WCO Data Model Applications – Trader Perspectives

Sue Probert
Many Different Trader Interests

• Declarants
  – Importers and Exporters
  – Carriers
  – NVOCCs (Non-Vessel Owning Common Carrier)

• Agents
  – Freight Forwarders
  – Third and Fourth party logistics providers
  – Customs Interface service providers

• Software System Providers
  – Import/export software systems providers
  – Customs, Cross-Border Agency and Single Windows software providers
  – Web-based cross-border solutions
Increasing Challenges and New Opportunities

• Revised Kyoto Convention and new national and regional legal requirements place ever greater responsibility on importers/exporters and carriers for the provision and accuracy of their declared data
• Similarly cross-border International Conventions are developing electronic equivalents for trader required certificates, Licences etc. and are increasingly encouraging electronic rather than paper submissions
• Direct filing efficiencies
• Ever increasing data collection requirements in quantity and timing
• Agents challenged to adjust to the changes and enter new markets
• Emerging technologies
• Single Windows single submission interfaces requiring more coordinated data management
UN/CEFACT International Supply Chain Reference Model

- **Buy**
  - Prepare for export
  - Commercial Procedures:
    - Establish sales contract
    - Order goods
    - Advise on delivery
    - Request payment

- **Ship**
  - Export
  - Transport Procedures:
    - Establish transport contract
    - Collect, transport and deliver goods
    - Provide waybills, Goods receipts, etc.

- **Pay**
  - Prepare for import
  - Financial Procedures:
    - Provide credit rating
    - Insurance
    - Execute payment
    - Issue statements

- **Regulatory Procedures**:
  - Obtain im/export licenses etc.
  - Provide Customs Declarations
  - Provide cargo Declarations
  - Apply security measures
  - Clear goods

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The UN/CEFACT International Supply Chain Data Entity Diagram

Supply Chain

Transport

WCO DM
The Paper World of Today based on the UN Layout Key

Trade Documents – Quotation, Order, Invoice etc.

Materials Management Documents – Despatch Advice, Pick List, Packing List etc.

Transport Documents – Bill of Lading, Shipping Instructions etc.

Customs Documents – Export, Import, Transit Declarations, Cargo Reports etc.

Other Regulatory Documents – Cert of Origin, DGN etc.

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View of a Future Electronic World through Single Windows

- Trade
- Materials Management
- Transport
- Payment
- Insurance
- Customs
- Other Govt. Agencies

B2B
B2G
G2G

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What does the WCO DM offer Traders

- Global language to talk to Customs and Partner Border Agencies
- Common global approach across cross-border Agencies
- Harmonised procedures
- Harmonised and object modelled data structures
- Hierarchical reusable message structures
- Aligned Information Package methodology
- More common interfaces will be possible globally following increased adoption by multiple agencies
WCO Data Model Applications – Example Trader Use Cases

Sue Probert
Single Window Use Case

**e-Standards and their Customization**

- **Standard Developing Organization**
  - **e-Standard**
  - **Sectoral Profiles**
  - **Industry Profiles**
  - **National Profiles**
  - **Sectoral Profiles**
  - **Company Profiles**

**Use Case**
- **National Single Window Project**
  - **WCO Data Model**
  - Profiled by National Single Windows Lead Agency
  - Profiled by National Governmental Agency
  - Profiled by e.g. International Carrier

**Customization directions**

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Canonical Data Model Use Case

**Central Canonical Data Model**
(data structures, common library, code lists, business term definitions plus value-added language translations, fiscal rules etc.)

**Trader B2B Formats**
- XML
- EDIFACT
- X12

**WCO DM**
- Declarations
- Cargo Reports

Mapping
Repository object view

An ERP Use Case

SAP GTSCore

- Data Model
  - SAP GTS Universal Customs Model

- EDI Standard
  - IDoc // CCECUS02

SAP GTSCountries

- EDI Standard
  - Deutsche Codeliste; 8.4.1
  - UN D.96B S3; ATLAS; 8.4.0

- EDI Guide
  - AES 2.1 Guide (1. Berichtigung)

Data Model
- SAP GTS UCM Export Guide DE

Logical mapping

Technical mapping

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