

Hacking Data Retention

Small Sister your Digital Privacy Self Defense
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Brenno de Winter, wgasa

- From the Netherlands
- Self proclaimed geek
- First program at age 5
- Focus on security, privacy
- Writing, training, consulting
- Wanna know more? Beer makes me talk!

Privacy and anonymity are
needed to safeguard
free speech

Program

- The wake-up call
- The issue at hand
- Small Sister can help
- Digital Privacy Self Defense

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Defcon 2007 Thou shall not like Segway's

I got arrested for photographing
a railway working on a Segway



Cool guy!

Inflation of civil rights

- Cartoons taken offline without judge's order
- Cartoonist jailed without a need
- Photographers hindered in public space
- Laptop searches at the border
- Policing websites for forbidden statements
- Demanding IP-address for writing ticket



Monitoring in the Netherlands

- Massive use of CCTV
- Public Transportation Card stores trips for seven years
- System for paying road tax will photograph license plates on many locations
- Anti-childporn “firewall” routes to police

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Privacy & Anonymity

- Privacy: the level of control over your information
- Anonymity: Doing something without the other knowing your identity

EU's Data Retention

- Directive
 - Finding out who's talking to whom
 - Who's e-mailing whom
 - Who owns which IP and which phone#
 - Use to prevent crime
 - Determining groups of people

Issue for

- Journalists with whistle blowers
- Anonymous tipping to police
- Lawyers, doctors, priests, etc.
- Political activists

Other issues

- Most people don't care, until ...
- Most PET's are user-unfriendly
- Many people are unaware
- Few users make solutions less effective
- Border searches for user data

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Small Sister

- Open Source Project that:
 - Doesn't reinvent the wheel
 - Contributes to other projects
 - Aim at larger userbase
 - Delivers working/easy to use tools
 - Does marketing as well as coding

The tool

- Communication to begin with
 - E-mail
 - Chat
- Seamless integration with existing tools
- Good user-experience on dealing with contacts

Reusing what's there

- Use existing networks for privacy and storage
- Encrypt using OpenPGP
- Enable storage in the cloud
 - cross computer usage
 - no local storage when necessary

Details during
presentation

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Getting around data retention

- Not so effective:
 - Using WLAN's
 - Prepaid GSM
 - SSH/Crypted tunnels to non-EU servers
 - Closed service (club)
 - Networks like Tor, OFF and Freenet

The obvious

- I've got nothing to hide?
 - Really?
 - From whom?
- Don't you trust your government?
 - Do I trust the government in 2013
- Why do you hide your online actions?
 - I'm not hiding, I'm protecting my data

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