

STORK 2: FROM STUDENT MOBILITY TO THE eLEARNING AND ACADEMIC QUALIFICATIONS PILOT

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1. INTRODUCTION

Secure idenTity acrOss boRders linKed (STORK) is a project co-funded by the European Commission as a part of its Competitiveness and Innovation Programme (CIP) in order to address, in a cross-border scenario, the identity management problem. Composed 29 partners and 14 countries, this project finished on December 2011. As a result, a hard and trustable authentication scheme that relies on a first-class distributed infrastructure has been built and tested. In this first step the authentication and authorization problem in a cross-border federated environment was solved. But now, added value to the infrastructure deployed can be envisaged: the need for exchange of complex attributes, more electronic services to widespread the use of electronic credentials and attribute interchange versatility are still problems to be solved. To develop and test those added-value services is the main focus of STORK 2.0.

1.1. BACKGROUND

STORK 2 will be deployed over the STORK project infrastructure. This project will bring together 57 partners from 19 EU member states mixing public and private sector organizations. The main objective of STORK 2 is to materialize the results of collaboration and convergence of key private and public sector stakeholders in an operational open framework and infrastructure encompassing eID for secure electronic authentication of both legal and natural persons.

2. FROM STUDENTS' MOBILITY TO THE ELEARNING AND ACADEMIC QUALIFICATIONS PILOT

Students' Mobility Pilot of STORK project has finished with more than 15 services from more than 8 universities publicly available to students (Erasmus registration and enrolment, password recovering and change, SSO authentication, virtual e-Learning access, ...). A proven fact is that STORK has enhanced the overall security of the authentication and authorization procedures that the Service Providers offers, given the user a full control of the authentication data that is transmitted and allowing the use of stronger credentials for accessing University Services.

STORK 2 will be build over the success of STORK. Four pilots will be implemented to demonstrate interoperable services in real-life settings and validate common specifications, standards and building blocks, exploring scenarios to address challenging legal and governance issues.

These pilots are:

eBanking: The pilot will show how STORK 2.0 may help to increase work and life place mobility of citizens in Europe by giving them easy access to essential services such as opening a new bank account across borders online.

- **Public Services for Business:** will focus on a number of different procedures that need an enhanced pan European infrastructure for the management of the eID for legal person, to reduce administrative burden and avoid frauds.
- **eHealth:** This pilot will cooperate with the Large Scale Pilot epSOS (“European Patients - Smart Open Services”) in order to provide electronic identification through STORK.
- **eLearning and Academic Qualifications:** Using a scenario based around the academic world, a contribution will be made to enabling complex attributes to be gathered and presented to online processes, which would subsequently contribute to the overall STORK 2.0 infrastructure.

This abstract and presentation will focus on the e-Learning and Academic Qualifications that brings together 18 partners from 11 different countries. This pilot is divided into two use cases:

1. Advanced cross-border e-Learning environments:

The international openness and mobility promoted by the creation of the European Higher Education Area (EHEA) has driven academic institutions to build strategic alliances both at a national and international level. In this context, the possibility of developing, configuring and organizing higher education systems in order to transcend national boundaries and converge is a common concern for European Universities. One of the aspects of the above mentioned convergence of the systems is the one needed in the field of e-learning tools for developing joint degrees. Thus this pilot will set the basis for developing joint degrees among European Universities on the top of STORK authentication and allowing the course to be distributed among several universities eliminating the complexity of credential distribution. This will be achieved by developing a **cross-border e-learning platform** where a course on STORK fundamentals will be offered for piloting purposes.

An important tool for decision makers are surveys, in the academic world surveys reflect the opinion from the students or teachers about a subject appropriateness, classrooms, timetables, etc. These surveys must be anonymous in order to get unbiased and accurate results. Hence, within this use case, a service that allows performing **opinion survey in an anonymous way** will be deployed using the STORK infrastructure.

2. Academic Attribute Verification for Job Qualification / Selection:

Through three services: **Virtual Printing Service, Job Qualification and Job Selection**, this use case will allow the interchange of attributes between universities and private companies with the consent of the user that owns the data. The available attributes will be enriched with non-academic attributes in this use case thus, the users will be able to give a proof of, for example, its work experience in one specific sector by using this services.