we still see that in the IT sector of
11 the economy, and the security portion of the IT portion
12 is a problem.

13 Another problem is the degree of commitment
14 that senior management has to security -- boards of
15 directors, CEO's, and the like.

16 A lot of this still resides with the CIO, not
17 the CEO and not even the chief security officer. It's
18 the chief information officer.

19 I think we have to broaden the perspective of
20 security so that security becomes part of the operation
21 of the corporation just the same way payroll is an
22 operation of the corporation, management is an operation,
23 human resources.

24 These are things that everybody in the
25 organization needs to be focused on. That's our first

1 best practice, and the first is geared to getting to
2 senior management.

3 I don't think we have crossed that barrier yet.
4 I think there are a lot of people interested. We're
5 working with Technet on that. They're going to have a
6 big program coming out.

7 There are a lot of people working on this, but
8 that's not to say we're there yet.

9 MS. GARRISON: David, do you see any barriers
10 from your perspective?

11 MR. FARES: Yes. I'll just expand a little bit
12 on what Larry said, and then I will move to a different
13 focus. But, as I said, there's been a lot of work on
14 awareness raising. That work on awareness raising is
15 beginning to create an understanding within the business
16 community that security is a business enabler and not a
17 business cost. As we move toward that as a broader
18 understanding within the business community, where I
19 think we're making significant progress, I think one of
20 the major barriers will come down.

21 We've been spending a lot of time talking about
22 IT expenditures, but IT expenditures is only one small
23 element of a security policy, as many others have
24 discussed. Training. Security is a process, and we need
25 to make sure that all participants understand that they

1 have to not just attempt to adopt a quick fix, but they
2 need to implement a security policy that includes
3 reassessment, that includes training, that's ongoing and
4 continuous. Finally, I've alluded to it several times,
5 but I think that many other participants feel as though
6 security is simply a business issue.

7 It's not just a business issue. Everyone has
8 to work to enhance security, whether it is a consumer,
9 government, a network operator. Everyone has to work as
10 an awareness raising organization.

11 I think there needs to just be a broader
12 understanding, consistent with the OECD guidelines, that
13 everyone has a role to play, and it's not just one
14 participant's responsibility. Once we're successful in
15 that, I think we will also overcome a lot of the
16 barriers.

17 MS. GARRISON: Laura, you work with a whole
18 industry that, in fact, is under a regulatory regime to
19 implement security measures. What is your experience as
20 to the barriers that may be impeding the adoption of
21 frameworks in this area?

22 MS. LUNDIN: Well, I have a couple of comments.

23 First of all, I echo a lot of what has been
24 said amongst the panelists about the necessary change in
25 culture needed on behalf of the product manufacturers and

1 the service providers to actually build in that security
2 and the need to value security as much as the business
3 functionality that comes in a product or the processing
4 capabilities on behalf of a service provider.

5 So, I think the need to value security is still
6 a primary impediment to adoption of some of these
7 frameworks.

8 On the other hand, it's also very difficult, I
9 guess taking the stance from an organization that tries
10 to create these frameworks, to strike a balance. You try
11 and be high-level enough so that it is a flexible
12 framework. You can't be too prescriptive within the
13 context of risk management.

14 Various situations are going to require
15 different types and levels of risk management. So, you
16 have to account for that, and you have to maintain that
17 flexibility within your frameworks.

18 On the other hand, if you get to too high a
19 level, people don't have that understanding, and there's
20 certainly a learning curve.

21 A lot of the regulatory regime that's come down
22 on behalf of the financial regulators was very broad-
23 brush. It's taken several rounds of examinations for
24 these organizations to really figure out the intent and
25 the level to which the regulations come down and then, in

1 turn, how they pass that along to their service providers
2 or their product manufacturers.

3 So, again, trying to strike that balance is a
4 real challenge.

5 MS. GARRISON: Frank, what about small
6 businesses? Are there special challenges here?

7 MR. REEDER: Absolutely. I think one needs to
8 make an important distinction between large enterprises
9 and small enterprises, which in many ways behave more
10 like individual consumers, at least in the information
11 technology marketplace, where it's not reasonable to
12 expect that there is technical critical mass within the
13 organization.

14 It's probably the youngest person in the
15 organization who gets you out of trouble when something
16 goes wrong, but there again, the small business is more
17 reliant on buying safer products.

