ILO Seafarers Identity Document & The Schengen impact

Porvoo 9

Slovenia 12th May 2006

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Porvoo Agenda

- ILO Seafarers Identity Document
- from legislation to certification
- Porvoo Agenda ?
  - Commonality with the European Citizen card CEN TC224 WG15

ILO Seafarers Identity Document

- What is the ILO
- The need for a new Seafarers ID
- Global Interoperable Challenge

International Labour Organisation

- Specialised Agency of the United Nations
- Created in 1919
- Consensus on legislation by a tripartite structure
  - Governments
  - Employers
  - Labour Unions
- 176 member states
- Geneva
- 186 int. legislations

The need for a new Seafarers ID

- Need to lower risk of forgery & facilitate counterfeit detection

- The Seafarers are amongst the oldest of regulated professions
  - 1681 France loi de Colbert - 1958 ILO convention 108 seafarers identity
- Over 80% of world trade is by sea
- Existing seafarer IDs are paper based documents and lack strong security against fraudulent use and copying
- The new Seafarer ID is a professional identity document not a travel document
  - Physical access (Maritime Port Access control) ship access
  - Vias waiver(right to transit, transfer & repatriation with passport)
  - Recruitment - Improves employment opportunities
- Member States of International Labour Organisation
  - ratify the ILO convention 185 & enact national legislation
  - Issue the Seafarer Identity Document to their seafarers
  - Set up airport & maritime port verification points

Global Interoperable Challenge

- Over 2.1 million seafarers cards to be issued by the individual member states
- Over 64 member states changing
  - national legislation
  - Identity Document issuing process
- Over 50 regional or national projects from States
  - with 11 seafarers to States with over 300 000
  - and from 0 ports to over 70 ports and
  - Sophisticated ICT cultures to almost non-existant
- Avoiding duplicate issuing (nationals & residents)
- Numerous Verification points
  - 2867 Maritime Ports (133 countries)
  - International Airports
  - Replies to queries on suspect IDs 24h/24h
- Need for a multi-vendor interoperable standard based solution in a proprietary solution market

From Legislation to certification

- After September 11th 2001 concern over security of ports and shipping
- March 2002 Revision of ILO Convention 108 (Seafarers Identity) on agenda by request of the IMO
- June 2003 Seafarers Identity Document Convention (revised) 2003 (N°185)
- 2003 ILO special liaison with ISO
- 9th February 2005 Convention 185 entered into force with a transition arrangement for 63 countries (signatories to convention 108) to issue new SIDs
- France, Jordan, Nigeria, Hungary have ratified convention 185
- 15th April 2005 Decision of the Council of Europe
- May 2005 Live demonstrations in Geneva of card issuing with verification and interoperability
- June 2005 ILO ratification of the testing laboratory
- Dec 2005 Ongoing interoperability testing announced

From Legislation to Certification

- Legislation
- Conformance
- Interoperability
- Certification

Legislation
ILO Convention 185

- 18 articles, 9 of which are substantive
- 3 annexes containing:
  - Model for SID
  - Electronic database
  - Minimum manadatory requirements & guidelines for issuance of SIDs
- Facilitated amendment procedure
- Certain Legal obligations for the states are:
  - Compliance to legislation
    - Conformance to standards
  - Monitoring for compliance

Conformance

- Technical Specification
  - 2D Barcode
    - ISO/IEC 15415(2004) & 15438 (2001) PDF 417 2D
  - Biometrics
    - ISO/IEC 19793 template specification
    - ISO/IEC 19794-5 Facial capture and image storage
    - ISO/IEC 19784 BioAPI Biometric Interchange Record
    - ISO/IEC 19785 Common Biometric Exchange Formats
    - All draft standards status october 2003
      - ISO/IEC 19794-2 finger minutiae
      - ISO/IEC 19794-4 image capture
  - SID physical layout
    - ICAO document 9303 MRTD - Part 3 2ndEdition 2002
    - ISO/IEC 7810:2003

Conformance best practice?

