Reading Discussion

Blown to Bits Chapter 2

Naked in the Sunlight Privacy Lost, Privacy Abandoned

Notes for CSC 100 - The Beauty and Joy of Computing The University of North Carolina at Greensboro

Question 1
Describe the heart of the chapter in two (or three) words

Question 2...

The authors' analogy was to "footprints" and "fingerprints"...

What's the difference?

Can you give a few examples of each?

Digital Tracks Everywhere... examples

Footprints ("data trails we leave intentionally")

- Pictures posted to social networking web sites
- Tax records, phone bills, financial transactions, ...
- · Customer loyalty cards
- Car tracking GPS in rental cars, data recorders in all cars, toll speed-pass

Fingerprints ("data trails of which we are unaware or unconscious")

- Metadata in pictures (GPS, camera serial number, etc.)
- Printouts from color laser printers
 - http://33bits.org/2011/10/18/printer-dotspervasive-tracking-and-the-transparent-society/
- Web browsing or search history
- . An additional one: POSTNET printed on US mail for routing

Views toward privacy

Scott McNealy, (CEO of Sun at the time):
"You have zero privacy anyway. Get over it."

Are there generational differences?

Does that come from age, or culture change?

Privacy drastically different from 50 years ago. How did this happen?

How do you boil a frog?

(This anecdote apparently isn't true... just so you know)



What privacy do you give up in "I Agree" buttons?

What about at UNCG? By using UNCG resources (Blackboard, E-mail, etc.):

No University employee, student or any other user shall have any expectation of privacy in the material or information sent or received using any portion of the University information system infrastructure, information systems, or systems containing University information assets. For security, legal, investigative, policy compliance, quality of service, and infrastructure maintenance purposes, authorized employees within ITS, and those University employees outside ITS with responsibilities necessitating access, may monitor information system and infrastructure activity and/or content, in the course of discharging their duties.

<u>Source</u>: UNCG Policy on "Acceptable Use of Computing and Electronic Resources" http://policy.uncg.edu/acceptable_use/

From student comments

Several students (> 5) were surprised about EDRs in cars

And a few had gotten tickets from photos!

Interest in RFID (on following slides)

Several mentions of NSA

- Classified documents revealed by Snowden
- Show massive data collection effort
- Where to store all this data?
- See the new \$2 billion NSA Utah data center!
- Estimated storage: > 1 exabyte (1,000,000 terabytes)
 Sucking up data for later analysis
- Are they "collecting" data? (of course...)



Several students interested in RFID

Electronic tags that can easily be made unique (unique serial numbers)

o Great for tracking!





Extremely low cost

Passive tags don't require a battery





Shipping containers, library books, individual products,

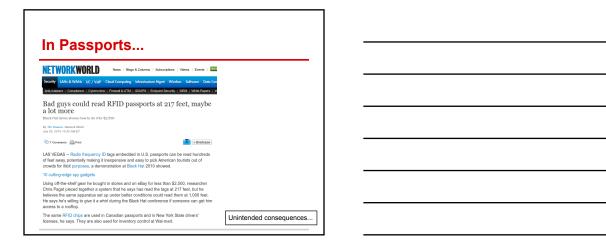
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In clothing tags... Text size: T T T Benetton to Tag 15 Million Items Supply Chain Asset Tracking The Italian retailer plans to put RFID labels on a complete line of clothes and track items from manufacturing plants to the point of sale. March 12, 2003 - Last morth, we asked RFID. The Next Fashion From Italy? We got the answer yesterday, when Philips Semiconductors revealed that Berestich, the clothing refailer based in Traviso, Italy, would be tagging a complete line of its clothes at more than 5,000 stores globally. More Topics ARTICLE TOOLS News Stories Editor's Notes Expert Views Philips says it will ship 15 million chips this year for use in labels that will be jut on the dothes when they are manufactured. That makes this one of the larges RFO implementations ever by any compare. The Gliette Co. recently ordered 500 million RFO lags, but those will be delivered over three years, and the company has only just begun to laite delivery. Greate PDF Ask the Experts Get Started Free Case Studies

Clothes produced under Benetion's core brand Sisley will be fitted with RFID labels. The tagged items will be placed in shipping boxes, which will also be tagged. Benetion will be able to track clothes from the time they are produced until the time they are sold. The chips will ternain active even after the products are sold, so they can be used to track returns as well.

Source: "RFID Journal", March 12, 2003

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In School IDs Student Suspended for Refusing to Wear RFID Chip Returns to School STUDENT SEALON STUDENT SE