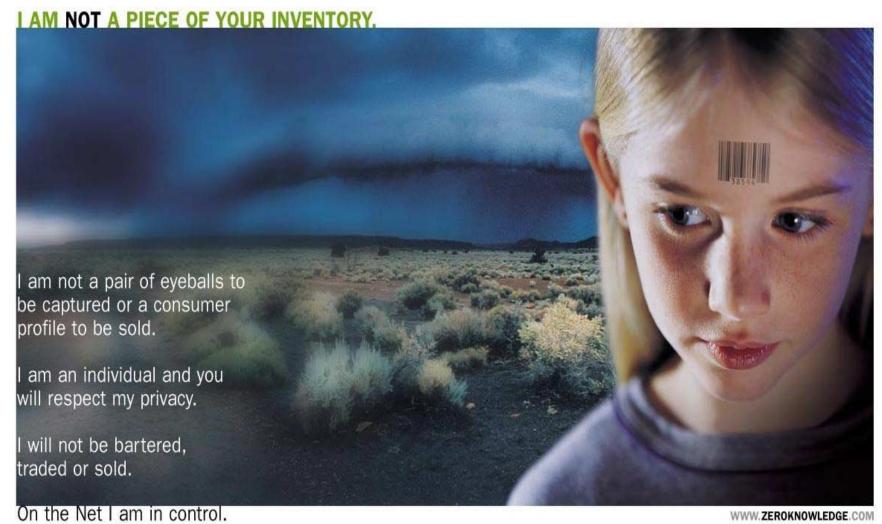
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zerøknowledge

Internet privacy solutions



WWW.ZEROKNOWLEDGE.COM

Outline of talk

Ecommerce and Econsumer

Pros & Cons

Global Market Place

Global opportunity for good and evil

Concerns

Privacy

Protection

Dispute Resolution:

Conclusions

E-commerce: commerce activity carried over network using computing devices

Facilitated by:

Advances in database and info processing

Open network: Internet

Web: GUI for the masses

Reduction of transmission costs has made distance irrelevant!

Activities: Communicating with:

Customers Suppliers

Selling Buying Invoicing Payment

Reach: Global for even the smallest enterprise

Privacy: the right to be left alone right to control personal information

if when and how information is to be used

Confidentiality

Informational Self Determination vs. *laissez faire*

Minimum elements for fair practice:

notice choice security access

Market for Personal Information

Harvesting from browsing of users on the Web Mining information and distilling for various marketing Bulk e-mailing

Personal Information has become a commodity.

Recourse: counter measures legislature

Principles for privacy

Accountability: organization is accountable

Identifying Purposes: why is the information being collected

Consent: individual's is aware and has consented

Limiting Collection: only what is necessary

Limiting Use, Disclosure and Retention:

Accuracy: accurate, complete and up-to-date

Safeguard: security of information

Openness: policies and practice must be accessible

Individual Access: upon request

Challenging Compliance: recourse if not compliant

E-Profiling:

Tracking users over multiple "partner Web sites"

Cookie: a small amount of information written to a user's hard disk when she visit the site offering cookies unique cookie ID site name (domain) page visited date/time Other information linked to a cookie could be: user name password information from form filled by user (account or credit card numbers)

Only the site that wrote a cookie can access it!

How the Cookie crumbles!

Cookies were designed to be of benefit to the user: time saving avoid repetitive data entry

Web pages have become cluttered with targeted ad frames and panes

Cookies play a large part in this targeting racket used to generate user's browsing habits and hence profile

Such tailoring requires accurate profiling of users tailor ads to the user increased revenues for such profiling companies portals sell more ads for a variety of profiles charge higher fees per pair of eyeballs constant pressure to increase the number of visitors and length of visit cluttered Web pages annoying (JunkBusters or Lynx!)

More Snooping points:

REMOTE_IDENT is used to disclose identity REMOTE_HOST is used to disclose the domain

Another address added to junkmail list.

Profiles are not only used by the Web server company and sold and resold to other commercial interests

Search engine companies have an intention of creating a tracking system to create highly detailed profiles of user's search patterns.

Such profiles when sold would expose the individual to possible harm

Is your identity being revealed to web servers?

In this case the "REMOTE_IDENT" variable was bcdesai.

The "REMOTE_HOST" variable was ideas.concordia.ca.

Most browsers reveal your identity and address and other details about your system!

Is your identity being revealed to web servers?

In this case the "REMOTE_IDENT" variable was 101.

The "REMOTE_HOST" variable was ideas.concordia.ca.

