PrimeLife

PrimeLife Summit

June 7 - 8, 2011





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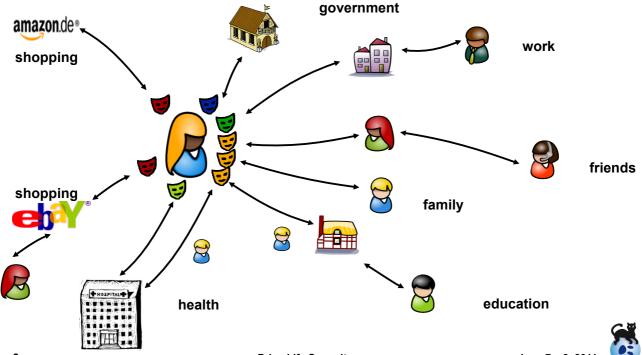




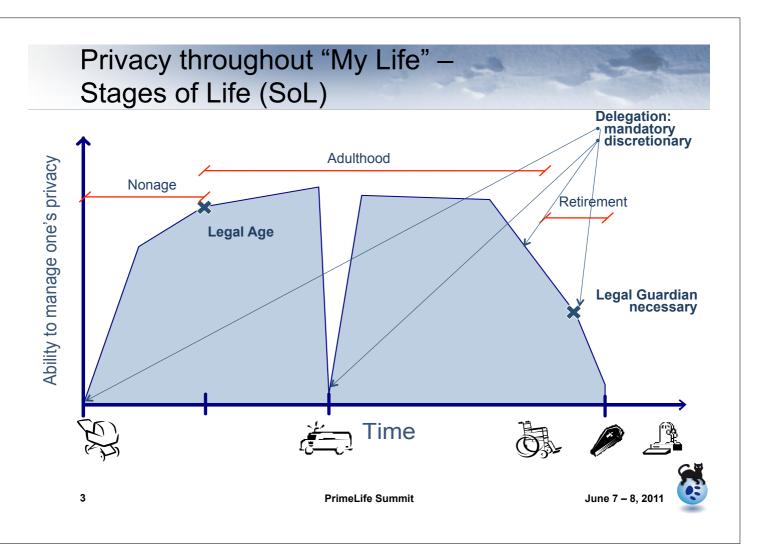


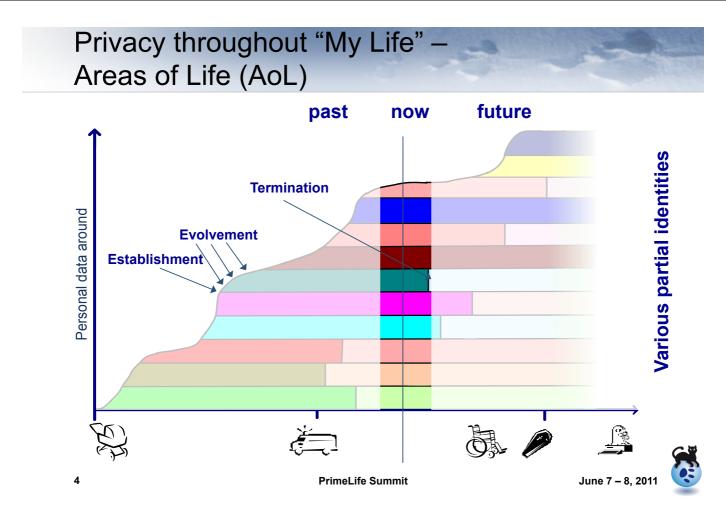


Privacy in "My Life"



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Focal Points of the Presentation

- Third year focal prototype
 - challenge we were faced:
 - develop a prototype considering timespan of 80 100 years
 - limited possibilities of predicting technology development
 - Lifelong personal data management demonstrator
- Delegation
 - important concept to tackle with stages of life
 - challenging in the context of privacy protection for law and technology development

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Delegation

- "... [a] data subject needs to be represented by another natural person who exercises the right on behalf of the data subject concerned during certain phases of life." [D1.3.1]
- means to cope with changing abilities and willingness to manage privacy
- delegation based on
 - legal provisions
 - explicit consent



Delegation requirements

- mechanisms for issuance of mandate for proxy and related activities including revocation
- support of "proxy credentials"
- mechanisms to trace proxy actions
- mechanisms to stipulate conditions and preferences
- mechanisms to protect the proxy's privacy

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Lifelong Personal Data Management Demonstrator

- useful area of public interest
 - most "normal" users are familiar with the concept
 - enhancement of existing idea
- lifelong privacy aspects:
 - everyday work with AoLs
 - everyday work with different SoLs
 - everyday work with partial identities (pIDs)
- combination with ideas and concepts from a couple of prototypes

Objectives of Demonstrator

- protection of user against unwanted data loss during his lifetime
 - redundancy and physical distribution
- assurance of lifelong confidentiality of user's data
 - encryption
- delegation of access rights to user's backup data
 - specific conditions
- distribution of the backup data according to different areas of life
 - privacy management in advanced way

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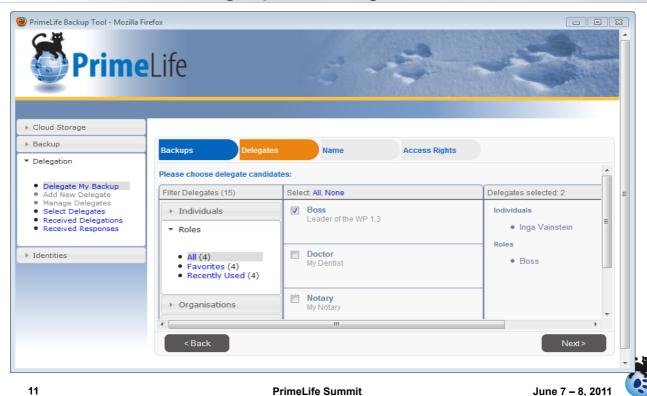


Features of the Demonstrator





Features: Setting up a Delegation



Features: Delegation/Collective Decision



Summary & Lessons Learned 1|2

- highly complex research area
- interdisciplinary approach
- two-fold problem field:
 - long-term security

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- minimization of disclosure of personal data & identity management
- domain-/application-/user-specific

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Summary & Lessons Learned 2|2

- design of privacy-respecting applications requires thorough contemplations:
 - the full lifespan of users meaning
 - dynamics in life conditions, aims, attitudes
 - changes in abilities and willingness to manage privacy
 - possible influences of privacy-related decisions for contexts other than the "current"
- delegation scenarios are crucial as
 - interests of all involved parties regarding their privacy and expected service/functionality have to be met
 - law has to be fulfilled













Thank you for your attention!









References

[D1.3.1] K. Borcea-Pfitzmann (ed.): Scenario, Analysis, and Design of Privacy Throughout Life Demonstrator. PrimeLife Deliverable D1.3.1, February 2011

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