e-ID Interoperability in Europe
Current perspective and some challenges

Detlef Houdeau

eema, March, 16th
1. Key elements for technical interoperability
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   1.2 Working Groups & Organisation
   1.3 Test programmes

2. Examples for EU Programmes
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   2.2 Electronic Tachograph
   2.3 Residence Permit
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   2.5 eID in Public Domain
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3. Conclusion & Outlook
1. Key elements for technical interoperability

- Technical Interoperability
  - Standard and/or Specification
  - Working Group and/or Organisation
  - Crossover Test Programmes
1. Key elements for technical interoperability
1.1 Standards and/or Specification

- Standards & Specifications are defined
e.g. Biometric Passport, w/ ICAO 9303,
  EU-Specification ICAO_BAC / BIG_EAC

- Standard alone maybe defined:
e.g. eEHIC, w/ CEN TC 215

- Specification alone is defined,
e.g. e-Vehicle Registration, w/ EU Regulation
  No 127/2003 (Jan, 24th, 2003)

w/o Standards or Specifications interoperability is not possible!
1. Key elements for technical interoperability
1.2 Working Groups & Organisation

- Standardisation Organisation establishes a Task Force
e.g. Biometric passport, w/ ICAO_NTWG_TF5

- EU Organisation establishes a Working Group
e.g. e-Residence Permit, w/ Brussel Interoperability Group (BIG)

- EU Organisation collect Reference Samples
e.g. Biometric-Passport, w/ Joint Research Centre, Ispra, Italy (EU Unit)

- EU sponsors a Feasibility Study
e.g. eID/eGov crossborder, w/ STORK
### 1. Key elements for technical interoperability

#### 1.3 Test Programmes: e.g. Biometric Passport

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>key driver</td>
<td>ICAO NTWG TF5&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>BIG&lt;sup&gt;2)&lt;/sup&gt;, EU Commission</td>
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<td>scope of interest application level</td>
<td>PA → BAC (BAC/AA)</td>
<td>EAC</td>
</tr>
<tr>
<td>typical reading time</td>
<td>3 … 7 sec (DG1, DG2)</td>
<td>9 … 14 sec (DG1, DG2, DG3,DG14)</td>
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</table>

1) **International Civil Aviation Organisation**, **New Technical Working Group**, **Task Force 5**
2) **Brussels Interoperability Group**, Belgium
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3. Conclusion & Outlook
2. Examples for EU Programmes
2.1 Biometric Passport

- Standard: ICAO_9309_1
- Specification: 28/06/2006*
- Regulation: EC 2252 / 2004
- Interop-Tests: CY 2004 ... 2008
- Issuing States: EU: all 27 MS (since 08/2006) outside EU: 43 States

* Included a Protection Profile
2. Examples for EU Programmes

2.2 Electronic Tachograph

- Standard: –
- Regulation: EC 2135 / 1998
- Interop-Tests: –
- Issuing States: EU: all 27 MS (04/2007)
  outside EU: 5 States
2. Examples for EU Programmes

2.3 Residence Permit

- Standard: ICAO_9303_1
- Specification: 13502/2/07
- Regulation: EC 1030/2002
- Interop-Test: –
- Issuing States:
  - EU: 3 States (today)
  - outside EU: 2 States
<table>
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<tr>
<th>Category</th>
<th>Details</th>
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<tr>
<td>Standard</td>
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<tr>
<td>Specification</td>
<td>2003/127/EC</td>
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<tr>
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<tr>
<td>Interop-Test</td>
<td>-</td>
</tr>
<tr>
<td>Issuing States</td>
<td>EU: 0* (today)</td>
</tr>
</tbody>
</table>

* Tender in Austria in 12/2009
2. Examples for EU Programmes

2.5 eID in Public Domain

- Standard: ICAO 9303_1 & CEN TC 224
- Specification: divers
- Recommendation: 14351/2005
- Interop-Test: STORK (ICT_LSP); BioP@ss
- Issuing States:
  - EU: 8 MS
  - outside EU: 10 States

![eID Portugal]
2. Examples for EU Programmes

2.6 eHealth

- **Standard**
  - eEHIC: CEN TC 215
  - EHR: ISO/IEC 13606

- **Specification**
  - only on eEHIC

- **Regulation**
  - only on eEHIC

- **Interop-Test**
  - epSOS (ICT_LSP)

- **Issuing States**
  - EU: 9 MS
  - outside EU 13 States
2. Examples
2.7 eSignature

- Standard: prEN 14890
- Specification: –
- Regulation: 1999/93/EC
- Interop-Tests: PEPPOL (ICT_LSP)
- Issuing States: EU: 8 MS (03/2010)
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### 3. Conclusion

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<th>Regulation / Recommendation</th>
<th>International Standard / Specification</th>
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<td>e-Tachograph</td>
<td>2135/1998</td>
<td>Spec w/o Standard</td>
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<tr>
<td>e-Passport (eP)</td>
<td>2252/2004</td>
<td>ICAO 9303 &amp; BIG²</td>
<td>Interop Events</td>
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<td>e-Residence Permit (eRP)</td>
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<td>e-European Health</td>
<td>883/04</td>
<td>CEN TC 215</td>
<td>-</td>
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<td>Insurance Card (eEHIC)</td>
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<td>Netc@rs¹</td>
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<td>e-Car-Registration (eCR)</td>
<td>127/2003</td>
<td>Spec w/o Standard</td>
<td>-</td>
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<td>National-eID /- Gov-Service</td>
<td>14351/2005</td>
<td>ICAO 9303</td>
<td>STORK⁰</td>
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<td>eHealth</td>
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<td>ISO 13606 ff</td>
<td>epSOS⁰</td>
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<tr>
<td>eSignature</td>
<td>1999/93/EC</td>
<td>CEN prEN 14890</td>
<td>PEPPOL⁰</td>
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</table>

1) Sponsored by EU Commission

2) **Brussels Interoperability Group**, within Article-6-Committee; EU Commission
3. Conclusion & Outlook

- The EU w/ 27 MS, and 500 Million Citizens is on the way to harmonize cross border services.
- Many EU Units and DG’s are involved in such programs, like JRC, ENISA, DG JFS, DG INFSO, DG Employer, FRONTEX, IDABC, ICT for Government, ICT for Trust & Services.
- A key requirement is technical interoperability.
- Many programs are sponsored by the EU Commission supporting interoperability.
  - More than €100 Million funding has been defined today.
- The security industry should foster international application standards, like ICAO 9303, ISO/IEC 18013, CEN TC 215, support interoperability tests as well as field trial tests and feasibility test.
- A long term cooperation on these programs is requested from the security industry.
Contacts

Detlef Houdeau
Phone: +49 (89) 234 21144
Cell +49 171 55 45 877
e-Fax +49 89 234 955 91 73
e-mail: detlef.houdeau@infineon.com
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