- ISO 27000 Security methodology
- ISO 20000 Service Desk management
- WD ISO24713-3 Biometric Application profile for Seafarers
- ISO/IEC 19792
- ISO/IEC 24761
- ISO/IEC 24745
- ISO/IEC 15408
- ISO/IEC 19795- 1,2,4

From Conformance to Interoperability

- Glossary of Terms
  - Conformity Assessment (a.k.a. Conformance Testing) – "activity that provides demonstration that specified requirements relating to a product, process, system, person or body are fulfilled" (SC 37 Standing Document 7)
  - Interoperability – "the ability of different information technology systems and software applications to communicate, to exchange data accurately, effectively, and consistently, and to use the information that has been exchanged"

Interoperability

- ILO required standards. This was a good start
- If ILO had not required conformance testing there could have been 10 products, none of which would have been interoperable
- If ILO had not required interoperability testing, there could have been 7 products, only 2 of which were interoperable
- Now there are 3 interoperable biometric products and all SID systems must use one of them
- Conformance and Interoperability testing are not synonymous and both are important

Certification

- Independent evaluation of compliance with Convention 185
- Well, we're not quite there yet

Global Challenges

- Political will (budgets)
- Perceived High Cost
- National legislation .....takes time
- Lack of a suitable Standard for
  - issuing of Ids
  - the ID document management lifecycle process
- Interoperable Back office infrastructure
  - Exception management (ID damaged, FRR)
  - remote authentication (national boundaries)
- Certification of Auditors (ISO27000 etc)

From Legislation to Certification

- Legislation
- Conformance
- Interoperability
- PROGRAM MANAGEMENT SUPPORT OFFICE for the Seafarer Identity Document MANAGEMENT SYSTEM
- Certification