Running identd with –n option offers only user number

Your IP address: 132.205.50.31

Your computer name (if it has one): ideas.Concordia.CA

Proxy server can't hide the host address

Your IP address: 216.34.244.46

Your computer name (if it has one): draco.anonymizer.com

Using anonymizer to hide your host and details about your system! But anonymizer knows!

Fighting Cookies:

Disable cookies: annoying messages about cookies Send cookie file to /dev/null or write protect the file Use proxy such as Junkbuster, Use agents such as Anonimizer, Freedom Use a browser that don't accept cookies

Lose some of the advantages of cookies Many of the services would become unusable

Alternate Dispute Resolution

```
Dispute resolution across national boundaries:
     cost of legal action
     jurisdiction mis-match
ADR:
           electronic forum
           speedy resolution
           full airing
           - consideration of issues not-relevant in a court
           creative resolution
           fairness
Must provide choice to the consumer
Must not prevent further legal action
Disparity between parties: culture, language etc.
Cost may be high for consumer(~$100/hour)
```

Enforcement

ADR standards must be set by legislation and be uniform

ADR system be accessible and convenient type of disputes, procedures, costs, enforceability etc.

Voluntary option for consumer:

ecommerce normally requires pre-payment

ADR system must be free or low-cost

decision in favour of consumer should be binding consumers be refunded if ruling is in their favour

System must be independent, non-profit third party and have input from consumer organization

Resolution of complains should be expeditious

Legal rights and other recourses must not be blocked consumer's local court

Decisions should be public and publicized

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Econsumer Protection

Consumer Protection Acts enacted for a province or state are not enforceable when goods are purchased from another nation.

No common minimum standard for fair business exist, truth in advertising and honesty, for disclosure of all relevant information

Full explanation of the terms of the ecommerce transaction Clear procedure for redress.

Any standard in the sellers legislature may not provide same level of protection as the local one

Safe Harbour Proposal

- incompatible privacy philosophies Legal right against self-regulation

Developed to foster, promote and develop international commerce vs.

Human rights dimension of privacy protection

What about others?

EU citizen enjoy greater privacy protection than US citizens

Does not establish fair information practice

Notice may be given as soon as is practicable

not before collection of data is made

Opt-out instead of opt-in

Lack of purpose specification and use limitation

Limitation to access for individual but in favour of business

Self-Policing

No protection from refusal of service if data not provided

Lack of enforcement and accountability through auditing

Ecommerce and Children Data must not be collected from children

Privacy Legislature

Protects personal information:

race, ethnic origin, colour, age, marital status, religion, education medical, criminal, employment of financial history address, phone number, other identifications blood type, fingerprint, tissue or biological sample, DNA, views or personal opinions

Consent required for collection

to be only used for the purposes for which information is collected

Privacy Commissioner:

to investigate complains and take legal actions

Example: Bill C6 of Canada

Principles to econsume:

market forces don't provide privacy protection know the vendor details of the product/service being purchased contract terms and conditions applicable laws and jurisdiction quality assurance certificate complaint handling process of vendor how to cancel, when (3-5 days for off-line) secure transaction system being used Will personal information protected? International purchasing is a risk

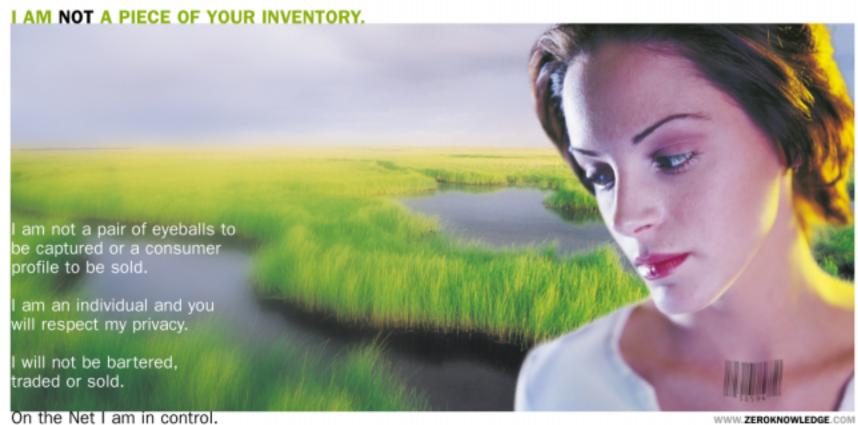
-meet local standards

-willing to lose the money

Scams:

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Econsumer

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End of talk: Thank you

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