Technical Approaches in SPION
(Security and Privacy In Online Social Networks)
A General Picture
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SNS
A General Picture
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A user of an online social network (OSN) wants to publish some information.

The user is connected to various other users who may connect to one another.

This network of users operates in a wider environment comprising agents -- the OSN service provider, companies affiliated with the provider in some way (e.g. ad companies), or governmental and law enforcement agencies.
A Paradigm of Privacy

• Privacy as Confidentiality
• Privacy as Control
• Privacy as Practice

[Gürses, S., 2010]
Privacy as Confidentiality

- Hide information (through e.g. encryption, obfuscation)

Whenever I communicate some data with someone, I want to keep the communication hidden from irrelevant others.
Privacy as Control

- More fine-grained decisions about the disclosure/hiding of personal information

A user could define constraints on who can and cannot access the data under what circumstances for which purposes.
Privacy as Practice

- Making it possible that people can intervene the flow of information and negotiate the boundaries with respect to collected data

Help Human gain insights of privacy-related information and make informed decisions.
Agenda

• Ero on Scramble (*Confidentiality*)
• Rula on PrivacyHole (*Access Control*)
• Willem on FlowFox (*Information Flow Control*)
• Bo on Bloomer (Practice)
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Privacy Feedback & Awareness Aspects
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Privacy Feedback & Awareness Aspects

A Privacy Feedback & Awareness Tool