Cross-border authentication for electronic services – STORK project

Volker Reible
T-Systems International GmbH

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STORK
Heterogeneous eID landscape

- Technology
  - Smartcards: AT, BE, DE EE, ES, FI, IT, PT, SE, …
  - Mobile eID: AT, EE, FI, LU, NL, NO
  - Soft certif.: ES, SE, SI, …
  - usern./pass.: NL, UK, …

- Operational
  - Issued by public sector, private sector, combined
  - Issued at federal, regional, or local level

- Legal
  - (limited) use of identifiers; flat, sectoral, combined
National eID/eGov based on Smart Cards

Overview in Europe, Status August 2011

Typical steps for Government Projects

- Idea
  - Bosnia
  - Slovenia
  - Luxembourg

- Definition Framework
  - Hungary
  - Greece
  - Latvia
  - Croatia

- Specification
  - Poland
  - Romania
  - Bulgaria
  - Czech Rep.
  - Slovakia

- Test/Study Phase
  - France
  - Switzerland
  - Turkey

- Roll Out Phase
  - Austria
  - Belgium
  - Portugal
  - Sweden
  - Lithuania
  - Spain
  - Estonia
  - Finland
  - Italy
  - Monaco
  - Netherlands (1)
  - Germany
  - Ireland
  - Serbia

Source: IFX

No Activity:
- Denmark
- UK
- Norway
- Iceland

blue: voluntary
red: combination w/ eH

(1) only ICAO-BAC, BIG-EAC
National eID/eGov based on Smart Cards

Overview in Europe, Status August 2011

Germany
Start release nPA November 1\textsuperscript{st}, 2010

Ireland
Start of the release of the citizen service card from January 1\textsuperscript{st}, 2011
Functional range: social insurance, health and public services.

Switzerland
Pilot test of the eSignature function with the SwissID since Q4/2010.

France
Modification proposal of the national identity card law should have been brought in the parliament on April 28\textsuperscript{th}, 2011; the date had to be cancelled.

Poland
Postponement of the release from July 1\textsuperscript{st}, 2011 to January 1\textsuperscript{st}, 2013 has been announced.

Romania
Postponement of the release to end of 2012 has been announced.

Hungary
Electronic identity card is in the specification phase; the health function shall be supported.

Greece
STORK
Economic factor eID

- Internet does not know borders
- eCommerce growing rapidly
- mutual recognition of actors
EU Member States co-operate
Project structure

- Functional Design
- Technical Design
- Construction & Implementation
- Pilots – Operation and Exploitation
- Evaluation
- Framework mapping
- Legal interoperability
- Quality authenticator scheme
- eID PROCESS FLOWS
- Common, SAML 2.0 - based specifications have been agreed by the STORK consortium
- Assessment on common specifications on eID
- Cross-border authentication platform
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Use cases

- STORK assumes online-access of citizen with eID
  - User-centric model
- Four use cases
  - **Authentication**: in an online access to a service provider
  - **Attribute Transfer**
    - STORK defines eID as the identifier (e.g. national citizen ID),
    - “the rest” (name, date of birth, qualification) are attributes
  - **Attribute Verification**: is a certain attribute presented by the citizen correct?
- **Certificate Verification**: for electronic signatures
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Architecture and Models

- One Interoperability Framework, Two Basic Models
  - Middleware (MW)
  - Pan-European Proxy Services (PEPS)
  - … and its combination: MW → PEPS, PEPS → MW

- The common specifications have been designed so that major components operate on the same protocols, irrespective of the model or its combinations.
STORK Overview

Pilot Operation
- All vs. all
- Sustainability mode
- Common specs
- Common code
- Licensing
- Evaluation
- ISA handover

Implementation
-SEP 2010

Technical design
- OCT 2009

Functional design
- FEB 2009

FEB 2011
STORK Pilots

1. Pilot 1 – Cross border authentication
2. Pilot 2 – safer chat
3. Pilot 3 – eID Student Mobility
4. Pilot 4 – eID electronic delivery
5. Pilot 5 – EU Citizen Change of Address
6. Pilot 6 – ECAS integration
STORK
Cross-border authentication for electronic services

- enables citizens to access services in a secure way, by using their own electronic identity issued by their own country
- the user is in control of her data, a high level of trust is generated and a more efficient service is provided
- the pilot demonstrates that cross-border electronic services can operate in a number of European Countries

European Countries involved in this service:
Austria, Belgium, Estonia, Germany, Iceland, Portugal, Finland, Lithuania, France, (Greece).
STORK
Pilots are alive
### STORK Interoperability matrix

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<thead>
<tr>
<th>Pilot#</th>
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#### Credentials

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STORK
Current Status and Highlights

- High visibility at the Commission (N. Kroes, DAA, …) and in the Member States, Prio-Topic for Polish presidency
- Procedural and legal constraints plus mixture of laboratory -, pilot -, and production infrastructure
- V-IDP roll-out in cooperation with AT
- Successful Go Live in 15 MS
- ECAS pilot and continuation through ISA program (DIGIT)
THANK YOU FOR YOUR ATTENTION

info@eid-stork.eu