18 Certainly, education can help with respect to
19 management practices, but there's one other actor we
20 haven't talked about in this conversation, and that would
21 be the service provider, the VPN provider or ISP. There,
22 again, we need to look to that sector to build more
23 security and privacy technology into the offerings that
24 they provide, simply because it's not reasonable to
25 expect individual consumers or small businesses, apart

1 from the cost question, simply to spend the energy. It's
2 not a question of being smart enough but of being able to
3 spend the energy to make the technical judgements that
4 they have to make.

5 MS. GARRISON: Laura Berger, I know it's a
6 little early to do an evaluation, because the Safeguards
7 Rule just went into effect, but are there special
8 barriers or issues that you've become aware of in this
9 short period of time?

10 MS. BERGER: So far, some of the panelists have
11 addressed these. My evidence is very impressionistic,
12 but it is a cultural issue, and change is kind of slow.

13 We've had meetings with lots of industry
14 representatives, and without picking on anyone by
15 identifying them, I've met with large groups where their
16 message has been we just don't think of ourselves this
17 way, and I think that it's going to take time before
18 people start to think of themselves this way.

19 And to echo what Laura Lundin was saying, as
20 well, the standards that the agencies put forward are
21 fairly general. I think it takes time to translate those
22 into specific practices and to figure out what works over
23 time. Building on what Frank was saying as to service
24 providers, there is a requirement in the Safeguards Rule
25 -- and this is just one example of one of the many

1 changes that's got to come about and really get
2 streamlined through practice.

3 There's a requirement that financial
4 institutions oversee their service providers, including
5 by entering into contracts with them. At this point, I
6 think one of the barriers that I'm seeing is there's not
7 yet a streamlined process for how that's supposed to
8 happen. We've been concerned about this all along and
9 really tried to anticipate, but we have, for example,
10 small businesses saying, well, what kind of agreement
11 should I enter into with my data processor? Some of this
12 eventually is going to have to come from the service
13 providers.

14 They're going to have to start off with built-
15 in security guarantees to their financial institutions so
16 that these things won't be negotiated in an inefficient
17 way.

18 I already said that we're trying to get at this
19 through education and through outreach to the industry.
20 We're also working to educate consumers and raise
21 awareness and demand to help bring about the cultural
22 change that will make businesses see it in their interest
23 to provide security.

24 One of the nice publications available on the
25 table -- and I can honestly say one of the few with color

1 illustrations that's available to you, is our Internet
2 security initiative publication featuring Dewey the
3 turtle. It's our big consumer ed piece talking about
4 what consumers need to do to stay safe online. I point
5 smaller businesses to it at times to say this is what's
6 appropriate for you, because, as Frank was saying, you're
7 a lot more like an individual consumer. The rule is
8 adaptable to your situation, and you can look at these
9 kinds of measures to address your needs.

10 So, I'm seeing a lot of need to synthesize
11 these broad standards into streamlined practices that
12 businesses can keep a handle on.

13 MS. GARRISON: So, the common consensus here is
14 that we need to figure out ways to translate these
15 principles into practices, and we've already started
16 talking about some incentives.

17 I know, Larry, you've already mentioned some.
18 Do you want to quickly summarize some of the incentives
19 that you see in the marketplace or elsewhere to adopt
20 these frameworks?

21 MR. CLINTON: Well, I think we've already
22 probably hit on most of them.

23 We try to lower business costs.

24 So, if you'll adopt best practices, you'll get
25 less insurance cost.

1 If you do training, we'll get you discounts.

2 We're very supportive of the Visa program, and
3 we try to encourage that sort of thing with our other
4 member companies.

5 I think one of the things that's been alluded
6 to here is that those corporations with -- I use this
7 term in quotes, an advisory -- "market power" can use
8 that ability to improve security in their own enlightened
9 self-interest.

10 While I'm sure that, in Visa's case, Nortel's
11 case, and a bunch of other cases, it was done out of an
12 awareness of security and the public good, I'm sure there
13 was also a recognition that an insecure network is
14 economically threatening to the corporation.

15 I think that a whole lot of corporations still
16 need to embrace that and insist that, if you are going to
17 be our vendor, if you are going to be our supplier, if
18 you are going to be our customer, we need for you to
19 adopt this system of security, because the Internet is an
20 interwoven network of networks, as everybody in this room
21 knows, and a threat to one is a threat to all.

