APES: Anonymity and Privacy in Electronic Services

KULeuven

What is APES?

- Funded by the Flemish government
- 3 research partners: COSIC, DISTRINET, ICRI
- User group: Hypertrust, Data4s, Belgian Privacy Commission, Utimaco, Ubizen
- Started 2 years ago
- 4 year project

Work of the previous 2 years

- Unconditional anonymity
  - Overview of applications that require anonymity
  - List of anonymity requirements for these applications
  - Overview of available building blocks that provide anonymity
  - Develoment of anonymity tools: demonstrator of a privacy preserving targeted advertising system

Controlled anonymity

- For some applications, unconditional anonymity is not acceptable (e.g., electronic commerce)
- We need a mechanism to disclose the identity of users that abuse the system
- Based on escrow of identities
- Honest users remain anonymous while misbehaving users are identified

Controlled anonymity: requirements

- Identify applications that require controlled anonymity
- Requirements of revocation
  - Sensitive legal issues !?
- Taxonomy of revocation

Controlled anonymity: technologies

- Overview of tools and building blocks to implement revocation
- Develop a methodology to select technologies of revocation
- Legal aspects of controlled anonymity
- Develop new tools for controlled anonymity
  - Theoretical
  - Practical (demonstrator)

For more info…

- Documentation
- Workshops
- https://www.cosic.esat.kuleuven.ac.be/apes