

State of the Art of eEpoch Project

eEpoch 2nd Conference

Issy-les-Moulineaux

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(ETRA I+D)



Content

- Snapshot of eEpoch.
- Non-technical aspects.
- Technical aspects.
- eEpoch Pilots.
- What next?



Snapshot of eEpoch

Summary of eEpoch objectives
eEpoch Consortium
Structure and phases of the project



Aim

The aim of eEpoch is to demonstrate interoperable and secure smart card based digital identification systems, which provide the levels of trust and confidence necessary for citizens to interact digitally with their national and municipal administrations and other European institutions.



Purpose

- To be a proof of concept for eESC
- To be a showcase for benefits of interoperability
- To be a proof that it can be done at European scale

eEpoch



eEpoch Objectives

- Establish a knowledge base for e-sign & e-transaction communities
- Demonstrate the smart card technology capability of implementing a solution for secure and authenticated digital identity
- Demonstrate the interoperability of the services and solutions according to the requirements of the users and the legal frameworks
- Propose solutions to harmonise smart card infrastructures to support the interoperability across sectors and countries
- Disseminate the lessons learned and contribute to the promotion of smart cards

eEpoch



eEpoch Participants

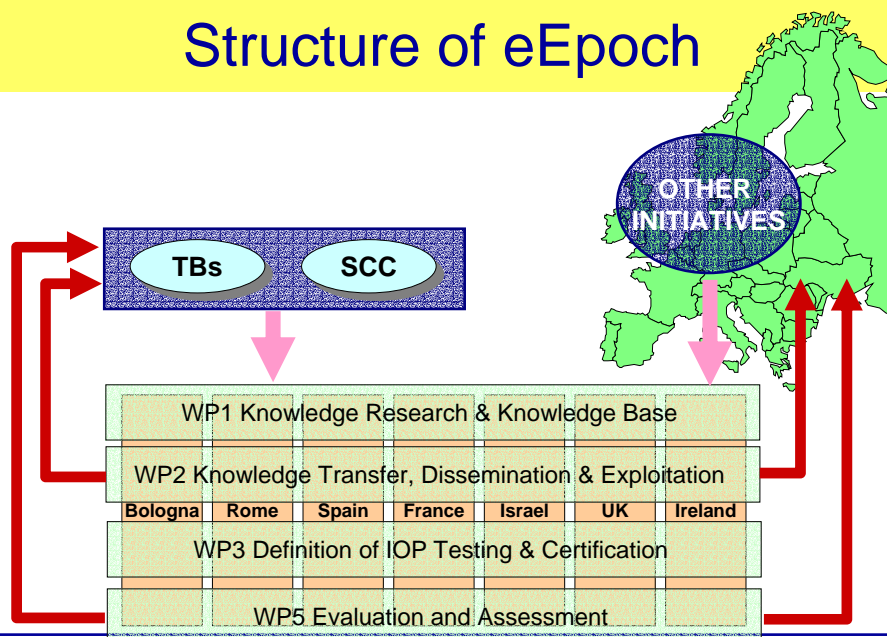
16 Organizations

7 Pilots

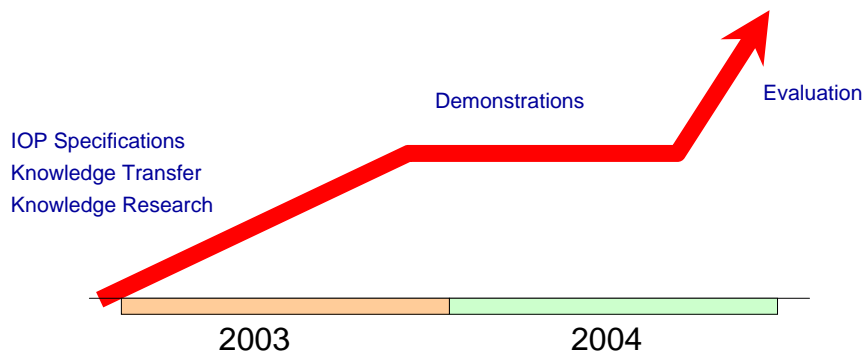
ETRA INVESTIGATION Y DESAROLLO, S.A.	E	Comune di Bologna	I
SCHLUMBERGER/SEMA	F	Laboratori Fondazione Guglielmo Marconi	I
GlobalSign	B	Istituto Nazionale della Previdenza Sociale	I
Safelayer	E	FINSIEL S.p.A.	I
GIESECKE & DEVRIENT	D	POSTECOM S.p.A.	I
SEM ISSY MEDIA	F	Direccion General de la Policia	E
REACH Agency	IRL	Sheffield City Council	UK
Ministry of Finance - Israel	IL	Universidad Carlos III	E



Structure of eEpoch



Phases of eEpoch



eEpoch



eEurope
SmartGrids

Non-technical aspects

Knowledge Research & Knowledge
Base

Technical IOP Specifications
Knowledge Transfer

eEpoch



eEurope
SmartGrids

Non-technical Knowledge

- WP1 is actively involved in developing the non-technical knowledge on interoperability in eEpoch. This non-technical knowledge is focussed on the functions of IAS, and its relation to the e-services as well as the IAS-data. The 'e-services' as such are no part of the eEpoch project, but a 'connection mechanism' between IAS and the e-service does belong the knowledge to be defined.