22 I think there's a lot more creativity that we
23 think can happen, but as I say, we really need to work on
24 a new paradigm.

25 The old regulatory paradigm probably doesn't

1 fit this one.

2 We need to be a little more creative. I think
3 there's a lot of creative ideas out there, but I'm sure
4 we haven't exhausted the market on them.

5 MS. GARRISON: This, I think, plays into Mark
6 and what you've been doing in your CISP principles,
7 because from what I have heard it sounds as though
8 branding and consumer confidence were drivers in adoption
9 here. Do you want to speak a little bit about that?

10 MR. MacCARTHY: I think the major points have
11 already been made.

12 You know, security is a large topic that
13 crosses a lot of different industries. So, I can only
14 really speak about the incentives that Visa might have
15 had for doing what it did, and it's only in the area of
16 keeping card-holder information safe and secure. But
17 there may be ways in which you could generalize our
18 experience to other companies, as well.

19 When we looked at the Internet several years
20 ago, we saw some concerns about the security of online
21 shopping.

22 We saw security as a major threat to the
23 development to that channel of commerce, and we saw it as
24 a potential brand problem for Visa, being associated with
25 an insecure method of payment. For all those reasons, we

1 decided to step forward and make our program not just a
2 set of "we hope you do this kind of practices" but
3 requirements for actually taking a Visa card.

4 At the time that this was first being
5 introduced, there were a large number of Internet hacking
6 incidents, there was large publicity about them, and so,
7 we got a pretty receptive audience initially, because
8 people realized that what we were putting forward were
9 ways in which they could then turn around and protect
10 themselves against a business threatening possibility.

11 The biggest troubles we ran into were when we
12 insisted on audits, when it wasn't just us saying we want
13 you to prove that you're doing the right sort of thing
14 not to Visa but to independent outside security
15 assessors.

16 A lot of companies would say, well, we do it
17 ourselves, we already know how to do this, why do we have
18 to go out and prove it with an external assessment? We
19 had a lot of discussions in that area, and I think we've
20 gotten over that hump.

21 A lot of people realize that, in this
22 circumstance, you can't take people's words for it when
23 they're repositories of very, very large amounts of card-
24 holder information.

25 So, that's the way our program has developed so

1 far.

2 MS. GARRISON: Fran, we've heard Frank speak
3 earlier about the shift in thinking from the product
4 developers who are now seeing security as a feature
5 rather than a cost.

6 Do you have any experience on return on
7 investment, because that clearly seems to be an important
8 driver here for corporations.

9 MS. MAIER: We're always looking for ways to
10 help a company not just talk the talk but to walk the
11 walk and really have the real commitment to privacy.
12 What we have found, while we might be very successful
13 with the chief privacy officer or the risk manager or the
14 general counsel, legal counsel, and they believe that
15 having sound privacy practices and the seal program makes
16 sense, it's the marketing people and the people who are
17 driving the revenue that we want to try and convince.

18 And we're undergoing a lot of different studies
19 to try and figure out the pay-back for privacy or for the
20 seal program. I'll talk about one I think you'll be
21 hearing more about in the future, about a little company
22 called Big Dates.

23 They're not a dating service. They do
24 anniversary-related kinds of things -- birthday party,
25 reminder service -- and they sent out, randomly, 80,000

1 e-mails. 50 percent of them had the TRUSTe seal at the
2 bottom saying we protect your privacy. They had the seal
3 linked to the privacy statement.

4 Well, the company saw a 40-percent increase in
5 the join rate and the click-through rate, and that's
6 pretty remarkable.

7 Now, that's not a well-known brand, but I think
8 it shows that the consumer recognizes TRUSTe. Overall,
9 we're talking to a number of companies who are joining
10 our program to do testing. What's important about that
11 is that it's going to put even more emphasis on having
12 the right programs and the right enforcement and the
13 right strength behind the seal, because if it means that
14 much, then it really has to deliver both for the consumer
15 as well as for the organization.

16 MS. GARRISON: Mark, you mentioned earlier
17 about accountability. That also seems to be a common
18 theme that's popping up from various panelists.

19 Can you talk more specifically about how
20 companies in the Visa system are held accountable for
21 complying with the CISP principles?

