ISA methodologies supporting the Common Information Sharing Environment for the EU Maritime Domain

Dublin, 21 June 2013

Fernando Dias Marques
Programming Services Director - DGPM
Agenda

- CISE and the COOPP project
- Approach for reaching semantic agreements
- Hands-on experience
- Conclusions
CISE and the COOP project

- **CISE**
  - EU's Common Information Sharing Environment (2020)
  - Involves all EU countries with Maritime Borders
  - Over 400 public authorities within 7 user communities
  - Promote cross-sectoral and cross-border information sharing
  - Lead by DG-MARE
CISE and the COOP project

- CoopP project
  - Contributes to the development of CISE (2013)
  - 31 partners
    - Individual institutions 50
    - Member states 10
    - EU Agencies and international organisations 7
  - Lead by the Finnish Border Guard

- Major outcomes
  - Set of use cases and purposes for information exchange
  - Description of information services
  - Access rights matrix
  - Data definitions sufficient for the information services
  - Contribution to the economic imapct analysis of maritime surveillance
CISE and the COOP project

• WP5 - Specification of common data formats and semantics
  – Inputs and constraints
    • Duration 12 months (Standard agreements UML – 4 months)
    • Preliminary set of data elements (+400)
    • Preliminary set of use cases (8)
    • Several standards, systems and specifications (+100)
  – Expected outputs
    • UML, RDF/RDFS, XML/XSD (data specifications)
  – Resources
    • Experts from 11 countries
    • Mostly knowleadgeable in UML
    • Different levels of knowledge and professional maturity
    • 5 face-to-face meetings (not limited to but more would hardly be productive)
Approach for reaching semantic agreements

- ISA Process and Methodology
  - Co-developed by the EC and W3C
  - Proven, tested and used
  - Tailored by to meet the needs of the COOPP
Hands-on experience

- Customizing the process
  - Subcontract the specifications in RDF/RDFS and XML/XSD
  - Iterative and incremental approach (4 + 3 iterations)
  - Regular virtual meetings and collaborative tools
  - Work in parallel
  - 2 subgroups, 1 review group
  - Involve members of the endorsement group in the review group
  - Promote presentations from relevant data models during face-to-face meetings
Hands-on experience

• Customizing the methodology
  – CORE data entities selection
  – Distributed search
  – Centralized analysis and definition
  – Collaborative enhancement
  – Emerging shared data model
Conclusions

• Very challenging project
• Sound framework
• The devil is in the details (what / how)
Questions
ISA methodologies supporting the Common Information Sharing Environment for the EU Maritime Domain

Dublin, 21 June 2013

Fernando Dias Marques
Programming Services Director - DGPM