ILO SID Management System

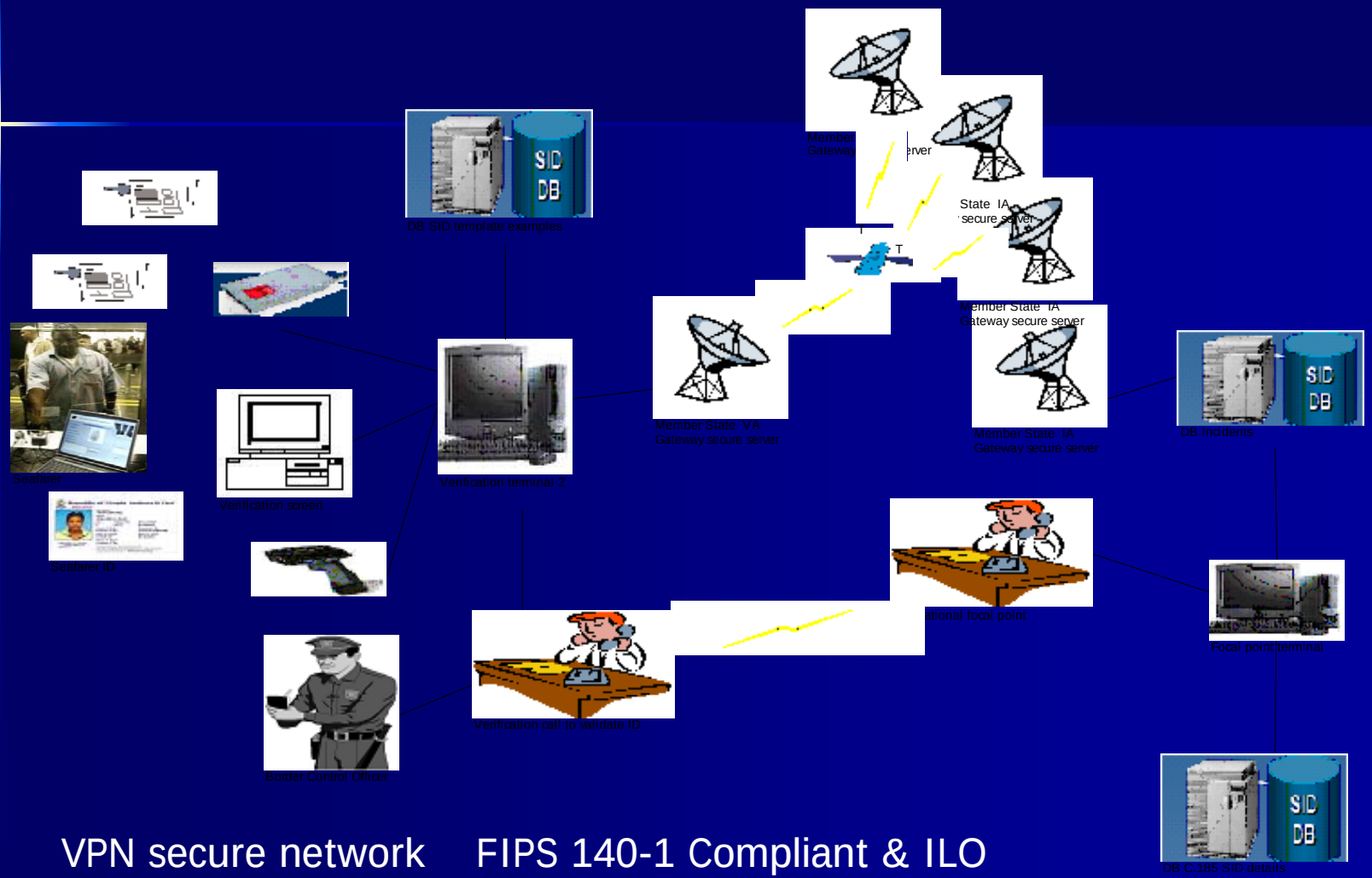
- Korea ready to issue SID and Canada, Indonesia, Nigeria, India and Pakistan to follow shortly
- May 2006
  - Results from 2nd interoperability tests
  - ILO SID Program Management Support Office (PMSO)
    - Process models for full ILO SID Management Lifecycle
    - Examplar ILO SID project with Risk Analysis
    - Generic Systems Architecture with audit trails – co-existance
    - Service Desk security & operations management
    - Audit Guidelines for monitoring for compliance
- October 2006
  - Biometrics UK 2006 interoperability demonstrator on e-passports (Iris, Face, Fingerprint) by the ILO test laboratory
  - Service Desk interoperability demonstrator
  - Procurement document (heuristic)

Proposal for a Porvoo Agenda

(reduce cost and facilitate take-up)

- Commonality between national Ids' (CEN TC224 WG15) & the ILO SID
  - Project Management Support Office? -Virtual ?-
    - Sharing process models?
    - Conformance to Standards?
    - Interoperability testing?
    - Certification?
  - Member State Service Desks (Focal points)?
  - Sharing ID delivery & verification infrastructure?
  - TMN Model framework?
- Professional Identity Documents ?
    - Port workers , transport workers, Airport employees
    - Migrant workers
- European VIS system & SID Visa waiver ?

Model Name: ILO Seafarers Identity Document Systems Design Document - April 2006
Diagram Name: Verification Authority Architecture



VPN secure network FIPS 140-1 Compliant & ILO Convention 185 compliant

ILO Acknowledgements

US General Services Administration Smart Card Handbook

UK Passport Office

Canada, France, Indonesia, Norway

&

3M, Hyundai, Sagem, Steria

&

Thank You Members of the Porvoo group

One way forward for European interoperability ?

