PRIME – Privacy and Identity Management for Europe

Project Overview
Version 1.9 – June 2006
Topics

• PRIME
  – Who/what is PRIME?
  – Problem ⇔ vision ⇔ solution
  – Project life cycle

• PRIME results

• Reference Group

• Standardisation
Current State Online

- Increasing collection and use of personal data
  - Often necessary, frequently unreasonable
  - Technology/applications leave ever more traces
  - “Soft Sister” & “Big Brother”

- Potential privacy issues
  - Individual is losing control
  - Profiling, behavioural targeting, social sorting, dynamic pricing, blacklists, constant surveillance, dataveillance

- Values at stake
  - Privacy
    - Autonomy, individuality, dignity, equality...
Current Counterbalances

Current measures and solutions are partial and ineffective

- Legislation: compliancy suboptimal
- Consumer power: lack of choice
- Business: lack of incentives
- Government: conflicting interests
- PETs: complex, lack of standardisation, trust

Therefore an effective integrated approach is needed
In the Information Society, users can act and interact in a safe and secure way while retaining control of their private sphere.

Objectives:
- Privacy-enhancing IDM is viable today
- Enable use of PRIME within legal, social and economic environment
- Raise awareness among stakeholders
- Advance state-of-the-art towards vision
Reconciling privacy & accountability in a reliable, secure and trustworthy environment requires identity management based on

- Data minimisation & credentials
- Informed consent & user control
- Privacy negotiation, agreement and dispute resolution
- Accountability when needed
The solution has to be

- Technically feasible
- Understandable and manageable by end users
- Socially desirable and acceptable
- Legally compliant
- Commercially viable and exploitable
PRIME Solution

- User-controlled identity management system
  - Integrating technical and non-technical aspects
  - Taking into account requirements of various stakeholders
  - Implements:
    - Certified data – credentials
    - Service level agreements
    - Attribute-based authorisation
    - Trust mechanisms, e.g. trust-marks

- PRIME console
- Server components
PRIME Principles

1. Design starting from maximum privacy
2. System usage governed by explicit privacy rules
3. Privacy rules must be enforced, not just stated
4. Trustworthy privacy enforcement
5. Easy and intuitive abstractions of privacy for users
6. An integrated approach to privacy
7. Privacy integrated with applications
The PRIME project receives research funding from the Community’s Sixth Framework Programme and the Swiss Federal Office for Education and Science.

Integrated Project in the Information Society Technologies Priority

Duration: 4 years (March 2004 – February 2008)

Budget: M€ 13 (M€ 10 granted EC contribution)

Participants: 20 from industry, academia and data protection

Reference Group: members from various stakeholders

Website: http://www.prime-project.eu/
Development Cycle

Kickoff: Education & Common Ground

Requirements

Framework

Prototypes

Tutorials

Architecture

Research

Evaluation
Project Life

I  II  Phase III  Phase IV  V

Year 1  Year 2  Year 3  Year 4

Legal Socio-economics Appl. Req.
Application Prototypes
Assurance HCI Authorisation Cryptography Communication User-Side IDM Services-Side IDM Education
Framework Architecture
(Dissemination) (Management)

AP: Application Prototype
GT: General Public Tutorials
F: Framework
UP: Use Plan
A: Architecture
WP: White Paper
T: Tutorials

Early Protot.  Evaluation 1  Evaluation 2  Evaluation 3  Evaluation 4
Req. 0  Req. 1  Req. 2  Req. 3
F0  F1  F2  F3
A0  A1  A2

Requirements 1  2  3  0
Prototype 1  Prototype 2  Prototype 3
T0  T1  T2  T3

Research  Research  Research

AP 2  Eval. 5

PRIME
www.prime-project.eu
Page 13
PRIME Deliverables I

- Introduction to PRIME
  - Leaflets, press releases, slide presentations
  - White Papers
  - Tutorials

- (Technical) documents
  - Framework
  - Requirements
  - Architecture
  - Developer guidelines (HCI, assurance)

See www.prime-project.eu/prime_products/
PRIME Deliverables II

• Prototypes
  – Internet Communication
  – e-Learning
  – Location-Based Services
  – Airline and Airport Passenger Processes
  ⇨ Some parts are Open Source:
  www.prime-project.eu/prime_products/opensource/

• Research
  – Scientific publications
  ⇨ www.prime-project.eu/prime_products/papers/
PRIME Movie and Tutorials

- On the PRIME website!
- www.prime-project.eu/prime_products/tutorials/
- Tutorials contain interactive components
External interested experts providing early feedback on project results from different standpoints:

- **Data Protection:**
  EDRI – European Digital Rights; Article 29 Working Party; Data Protection Authorities from Austria, France, the Netherlands, Madrid, and Zurich

- **Industry:**
  Eurochambres; Credit Suisse; Ericsson; Hunton & Williams; IIS Partners; Microsoft EMEA

- **Government Authorities:**
  Austrian e-Government Authority; Danish Board of Technology; Ministry of the Interior and Kingdom Relations of the Netherlands

- **Independent Research:**
  ITA – Institute of Technology Assessment, Austria; RAND Europe

- **Academia:**
  Free University of Brussels; LSE – London School of Economics

- **Consumer Protection:**
  BEUC – The European Consumers’ Organisation
Standardisation Involvement

- PRIME monitors standardisation in the field of identity management and looks for contacts

- PRIME Workshop on Standards for Privacy in User-Centric Identity Management
  - Zurich 6-7 July, 2006

- Call for Position Papers online: www.prime-project.eu/events/standardisation-ws/
  - Deadline: 15 June, 2006

- Organised in co-operation with FIDIS (www.fidis.net/)
PRIME Contact

- www.prime-project.eu/

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