Identity Management

Seminar Course, Summer 2009
2 SWS / 4,0 ECTS-Credits

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Motivation

- Identity theft
  - loss of $50 billion in US/year
  - $5 billion on top to undo the harm
- Phishing and Pharming
  - Growing at a compound rate of 1000%
  - Fastest growing segment of IT industry
- Identity Silos
- Decoupling identity from rest of the application
Foreseeing the future - Identity Management Roadmap

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<th>Technologies/Platforms</th>
<th>Identity 1.0</th>
<th>Identity 2.0</th>
<th>Future</th>
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<td>Social&amp;Business Platforms</td>
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<td>Game Platforms</td>
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<td>Dating Platforms</td>
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<td>Interoperable IdM-Middleware</td>
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<td>Intranet</td>
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<td>Autonomous Agent-SW-Agents</td>
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<td>Pseudonyms</td>
<td>Earmarked dynamic virtual identities</td>
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<td>Profile Management</td>
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“7 trillion wireless devices for 7 billion people in 2017"

Wireless World Research Forum

- 5-10 Years
Today 2008
+ 5-10 Years
Rapidly Increasing Amount of Individual-related Information
Digital Passport

- Security issues of e-Passport
- Privacy Issues
- Stolen e-Passport
- Formal Security Analysis on e-Passport
Vulnerabilities in Federated Identity Management

- Security Flaws
- Phishing and Pharming
- Privacy Issue
- Limitations
Information Card Unleashed

- Visual Metaphor of Digital Identity

- Usability

- On ist way to be standardized ....

- Types of InforCard:
  - P-Card
  - M-Card
  - R-Card
  - Z-Card
Identity Management in Distributed System

- Identity Management Ecosystem
- Distributed Identity (user)
- Distributed Identity Provider
Implication of Identity Metasystem in Mobile and Ubiquitous Computing

- Mobile Identity
- Convergence
- Interoperability
- Ambient Identity
Trust and Privacy Features of SAML 2.0: Strengths and Weaknesses

- SAML 2.0 (Security Assertion Markup Language)
- Portable Identity (Federation, Single Sign On .....)
- Privacy
- Trust