22 MR. MacCARTHY: It's indirect. Visa is an
23 association of financial institutions. So, we have no
24 direct relationship with Internet merchants or processors
25 or web hosting companies.

1 So, the mechanism we use to make sure that
2 these requirements move out into the marketplace is
3 through requirements we put on the banks that work with
4 the Internet merchants.

5 If there's a problem with a particular merchant
6 where they haven't fulfilled the requirements of the CISP
7 program, then ultimately a fine goes on to the bank that
8 works with that particular merchant, and that merchant
9 bank then moves that penalty on to the merchant.

10 Ultimately, the way of enforcing the mechanism
11 is through continued membership in the Visa system. It's
12 clearly possible to make sure that merchants aren't
13 permitted to use Visa cards. We enforce that, as I say,
14 through the system of financial institutions that are
15 part of the Visa system.

16 MS. GARRISON: And have you already taken
17 action, either fines or other types of action?

18 MR. MacCARTHY: We've had a major processor who
19 did not live up to the responsibilities that it had under
20 the system. We fined them \$500,000. They're under
21 suspension right now.

22 MS. GARRISON: That must have served as a wake-
23 up call to everyone else who participates, too.

24 MR. MacCARTHY: It catches people attention at
25 high levels.

1 MS. GARRISON: Yes, I should think so.

2 Frank, do you have anything more to add about
3 accountability? How do we get there?

4 MR. REEDER: Accountability is tough, and I
5 guess all accountability ultimately occurs in the
6 marketplace. I would also argue for it -- and here I'm
7 echoing what Mark has already said -- through independent
8 audit. We, again, also haven't talked about the audit
9 community, but they're a part of the assurance network
10 that ultimately goes to fundamental questions that are
11 being addressed by things like Sarbanes-Oxley.

12 I would like to be mildly contrary on one small
13 point.

14 MS. GARRISON: You have the privilege to do so.

15 MR. REEDER: Thank you. Lest this sound like a
16 chorus.

17 It's probably true that we're not spending
18 enough on security, but I think, as Larry said, quite
19 correctly, we haven't the vaguest idea, because we don't
20 know what we're measuring.

21 Starting with the fact that developing good
22 software is essential to good security and the ability to
23 provide the privacy assurances. I'm sure nobody is
24 counting that in their security budget, so I simply don't
25 know how one measures that. Probably the deltas are

1 meaningful assuming that people are consistently
2 measuring. At least we can see change from year to year,
3 even if the base number is mush.

4 But I think it's even more important that the
5 money we're spending, we're spending badly. Again, what
6 you are hearing from this panel and I think the message
7 that needs to go out is the way you start a good security
8 program is not to hire a very expensive consultant, with
9 apologies to the very expensive consultants who may be in
10 this room, to do a zero based risk assessment when we
11 already know that there is a set of baseline practices
12 that you ought to be implementing and auditing yourself
13 against and then looking at whether there's differential
14 risk, whether you are unique within your industry or
15 sector and ought to be doing something beyond the
16 baseline.

17 But we've got it exactly wrong. There are a
18 lot of people making very good money -- unfortunately,
19 I'm not among them -- who are selling the same snake oil
20 over and over again, rather than promoting the adoption
21 of knowledge that is already in existence and that is
22 available relatively inexpensively.

23 Most of the things we're talking about here are
24 not expensive, and so, I would argue that the problem is
25 not money. It may well be how it's being spent.

1 MS. GARRISON: On that high note, we'll open it
2 up to questions.

3 Is the microphone working? It is now. Okay.
4 Brian.

5 QUESTION: Brian Treddick from Ernst & Young.

6 I just wanted to call to the attention of the
7 Commission and the participants in the workshop the
8 American Institute of Certified Public Accountants and
9 the Canadian Institute of Chartered Accountants released
10 yesterday another framework, enterprise privacy
11 framework, after about a year-and-a-half of development,
12 friends and family review period over the winter.

13 It's open for a three-month cycle of review --
14 June, July, August. We're hoping to get comments from
15 everyone to make it stand out as what we'd consider in
16 the industry as established criteria.

17 The goal is to allow a company to assess and
18 align its practices around the handling of personal
19 information or allow a public accountant, a CPA, an
20 auditing firm, to come in and audit some set of systems
21 and processes around it.

