10. Report on IDABC

eID interoperability: multi-level authentication and common specifications

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Manchester Ministerial Declaration

- No citizen left behind – inclusion by design
  - By 2010 all citizens become major beneficiaries
  - ICT for efficient and effective government
  - By 2010 high user satisfaction
  - By 2010 admn. burden reduction, efficiency, transparency, accountability
  - Delivering high impact services
  - By 2010 100% e-procurement available, 50% take-up
  - By 2010 deliver other high impact services for growth and jobs
- Trusted access by means of eIDM across the EU
  - By 2010 interoperable eIDM for public services across the EU
  - By 2010 electronic document recognition framework

(24 November 2005)

Outline

- Policy background
  - i2010 Action Plan
  - Action Plan e-Signatures and e-identification

- PKI related studies in IDABC
  - Mutual recognition of eSignatures
  - eID interoperability

- Ongoing work
  - IDABC + Action Plan
  - CIP Pilot "STORK"

i2010 Action Plan

- 2007: Agree common specifications for interoperable eIDM in the EU.
- 2008: Large scale pilots of interoperable eIDMs in cross-border services and implementing commonly agreed specifications.
- 2010: Review the uptake by the Member States of the European eIDM framework for interoperable eIDMs.
Single Market Review

A single market for 21st century Europe COM(2007) 724 final

- ICT is essential for the good functioning of the "e-Internal Market", creating interoperable services such as e-invoicing, e-procurement and e-customs. With the rapid development of these technologies, there is the risk that Member States opt for different or incompatible solutions, and that new "e-barriers" would emerge for the end users. The Member States and the Commission, working together, need to redouble their efforts to avoid market fragmentation and promote commonly agreed ICT solutions.

- Building on on-going work in the field of e-government, the Commission will present in 2008 a specific Action Plan to further promote the implementation of mutually recognised and interoperable electronic signatures and e-authentication (electronic identity) between the Member States, thereby facilitating the provision of cross-border public services.

Security in Community legislation

- Directive 2004/18/EC: e-signatures are electronic data carried within or associated with a document and intended to sign or authenticate a document or a part of a document.

- Directive 2004/38/EC: allow secure and fast access to comparable public health data and to patient information.


- Council Directive 2006/112/EC: Invoices sent or made available by electronic means shall be accepted (…) provided that the authenticity of the origin and the integrity of their content are guaranteed (…) by means of an advanced electronic signature.

- Directive 2006/123/EC: all procedures and formalities relating to access to a service activity and to the exercise thereof may be easily completed, at a distance and by electronic means…

Action Plan e-signatures and e-identification

- Action Plan on e-signatures and e-identification to facilitate the provision of cross-border public services in the Single Market COM(2008)798 Final

- Based on the existing legal framework

- Horizontal actions to improve cross-border use of online public services

- Takes into account the work already done and presently ongoing (e.g., follow-up for IDABC studies on eID and eSignatures, feasibility study for Validation Service)

- Underlines importance of STORK and PEPPOL

- Actions to improve transparency and trust; elaboration of guidelines

eSignatures study (2007)

- Preliminary study on mutual recognition of eSignatures

- Studied a total of 127 eGovernment applications described in details in 29 country profiles (27 MS + 2 CC)

- Analyses the requirements in terms of interoperability of electronic signatures for different eGovernment applications, and to provide recommendations on how to improve interoperability.

- Provides an overview of applications per Member State concentrating on:
  - The type of electronic signature legally required
  - The applicable technical restrictions

- Makes a proposal on how to disseminate the results, e.g. through a mutual information mechanism on electronic signature requirements.
**eID Multilevel authentication mechanism**

- A multilevel authentication model that is universally applicable, taking into account local preferences, sensitivities, and existing infrastructure.
- Technology neutral (i.e., not exclusively PKI).
- Inclusive, i.e., covering all possible registration mechanisms.
- Covering at a minimum requirements for risk management, registration policies, and authentication as such.
- Resulted in four Authentication Assurance Levels, in terms of risk and potential damage in case of abuse with registration requirements for solutions to be used and authentication requirements.
  - ENISA’s work on Authentication Interoperability.

**eID Draft Common Specifications**

- An overview of requirements for a pan-European eIDM Infrastructure, covering legal, socio-cultural, technical, organisational aspects, while keeping into account local preferences, sensitivities, and existing infrastructure.
- Design principles:
  - Federated, multilevel.
  - Relying on authentic sources.
  - Allowing a context/sector based approach; and enabling private sector uptake, as soon as appropriate.
  - To be tested and developed further, e.g., in line with the STORK Pilot (WP5).


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**eID Interoperability study (2007)**

A strategy for eID Interoperability that includes:

- A survey and comparison of the national eID legal frameworks and national technical solutions implemented in 27+2+3 countries.
- A market assessment of the ID Management technical solutions; in particular a high-level description of the concept of federated identities.
- A proposal and an impact assessment of a multi-level authentication mechanism.
- Common specifications for interoperable eID solutions.

Based on existing actions at the EU level:

- E.g., Modinis Study on ID Management in eGovernment, IST projects GUIDE, FIDSIS and PRIME, work by the Porvoo Group, etc.
Ongoing work

**Qualified electronic signatures**
- 2009/Q3: update Decision 2003/511/EC
- 2009/Q2: "Trusted List of Supervised Qualified Certification Service Providers" at European level.
- 2009/Q3: guidelines on common requirements

**Advanced electronic signatures**
- 2009/Q2: eSignature study: updated country profiles
- 2009/Q2: European federated validation service feasibility study

**eID**
- 2009/Q4: e-ID study: updated country profiles
- 2008-2011: CIP ICT-PSP Pilot "STORK"
- 2009: creation of a eID forum on epractice.eu

Federated Validation

ICT Policy Support Programme Large Scale Pilots

- Competitiveness and Innovation framework Programme (CIP)
- Pilot’s areas defined by Member States in the context of agreed political declarations (e.g. Manchester declaration)
- eGovernment call 2007 → two Large Scale Pilots on Interoperability, with direct involvement and leadership of Member States:
  - EU-wide public eProcurement
  - Pan-European recognition of eIDs

- Implementation of an integrated EU-wide electronic public procurement solution...
- Implementation of an EU wide interoperable system for recognition of eID and authentication...

...enabling companies, in particular SMEs, from one state to respond to public procurements in any other state.
...enabling businesses, citizens to use their national electronic identities in any Member State
eSignatures:

- 14 countries, 29 consortium partners, public and private sector organisations
- AT BE DE EE ES FR IS IT LU NL PT SE SI UK
- 20 MC in 3 years, 50% co-funded by CIP
- Implements an EU wide interoperable system for recognition of eID and authentication and will:
  - Develop common rules and specifications to assist mutual recognition of eIDs across national borders
  - Test, in real life environments, secure and easy-to-use eID solutions for citizens and businesses
  - Interact with other EU initiatives to maximise the usefulness of eID services.
  - WP2: “eID Inventory, Trust, and Application Groups”
  - WP5: “Common Specifications”

See [http://www.eid-stork.eu](http://www.eid-stork.eu)

More information:

- The IDABC Programme: [http://ec.europa.eu/idabc](http://ec.europa.eu/idabc)
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