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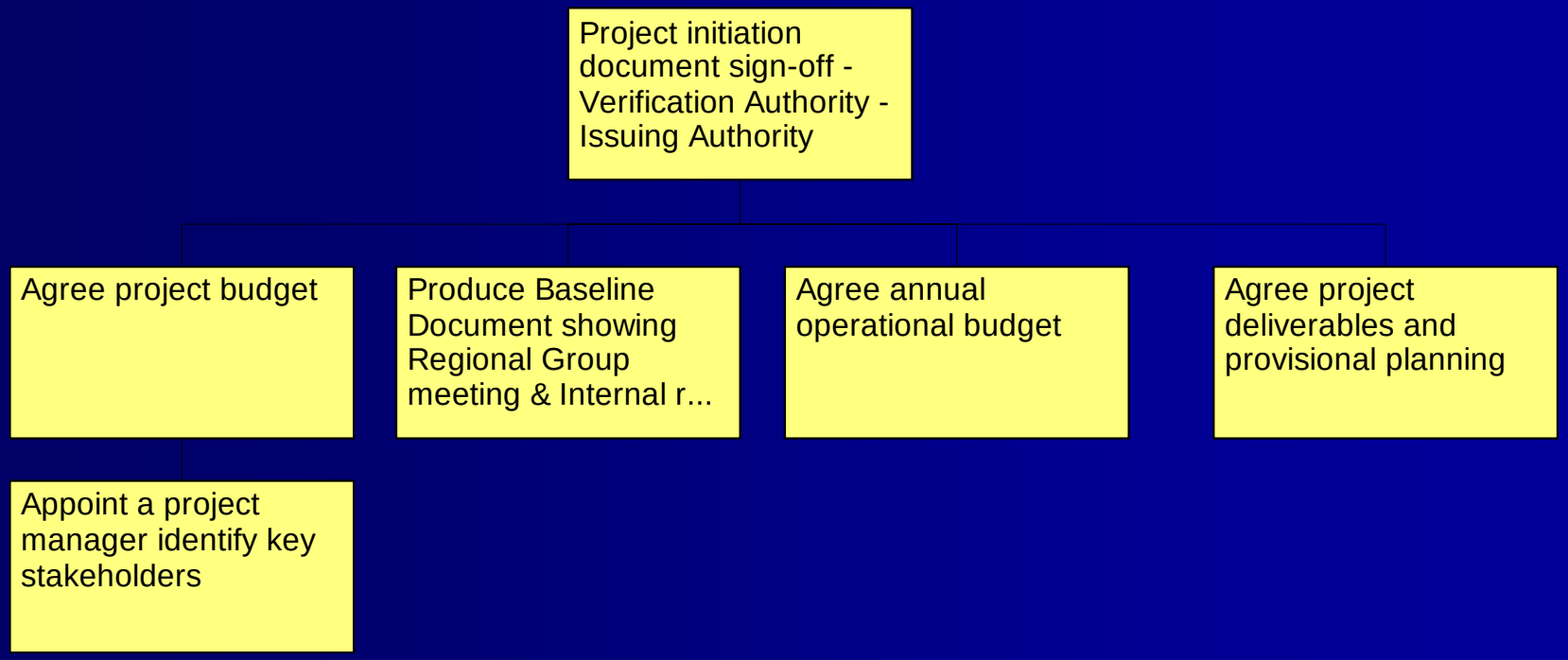
Certification – the Scope Statement

The certification framework defines its field of application, and comprises

- 1. description of the product or service characteristics which are to be controlled
- 2. Values within which certification will be accorded
- 3. Ways in which a classment may be given according to the different functions
- 4. The form and way in which the above information is to be communicated
- 5. methods used in controlling the test or evaluation, of the certified characteristics being measurements and analysis, and which should , where possible, refer to agreed standards….
- 6. The certification organisation's methods of evaluating the products and assessing conformance and interoperability.
- 7. The legal and financial responsibility of the vendor with respect to products and services which are found to be non-conform.

High Level Process Map

Model Name: ILO Seafarers Identity Document Systems Design Document - April 2006
Diagram Name: Project initiation document sign-off - Verification Authority - Issuing Authori...