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The Life Management Initiative
Towards User-centric and Personalized Service Provisioning

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Outview

• “Freedom of speech” - and information about yourself
• Technology developments
  – Mobile Telecom, Cloud Services,
  – Internet of People, Things and Services (IoPTS)
• Privacy in the Internet Era
  – Business models and Convenience
  – Privacy protecting laws
• The Life Management Initiative
  – The Innovation Challenge of the Future Internet Services Ecosystem
  – From Information silos to user-enabled access
  – Initiatives & Authorities - ranking
• Way ahead
“These days”

All people should be allowed to connect to and express themselves freely on the Internet.

- The United Nations’ Human Rights Council unanimously backed that notion in a resolution on 5 July 2012. All 47 members of the Human Rights Council including China and Cuba signed the resolution.
"These days"

Most people do express themselves freely on the Internet.

and their devices and sensors tell even more.

Got You
Technology developments

- Distributed privacy-relevant information
- PC, Phone, Pad, …
- Car, home (automatic meter reading)
- Sensors
- Internet usage

Cloud services

Proximity services

NFC, Bluetooth, WLAN
The “Things” and big data

- "Things" become socially intelligent
  – yes, without doubts
  – requires new trust model
  – measurable security

- Growing IoT market - broad connectivity
  – essential openness of smart “everything”
  – security, privacy,

[source: Christopher Conradi, IBM]
Internet service usage

- Focus on silo
- Business through knowledge of users
Mobile service usage

- Facebook example:
  - record audio
  - read phone status and identity
- For what?
From Laws of Identity to Privacy by design

• 7 laws of identity
  – (1) User Control and Consent,
  – (2) Minimal Disclosure for a Constraint Use,
  – (3) Justifiable Parties,
  – (4) Directed Identity,
  – (5) Pluralism of Operators and Technologies,
  – (6) Human Integration, and
  – (7) Consistent Experience across Contexts

• Requires extensions for mobile/ambient environments
  – (8) Identity layer as own identity
  – (9) Ease of use of identities
  – (10) Scalability

[by: Kim Cameron, Microsoft]

[by: Mario Hoffmann, Fraunhofer]
IT has understood
“at least some of them”

It „would be a strong milestone...to have an all-inclusive uniform privacy law...that would give consumers control over their personal information. This would increase their confidence in providing information to legitimate businesses and other organizations."

Bill Gates, March 2007
Privacy observations taken during the European Identity Conference EIC’2013

Post-Privacy: Yet to come or has it already arrived?
Dr. Karsten Kinast, LL.M., KuppingerCole

Tackling the Identity Explosion: Getting a grip on Customers and Partners
Kim Cameron, Microsoft

You can Shelve your Big Data Startup Plans if you don’t have Privacy Covered - A Standards Perspective
Dr. Laurent Liscia, OASIS

Can “App” Phones Help Users to Manage their Identity and Privacy?
Prof. Dr. Kai Rannenberg, Goethe University in Frankfurt

topics from the European Identity Conf 2013
Ten commandments to protect privacy

• International Separation of Powers
• Telecommunications Secrecy
• Data Austerity
• Right to Anonymity
• Virtual Right to be Alone
• Right to Security
• Restriction on Secondary Use
• Transparency
• Access to one’s personal data
• International Complaints Resolution

Source: Alexander Dix
Berlin Commissioner for Data Protection and Freedom of Information, April 2007
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- **The Life Management Initiative**
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Topics to taken care of

- personal context-aware secure services matchmaking
- secure, privacy-preserving and interoperable profiles management
- multi-lateral security in service orchestrations
- dynamic user requirements engineering
- preferences hierarchy modelling
- digital footprints and the right to be forgotten
- dynamic policy management
- personal clouds; data authenticity, integrity and transparency in the Big Data world
- security and trust in social media;
- usable security, and the usability of security
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User management

Identity and trust management

for personal context-aware services

- personal context-aware secure services matchmaking
- secure, privacy-preserving and interoperable profiles management
- dynamic user requirements engineering
- preferences hierarchy modelling
- security and trust in social media;
- digital footprints and the right to be forgotten
Mockup
Supporting LifeApp
Life Management Initiative

Service dimension

(1) Life Management Platform, (2) Personalized Dashboard, (3) Smart Services Infrastructure, and (4) AppContinuum
Research challenges

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- supported by initiatives and standards, e.g. authorization & trust management through: **Kantara’s User Managed Access (UMA)** protocol, **OAuth2.0**, **U-Prove technology**, and the **Higgins 2.0 framework**
An overview

- Privacy by design
  - Canada
  - The Netherlands (QIC foundation)

- Focus of relevant actors
  - European Identity conference
  - Microsoft
  - Standardisation (OASIS, …)

- Evaluation of privacy
  - BackgroundChecks.org
  - Ranking

These 5 countries were ranked best for privacy (infographic):
Spain, the Czech Republic, Iceland, Norway, and Slovenia
Conclusions

• Internet and Mobile developments have created the Post-Privacy era
  – Internet growth and silo business models
  – Mobile Apps with “allow all” for “not defined”
• Legislator attempts to regulate
  – main challenge: competency to execute laws
• Consolidated Approach: Life Management Platform
  – a user centric representation of preferences
  – driven by policies
  – adaptable to the services world
• Based on known standards
  – requires common view for the app-world
Join us....

The more important is a **common understanding** how a **standardised** Life Management Platform is supposed to look like and how to **integrate** it in the Future Internet of People, Things, and Services!

➔ Join the **Life Management Initiative**