Trustworthy Computing: Privacy, Security & Usability

HIPAA – Summit West II Coordinating Security & Privacy

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What is Privacy?

It's about me Who I am, where I am, what I do It's about being in control I control who gets access Let me be the judge about use It's about being left alone Don't bug me It's about respect Like I said, don't bug me

What is the Value of My Information?

For me:

Defines WHO I am as an individual

Defines WHAT I do and WANT

Defines WHERE I am and WHEN

For others:

- In emergencies, it's critical
- In communities, it's important
- In business, it's convenient
- In some cases, I'd rather be invisible

Most importantly – it's empowering!

When Information is Critical

Don't expect any privacy

- Emergencies like 911
- Identify-based services, like passports
- Use of others' resources as employees
- Legal actions like taxes and divorce
- Law enforcement like stop signs

When Information is Important

Financial dealings like bank and credit accounts
Job applications like resumes and references
Airline travel
Medical services
Contracted services
Government protections

When Information is Convenient

Business transactions like catalog purchases
 Local/national directories like phone books and church directories
 Retail sales like tailored clothing
 Personal preferences like nutritional requirements

This is Easy, Right?

Nope – it's way complicated
Privacy requires Security, but not too much

Security doesn't require privacy at all

Gov'ts compel information ...

...and promises to reveal it, too!

No one really can agree on what-privacy means

No one-size-fits-all formula

How Hard Could It Be?

- Do you want your government to know about you?
 - To tax me to the max? *Rahern @*!
 - Public services? OK!
 - Protective services? Darned right!

Keep this Stuff Secure!

Different kinds of data require different protections

- Name & address some, but not a lot
- Shopping behaviors a bit more
- Finances a lot
- Health quite a lot
- Political, sexual, racial lots & lots
- Configuring security can be quite complicated
- Data types and potentials uses (and abuses) are the key

Oh, yeah, Make it Easy for Me to Use, Too!

- High security means high difficulty
 That's the point security makes it hard to get to the data
- If it's hard for someone else to get to my data, then it's hard for me to get to it, too
- Base Points:
 - Recognition is not enough
 - Authentication is often required
 - Authorization has to be based on verified identity

This Really is Hard

Privacy is very personal

- Who can decide what is the right balance for everyone?
- Governments have to be intrusive, and provide open access, too
 - Really hard balance, particularly for the judiciary
- Business cannot succeed without customer trust
 - More clear today then ever before

The Elements of Trust

Data Protection Privacy Security Control of Information Control of Devices ■ Choice re: Content Goal: empower people

3/14/02

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A Trust Taxonomy

Goals

Availability At advertised levels

Suitability Features fit function

Integrity Against data loss or alteration

Privacy Use & Access authorized by end-user

Reputation System and provider brand

Means

Security Resists unauthorized access

Quality Performance criteria

Dev Practices Methods, philosophy

Operations Guidelines and benchmarks

Business Practices Business model

Policies Laws, regulations, standards, norms

Execution

Intent

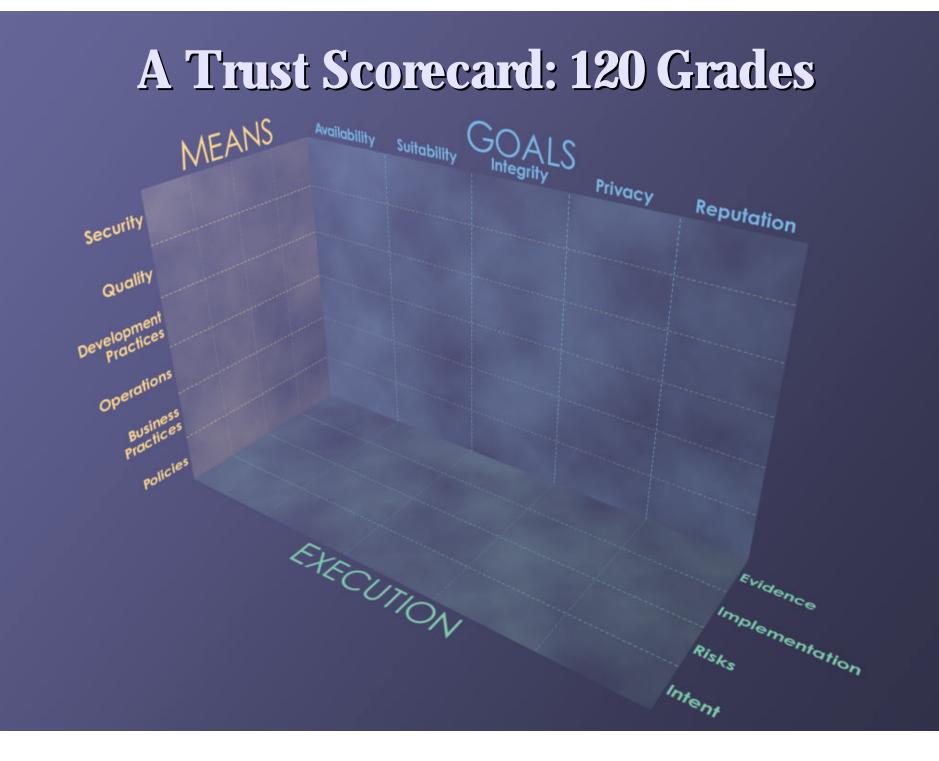
Management assertions

Risks

What undermines intent, causes liability

Implementation Steps to deliver intent

Evidence Audit mechanisms





TCI Process for Privacy

Privacy Directive ■ 100+ page policy documentation Privacy Checklist Training module required for all staff Privacy Health Index Assessment tool required for targeted product, systems, and services managers Scorecard – you can't manage what you can't measure

Thank You!

3/14/02