10 Years of Secure Digital ID from e-ID to Mobile-ID

Janek Mägi
• The Secure Identification Management
• E-services and a need for Digital-ID
• From the Digital-ID to the Mobile ID
Identity Management

- Personal ID Code
- ID Card or Residence card
- Identification on Biometrics
E-Services

PUBLIC
- Population register
- Vehicle register
- Health Insurance register
- Business register
- Register of Building etc.

PRIVATE
- Parking
- Banks
- Telecom
- Energy etc.
WHO IS THIS?

IDENTIFIED USER

Tax Board
Bank
Telecom
Database
CERTIFICATES AND PRIVAT KEY
ID and Digital ID Card
PC-s are history?

• We have abundance of new devices and the amount is growing
• Most of them lack the interface for traditional PKI based on smart cards or USB token
Rare picture
Solution is Secure Mobile-ID
Can I trust it?

Mobile Operator

Police webpage, Identify with ID card

Activate the Certificates

Private and Public identification
Process of signing

1. Create document
2. Request signature
3. Calculate/show control code

4. Send ID and document hash
5. Calculate control code
6. Confirm
7. Enter signing PIN
8. Calculate signature bits

9. Send back signature bits
10. Compile document
e- Residency

non-resident with Estonian digital identity (smart card) for access to digital services

www.e-resident.gov.ee
www.e-estonia.com
Estonian development fund competition winner

Launch page: 4000+ subscribers on day 1

Estonian parliament approves legislation

First e-Residency card issued

Estonian prime minister visits US

1. September
   - Government mandate to create e-Residency team

1. October
   - First day of seven-member team

1. November
   - Launch in 38 Estonian embassies abroad

1. December
   - Online application launch

mid December 2014

1. January
1. April
13. May
13. May
"Investments in Estonia"
- Businessmen from neighbouring countries
- Administer existing Estonian businesses and real estate online

"Virtual business environment"
- Freelancers, entrepreneurs
- Run location-independent international business online

"Open digital identity platform"
- Developers
- Use e-Residency as a platform to scale own services

"Community of e-Residents"
- Global citizens
- Join us to create a country without borders

"Tourism in Estonia"
- Academia, tourists
- Enjoy the same online benefits as locals

Unannounced partner, Silicon Valley, US

Jorma Tuomainen, Finland

Stanislav Yurin, Ukraine

Carlos Miceli, Argentina

Clare Sullivan, Australia

Thank you!

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