22 So, it's available for download, and if you
23 have any questions, I'll be around for the rest of the
24 afternoon. I can answer those then.

25 MS. GARRISON: Thank you very much, Brian.

1 Yes. Go ahead and state your name, please.

2 QUESTION: Thanks. My name is Allen Wilcox. I
3 work for the Vanguard Group.

4 The question I have for you -- despite my
5 profession's dominant certification and professional
6 organization, it's not just information systems security,
7 it's information security, whether it's in a Rolodex, a
8 baggie, my head, or a computer.

9 How are any of these frameworks addressing non-
10 technical information security rather than just the
11 places where things are stored and patched and systems
12 are maintained?

13 What about the actual information -- because
14 systems are just capital assets. Is the information
15 itself being addressed within these frameworks?

16 MS. GARRISON: Larry?

17 MR. CLINTON: We agree with what you say. We
18 have copies of our best practices, and we agree
19 completely with that sense.

20 The first thing that you'll see in our best
21 practices is that you need to have a policy for
22 information security, not just Internet security, and in
23 fact, it includes physical security. Although, frankly,
24 a lot of the same procedures still apply -- you need to
25 have a policy, you need to enforce the policy, you need

1 to assess the policy on an ongoing basis, you need
2 evaluation -- these are all spelled out in our best
3 practices comment. At this very moment I'm aggressively
4 trying to get people to embrace these.

5 I completely agree with Frank's comment that
6 there's a lot of stuff that's pretty good that's already
7 out there. What we'd like to see is us moving away from,
8 hey, let's write something new. I'm sure there's lots of
9 new stuff that needs to be written, but let's implement
10 what we've already got, and let's then evaluate that
11 systematically. Then let's rewrite it and move on. I'm
12 sure that's necessary.

13 MS. GARRISON: Laura, did you want to add
14 anything to that?

15 MS. BERGER: Sure.

16 In my opening remarks, I mentioned that the
17 context of our rule takes into account all aspects of how
18 an organization deals with information and not just
19 transactions on the Internet, and that's really embedded
20 in the requirements of our rule. Just to give one
21 example.

22 In assessing its risks, a company has to take
23 into account all areas of its operation, and we spelled
24 out three particularly essential ones that are required.
25 One of those is employee management and training, and

1 that's been one of my favorite ones to talk to people
2 about when they call with really difficult questions
3 about how to implement some online protection and they're
4 just really grappling with it.

5 I just say, well, have you trained your
6 employees yet, and typically, the answer is, well, no,
7 but we haven't really drawn up our employee training plan
8 yet. So, we tried to build that into our rule.

9 MS. GARRISON: Frank?

10 MR. REEDER: Yes.

11 If I may set aside my Center for Internet
12 Security role for the moment and step back into other
13 personas, the whole privacy debate as we know it probably
14 was prompted by a book most of us read for different
15 reasons by George Orwell and the revelations in the '60s
16 and '70s that technology was being used in ways that we
17 didn't anticipate. But if you look at the laws and
18 principles underlying it, there's nothing about
19 technology in the Code of Fair Information Practices or,
20 for that matter, in the Federal Privacy Act of 1974.

21 It's about information practices, and your
22 question is exactly right. All of the prescriptions that
23 we've talked about have nothing to do with the manner in
24 which the information is stored and processed and
25 everything to do with the processes and content.

1 Your question is a very healthy reminder that a
2 robust privacy program and an assurance program that
3 supports that cannot stop at the boundaries of the
4 technology system.

5 MS. GARRISON: With that, we're concluding this
6 panel.

7 Please be back at 3:15 for panel four, and I
8 would like to thank very much each and every panelist
9 here this afternoon for their contribution to this
10 discussion.

11 Thank you.

12 (Applause.)

13 (A brief recess was taken.)

14 **PANEL 4:** Designing Technologies to Protect Consumer
15 Information

16 MR. SILVER: Welcome back, everyone, to this
17 session, which is not only the final panel of today but
18 the final panel of this pair of workshops which began in
19 May.

20 This panel will consider how to design
21 technologies to protect consumer information.

22 Are the microphones working? All right.

23 And to that end, we've gathered an impressive
24 group of engineers and policy experts.

25 First, we have Edward Felten from Princeton