INTUG

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privacy and identity in a (more) mobile world

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INTUG contents

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INTUG what is INTUG?

- members
 - national associations
 - corporations
 - individuals
- activities
 - ITU and WTO
 - OECD
 - APEC TEL, CITEL and EU



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INTUG our aims

- real and effective competition
- genuine choice for users
- lower prices
- higher quality
- more innovative services
- constructive co-operation with
 - international bodies
 - governments
 - regulators



INTUG priorities

- 1. open access to global mobile networks
- 2. regulatory best practice
- 3. liberalization
- 4. leased lines
- 5. IP telephony
- 6. digital divide
- 7. universal access
- 8. numbering



INTUG principles

- economic growth:
 - openings for innovation
 - removal of barriers to adoption
- privacy and data protection
- technological neutrality:
 - issues are ubiquitous
- open access



INTUG wants and needs

Consumers:

- secure
- private
- free choice:
 - networks
 - operators
- low price
- new services

Service providers

- open networks
- fair and nondiscriminatory access
- secure transfer of:
 - data
 - transactions

Free choice of telecommunications platform. GSM, cdma2000, BCN, Wi-Fi, PSTN, etc.



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INTUG accenture definition

- always on
- always aware
- always active
- continuously analysing situations to provide access to content and services that are relevant and useful



OECD Recommendation on **INTUG** protection of privacy

- obtained by lawful and fair means and with the knowledge or consent of the data subject
- relevant to the purposes for which they are to be used, and accurate, complete and up-to-date
- limited to the fulfillment of those purposes
- should not be disclosed for purposes other than those specified except:
 - (a) with the consent of the data subject; or
 - (b) by the authority of law.
- protected by reasonable security safeguards against loss or unauthorised access, or disclosure



OECD Document C(80)58(Final), October 1, 1980

INTUG European Union directives

- 15 member states, plus accession countries and copied elsewhere
- similar to OECD Guidelines
- 95/46 Data protection
- 02/58 Electronic communications
- tranposed into national law with variations



INTUG police and security services

- wire-tapping with a court order:
 - e.g., USA Communications Assistance for Law Enforcement Act (CALEA)
- retention of traffic data:
 - Cybercrime Convention of the Council of Europe
 - European Union 02/58 Article 13
 - definition and scope of data
 - duration of retention



INTUG additional data

- location:
 - time and place of an individual
 - can give patterns of movement
 - can be combined with
 - call data
 - locations of family and friends
- content:
 - what and when and where?
- payments and micro-payments

some parallels in bank and credit card data



INTUG fixed and mobile threats

- spam, spim, pop-up ads, etc
- viruses, trojan horses, worms, etc
- hacking and phishing
- identity theft
- mobile:
 - physical loss/theft of devices
 - snarfing (address book, photos, files)

systemic weaknesses, not least people.



INTUG profiles

- used on fixed and mobile (e.g., login ID and cookies)
- mobile is more clearly a given individual through X.164 number
- can be linked to home address and socio-economic data
- also transaction data
- also location data
- also content data



INTUG location

- on a national network:
 - triangulation or GPS from device
 - used by operator or third party
- from a local network:
 - 2G/3G micro-cell
 - Wi-Fi, Infra-red, bluetooth, etc
 - RFID
- inferences from location and time

already concern over the use of GPS location data by car rental firms



INTUG the "threat" of RFID

- Radio Frequency IDentification tag
- very small and very cheap
- commonly on goods at pallet level
- increasingly on individual products
- already raised significant privacy fears
- how do you get the right balance?



INTUG international roaming

- in a different legal jurisdiction – are the rights/duties different?
- with a different operator(s)
 are their policies different?
- potentially greater value of location based services when abroad
- severe legal problems for operators in complying with data protection legislation across borders



INTUG ENUM

- mapping E.164 number to multiple URIs
- heavily promoted
- but no security
- tried to map one person to one number:
 - a residence can have several residents, not all human (appliances, etc)
 - an individual can have several numbers
- functions can be delivered by SIP and instant messaging



INTUG multifunctional device

- phone
- personal digital assistant
- electronic purse
- camera
- identity document
- banking card
- music and games players



attempts at "wearable" telephones

INTUG cameraphones

- potentially concealed
- policies to exclude cameraphones for certain locations:
 - locker rooms
 - factories
 - R&D facilities
 - some offices
- some devices will make a camera noise



INTUG commercial communications

- immense volume of obviously illegitimate
- TACD survey shows a big discrepancy between senders' and recipients' views of what is legitimate
- new forms of communications:
 - SMS, MMS, etc
 - location based adverts
 - locally broadcast "neon" ads in cyberspace
- adverts may pay for/towards a service



INTUG risks

- how to strike the right balance for a given market?
- which market players have brand strength for security?
 - handset manufacturers
 - operators
 - third parties
- will bad communications drive out the good?



INTUG conclusions

- ubiquity of threats and risks
- but smaller and weaker devices
- added value in attacking a personal device
- a personal device reveals more
- human weakness with a "personal" device



INTUG issues

- how to maintain a balance that is:
 - reasonable
 - proportionate
- can we keep up with the hackers?
 - they innovate very rapidly
- can operators restrain the threat?
 - without harming competition
- can the law keep up?
 - legislators, police, judiciary, etc
- can it be controlled across several networks?



INTUG thank you

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