Introduction to STORK2.0 project

AAI Workshop
Brussels, April 2014
EUROPEAN EID CONTEXT FOR EGOVERNMENT
National online services today with eID

Stork 2.0 is an EU co-funded project INFSO-ICT-PSP-297263
All MS have their own eID infrastructure
Borders will open & National online services will improve

Opportunities for public and private sector

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Large Scale Pilot - STORK

Results
2008-2011

17 countries “PEPS/VIDP-Enabled” all over Europe
More than 30 services running
More than 40 different credentials supported
STORK – Credentials
Overview

3 year project
2012 to 2015

19 countries involved

58 partners
**STORK structure**

**IdP**
Identity providers (for basic identity attributes, generally are public bodies or CA that offer their services to general public)

**SP**
Service providers connected to the infrastructure (in the academic pilot in STORK2.0, most of them are universities)

**PEPS/V-IDP**
Interconnected proxies that integrate STORK common infrastructure (typically, one per country and run by a public administration or on behalf of it)

**AP**
Attribute providers (for business attributes, specific attributes related to different sectors of activity such as education, banking, health...)

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STORK 2.0 Pilots

**eLEARNING and ACADEMIC QUALIFICATIONS**
- eLearning: cross-border academic services.
- Academic Qualifications: use of academic information (titles, registers, qualifications) by governmental and private institutions.

**eBANKING**
- Online banking services supporting national eIDs.
- Enable companies to open bank accounts and consult their daily procedures electronically and remotely.

**PUBLIC SERVICES for BUSINESSES**
- Enable legal entities to use online public services in other Member States, with already existing procedures and applications.

**eHEALTH**
- Secure online access to medical data.
- The patients’ rights to access to their personal medical data in cross-border health services.

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Interaction with the other LSPs building on gained experience and lessons learned.

Close liaisons foreseen with:

- **eCODEX** for legal aspects around eID for legal persons
- **epSOS** for integrating STORK 2.0 solutions for eID-based authentication with its eHealth infrastructure
- **eSENS** for an infrastructure for cross-border public services delivery in support of the Digital Single Market
PLATFORM DEVELOPMENT
Enhancements to STORK 1

It encompasses eID for secure electronic authentication of **both legal and natural persons**.

- It includes facilities for *mandates*, widely useable across the EU, providing strong data protection and secure ways of transferring attributes, all under user control.

Its allows the use of STORK not only to private sector but also public sectors, in the first place banks.

- This increases the requirements on availability, security, and reliability.
Platform **built around the user centric approach.**

**No data is being sent abroad** unless the user allows the administration to do so.

The user **can give his consent** in various different ways:

- **Implicitly:** By introducing his credential, he implicitly allows the data to be transferred to its destination SP.

- **Explicitly for data types:** Allows users to exclude attributes to be sent.

- **Explicitly with data values:** Eliminates data to be sent to SP. As data is signed, user may not exclude any item.
Business Processes

Authentication on behalf of:

- Allow access to an application with data of another legal/natural person.

Powers (for digital signature)

- (as part of a contract, commercial proposal, etc.), and representation powers of signatory should be verified.
- Powers as stored by a service provider need to be updated / validated periodically.
Business attributes

User

Basic Id Attributes
- Name
- Address
- Date of Birth

Extended Id Attributes
- Degrees
- Profession
- Certifications
- Languages
- Official permits
- ...

Specific Business Attributes
- Academic Life
- Financial Life
- Health Life
- Public Services
- ...

Business Processes
Business Processes

Business Attributes

- Attributes proceeding from a certain business sector, often with a meaning limited to this sector, are to be retrieved from various Attribute providers
- Need from pilots to interchange extended personal data (hasDegree with diplomaSupplement, isHealthcareProfessional, etc.)
- As standardised as possible (for cross-border use)
- Multi-country attribute collection
### Other Processes in STORK 2.0

<table>
<thead>
<tr>
<th>Signatures</th>
<th>Version control</th>
<th>Anonymity</th>
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<tbody>
<tr>
<td>• Adoption of a common solution for creation and validation of signatures</td>
<td>• Control of software and configuration versions</td>
<td>• For anonymous eSurveys, eVoting, etc.</td>
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<tr>
<td>• Based on existing open source software (e.g. PEPPOL)</td>
<td>• Procedure for automatic inclusion of renewed certificate</td>
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<tr>
<td>• Covering standards adopted by the EC, especially PAdES and XAdES with most common versions</td>
<td>• Automatic inclusion of new MS</td>
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<td>• Integration, packaging, examples, and revision of documentation</td>
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Plans

Feb 2014
- Common development and test

Mar 2014
- Node integration and test
- Pilot integration and test

Mar 2015
- Pilot running and evaluation
- Maintenance, bug fixes
- Packaging

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E-SIGNATURE
• Authentication is not sufficient
• Authorisation is a step
• Signature may be mandatory, e.g. in Banking
• Based on LSP PEPPOL signature service
SECURITY - QAA
As authentication levels for a given application may differ across Member States, the project defined **attribute quality authentication assurance levels (AQAA)** at a European scale to:

- **Measure the quality** of different attribute provider procedures.
- **Ensure interoperability** between the different attribute standards that exist in Europe.
QAA level framework

- Allows for mapping national eID solutions to STORK QAA levels.
- Provides a means for mapping different member states levels onto each other.
- Similar to the “IDABC authentication levels report”.
- Compatible with the “Liberty Identity Assurance Framework”.

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<tr>
<th>STORK QAA level</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Minimal assurance</td>
</tr>
<tr>
<td>2</td>
<td>Low assurance</td>
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<tr>
<td>3</td>
<td>Substantial assurance</td>
</tr>
<tr>
<td>4</td>
<td>High assurance</td>
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STORK2.0 will analyse the need and possible mechanisms to
• set up a neutral accreditation body,
• verify compliance to the STORK QAA framework,
• take care of the contractual aspects regarding trusted eID interoperability.

The requirements of such a body will be identified, its feasibility will be examined, and a business as well as a governance concept will be designed.

Alternatives, like mutual recognition, are included in the analysis.
HOW TO GET INVOLVED...

• Visit STORK 2.0 website www.eid-stork2.eu !
• Subscribe to STORK 2.0 Newsletter!
• Participate & “like” Stork eID Facebook page!
• “Follow” us on Twitter @StorkEid !
• Connect to Stork 2.0 EID LinkedIn page!
• Register in STORK 2.0 online groups!
• Contact us at info@eid-stork2.eu !
Demonstration of the functionality

Visit the pilot: www.eid-stork.eu/pilots/pilot3.htm
Thank you for your attention!

www.eid-stork2.eu