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Pan-European Interoperability Solutions: Experiences from eEpoch Pilot Sites

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 - Jerusalem
 - Rome
 - Sheffield
 - Spain



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Interoperable eID

- It seems that everyone has a clear idea of what eID is, what is for, and the need of interoperability
 - But those clear ideas could be very different among each of the people involved
 - Among countries
 - A different ID culture
 - Customers / companies / governments
 - A clear different “what for”



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Interoperable eID

- Lets play with some examples:
 - Having a “legal” ID in some countries is:
 - Something normal (even we can think of how could people live without that!!!) e.g. Spain
 - Something intrusive to their own privacy (why must I have to be identified?) e.g. UK
 - About commercial perspectives:
 - Companies want to ID all the people for reasons such as marketing, etc.
 - Clients are tired of giving their data to companies (spam suffering, what are they going to do with my data?, “I really do not want to be identified!”)



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Interoperable eID

- Then:
 - eID must handle these situations
 - Interoperability must consider not only the perspectives from the “service providers” but mainly the “clients”
- Once the “services” are clarified, and the “clients” are positive about them:
 - Agreements at different levels must be reached
 - Situations for Interoperability need must be identified
 - Interoperability design
 - Bottlenecks avoiding



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Levels of eID IOP

- Usually a bottom-up strategy is usually followed:
 - Technical IOP
 - Storage Media
 - Algorithms
 - Data Definition
 - This seems to be mandatory, and the reason to reach IOP
 - A lot of fighting for commercial, economical, strategy, etc. reasons
 - Non-Technical IOP
 - With who am I going to be IOP?
 - What for?
 - Am I approving an eID from a third party?
 - All services need the same level of eID?
 - The eID has to be the “legal eID”?
 - ...



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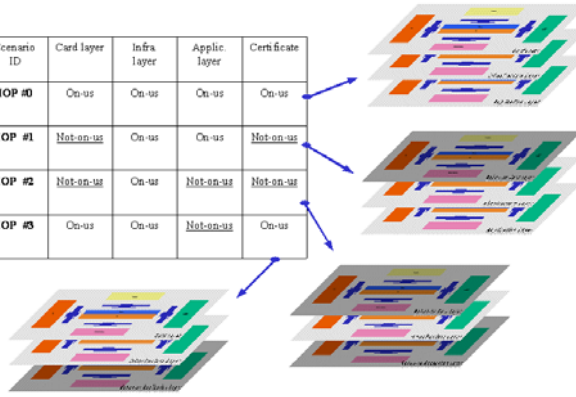


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Levels of eID IOP

- In this sense, GIF support some clarifying ideas
 - But mainly technical or really near to the technical side

Scenario ID	Card layer	Infra layer	Applic. layer	Certificate
IOP #0	On-us	On-us	On-us	On-us
IOP #1	Not-on-us	On-us	On-us	Not-on-us
IOP #2	Not-on-us	On-us	Not-on-us	Not-on-us
IOP #3	On-us	On-us	Not-on-us	On-us



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Bottlenecks

- Typically bottlenecks are identified with “technological reasons”
 - Different kind of cards
 - Different readers
 - Different databases
 - Different certificate structures
 - Different CAs
 - ...
- Most of the “technological reasons” (if not all) could be solved
 - Building a more or less complicated “middleware”
 - Building a “middle-infrastructure”
 - Being devoted to reach an agreement!!!



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Bottlenecks

- An example outside this world:
 - Who knows which video card is installed in his/her computer?
 - Is it the same as the one of your colleague at your side?
 - Do you both are able to use your software?
- An example inside this world:
 - Using Proprietary OS cards, or JavaCards, or MultOS could be the same
 - as far as an IOP set of APDUs is defined (full and realistic)
 - or as far as an API is built so that applications could use that API, instead of accessing directly to the card
 - The bottleneck now is “who is/want to build that?”



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Bottlenecks

- Much more difficult is to solve “the other” bottlenecks
 - Political
 - Commercial
 - Previous agreements
 - Economical
 - etc.
- But much more important is also answering the previous mentioned questions:
 - With who am I going to be IOP?
 - What for?
 - Am I approving an eID from a third party?
 - All services need the same level of eID IOP?
 - The eID has to be “the legal eID”?



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eEpoch Pilot Sites

- In eEpoch, we are devoted to reach IOP
 - Solving the technical bottlenecks
 - Solving “some” non-technical bottlenecks
 - Through a set of Pilot Projects in different areas and countries in Europe
 - Bologna
 - Issy-les-Moulineaux
 - Jerusalem
 - Rome
 - Sheffield City Council
 - Spain
 - Different concepts of eID, different services, different levels of IOP



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Bologna

- Bologna offers for the pilot two browser based services:
 - A service for entrepreneurs wanting to establish a company in Bologna,
 - A service for owners of actual properties in Bologna, wanting to handle their local taxes.
- Accepted by
 - Spain
 - Rome
 - Issy

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Issy-les-Moulineaux

- The e-service that is offered by Issy is on 'e-ticketing'. Announcements of cultural events takes place via internet technology. It requires authentication and qualified signature when e-payment.
- Accepted by
 - Bologna
 - Spain

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Rome

- Rome offers for the pilot that authenticated citizens, who use the service of INSP online access to their data in the INSP database
- Accepted by
 - Bologna
 - Israel

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Israel

- Israel offers three services
 - National Insurance Form, to be signed by on-us cards via not-on-us infrastructure
 - Tourist application, with order to be signed, by not on us cards via not-on-us infrastructure
 - E-voting, with e-authentication to prevent double voting per person, for on-us and not-on-us cards, via on-us and not-on-us infrastructure
- Accepted by
 - Rome
 - Spain

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Sheffield

- Sheffield wants to provide an eID to their citizens to allow them to use different electronic services
 - eVoting
 - Housing Tenants
 - etc.
- Accepted by:
 - To be defined in following weeks

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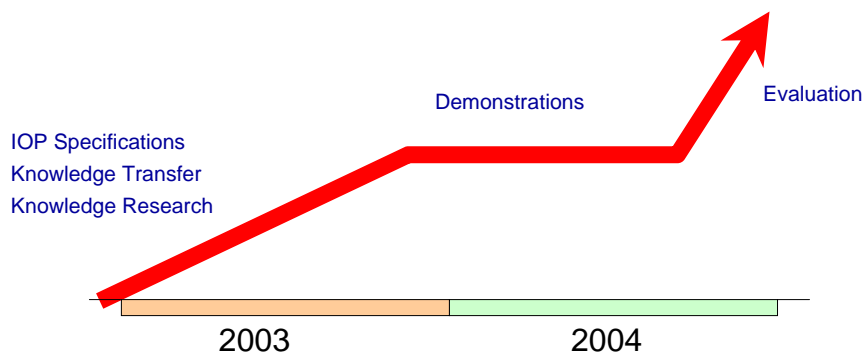
Spain

- Spain makes a browser based document available to formalise denounces, and offers that it will be signed with not-on-us certificate.
- Accepted by
 - Bologna
 - Issy
 - Rome

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How to handle it in eEpoch



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

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