Knowledge Research (I)

- To establish the knowledge concerning pan European interoperability (IOP) on Identification, Authentication, and Signature (IAS), based on smart cards (e-Key)
- To execute action research, in order to gain non-technical knowledge concerning IOP / IAS with e-Key
- To exploit a knowledge portal on IOP / IAS (web site) for and on behalf of the eEpoch project

Knowledge Research (II)

- On-going data collection process
 - to know how pilots will arrange their IOP demonstrations.
 - To know the cross pilot test cases
- Every pilot defines its interoperability relation to each of the other pilots.
- It is the mission of eEpoch to assist the pilots in structuring the relations, based on the models as given in GIF.

Knowledge Research (III)

To > From v	Bologna	Issy-les-Moulineaux	Jerusalem	Newcastle	Rome	Spain
Bologna						
Issy-les-Moulineaux						
Jerusalem						
Newcastle						
Rome						
Spain						

Action Research

- Methodology to support the pilots on specific topics of research:
 - Cost saving in technology components
 - Business case by sharing generic IAS services
 - Assessment of the applicability of operational standards in IOP-situations

IOP Plans

- Pilots are identifying:
 - e-Services they intend to make interoperable
 - Authentication levels they can offer to external e-service providers
 - IOP Scenarios
 - Demonstration agreements

Technical aspects

Technical IOP Specifications

Technical Specifications (I)

- An interoperable smart card application that provides Identification, Authentication and electronic Signature services (IAS) is being specified.
- This application will be used by the different pilot sites throughout Europe.
- The starting point for the specification are the GIF requirements.

Technical Specifications (II)

- According to this requirements and the special needs of the pilot sites a subset of the E-Sign K specification is defined.
- This subset is enhanced by several features according to the requirements. These additional features are based upon the ISO/IEC 7816 standard wherever possible

Technical Specifications (III)

- Work done
 - Functional Mapping of GIF on E-Sign K
 - Generic IAS Application / System package based on E-Sign K
 - LOAD of APPLETS protocol

Knowledge Transfer

- eE
- wE
- eE
- Sy

Interoperability Matrix
Check the information exchange between the different projects by clicking the cells.

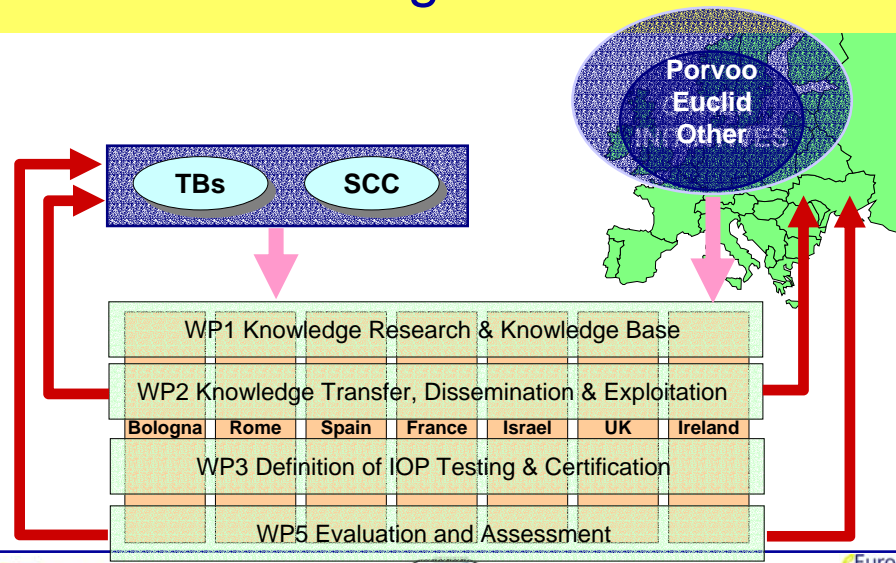
From \ To	Bologna	Isy	Molncaux	Jerusalem	Roma	Sheffield	Spain	?
Bologna								
Isy								
Molncaux								
Jerusalem								
Roma								
Sheffield								
Spain								
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Interoperability agreement
Interoperability offer
Offer in discussion
Administrative in preparation
Interoperability demonstration implemented

Last update: 22:55 05/03 2003



Knowledge Transfer



What Next?

- Set up the Pilots by the end of 2003.
- Demonstrate IOP feasibility in specific test cases.
- Governments and authorities to provide IOP on IAS framework at organizational and legal levels.

**More info in
www.eepoch.net**