Introduction to the WCO Data Model

Geneva, 28 June 2016
STDF Seminar on Electronic Sanitary and Phytosanitary (SPS) Certification

CROSS-BORDER TRANSACTIONS ON THE FAST TRACK
WCO Revised Kyoto Convention

» DM Business Process is based on RKC
» RKC: Blueprint for Modern Customs Administration)
» International Convention on the Simplification & Harmonization of Customs Procedures 1999
» 3.11, 7.2: Use of UN Layout Key and use of international standards for electronic information exchange;
» 3.18: Lodging of supporting documents by electronic means;
» 3.21: Lodging of goods declaration by electronic means
WCO Data Model

- **History**
  - Initiated by the G7 in 1996
  - To expedite export and import process between themselves by:
    - Simplifying data requirement
    - Eliminate redundancy of information requirement
    - Improve data quality
  - Transferred to the WCO to gain international exposure

- **Since version 3 covered Single Window Requirement in additions to Customs.**
  - Further developed and maintained by the Data Model Project Team
  - Meets regularly 3-4 times a year, Next meeting will be in September 2016
  - DMPT is an Open meeting for WCO Member Administrations, IOs, IGOs, as well as private sector
  - DMPT underway the development activities in the Session (offline) and in the intersession through online facility.
Library of regulatory data requirement that consists of standardized and reusable components, to meet the procedural and legal needs of Customs and its partner cross-border regulatory agencies controlling export, import and transit transactions.
WCO Recommendations

On the use of WCO Data Model:

» **Adopt the WCO Data Model** for the identification and definition of all cross-border regulatory data requirements related to pre-arrival/pre-departure formalities and procedures for import, export and transit.

» **Use the WCO data elements**, their names and reference numbers (WCO ID’s), the data element descriptions, the character representations (including the suggested code lists) in describing and composing electronic messages.

» **Use the standard electronic messages** described in the WCO Data Model in Government to Government and Business to Government /Government to Business electronic messages.

On the dematerialization of Supporting Document:

» identify supporting documents that are normally required to accompany the cargo and goods declarations and examine the need for those documents for Customs clearance with a view to eliminating them;

» discontinue the requirement of presenting supporting documents in hard copy, if they have already been presented in electronic form;

» process the release and clearance of cargo based only on electronic declaration and automated verification;

» enable automated Customs clearance systems to automatically verify information contained in dematerialized supporting documents where such information is accessible electronically in:
  - Other government agencies’ databases
  - Single Window environments (and Cargo Community Systems)
  - Private repositories.
Top Benefits

- Reduces costs to trade by simplifying data requirements
- Improves reporting and compliance by improving the quality of data.
  - Meets requirements of several international conventions.
  - Is aligned with widely used international standards
- Enables Single Window implementation
  - Can be used as the basis for Data Harmonization
  - Includes data requirements from Customs, food, agriculture, environment & marine safety, as well as SPS
  - Provides an electronic messaging solution for Single Window
Single Window Architecture Model

Functional distribution

Integrated Service
- Customs
- Agricultural
- Environmental
- Transport
- SPS
- Finance

Interfaced Service
- Environmental
- Customs
- Standards
- SPS
- Agricultural
- Transport

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WCO Data Model Coverage: Regulatory Space
## WCO Data Model Building Block

<table>
<thead>
<tr>
<th>Syntax:</th>
<th>GOVCBR</th>
<th>XML</th>
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<tbody>
<tr>
<td>Structure:</td>
<td>Classes</td>
<td>Information Package</td>
</tr>
<tr>
<td>Content:</td>
<td>Maximum Dataset</td>
<td>International Code lists</td>
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<tr>
<td>Context:</td>
<td>Business Process Model</td>
<td></td>
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</table>
WCO Data Model: regulatory data requirement library that consist of standardized and reusable components: as it is doesn’t serve any specific function.

Information Package: Logical organization of standardized and reusable component of DM library to serve more specific purpose.

Derived Information Package: Derived from legislation / convention.
Information Packages

NATIONAL IMPLEMENTATIONS

EU CDM
SAD AEI IMO UPU MSW

VETERINARY
E-SPS CODEX

Declaration Response LPCO Intergov

WCO Data Model
e-Certificate Model Overview

HEADER
- Certificate
- Consignment

LINE ITEM
- Consignment Item
- Commodity
e-Certificate Model
e-Certificate Use Case

Exporter

- Apply Certificate
- Declare Exportation
- Send Certificate
- Share Certificate Id

SPS Agency
- Country of Origin

Customs
- Country of Origin

Importer

- Send e-Certificate
- Declare Importation
- Lodge Supporting Document

Single Window
- E-Cert Hub
- Use e-Certificate
- Supporting Document

E-Cert Hub

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In the package

- **Maximum Dataset**
  - List of unique data elements

- **Model Structures**
  - Tree represent the overall structure of data elements of the WCO Data Model
  - WCO Id, name and format representation
  - Mapping to xml tag name
  - Mapping to GOVCBR data elements

- **UML Class Diagram**

- **XML Schemas**
  - Without notes
  - Enriched with notes

- **GOVCBR MIG**

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Latest Development and Global Adoption Status

- **Version 3.6:**
  - Released in May 2016
  - Includes EU Customs Data Model Derived Information Package
  - Report of conformance study of the Import and Export data of ASYCUDA
  - Member Driven Quality Control Process
  - Mapping of FAL Form 1 on General Declaration

- **Version 3.7**
  - Study on Master Data requirements
  - Further on study on ASYCUDA based systems conformance to the WCO Data Model, specifically on Transit data requirements.
  - Technical Maintenance of the IMO FAL Compendium, Model Harmonization
  - Study on XML Interoperability.
  - Further development of Business Process Model of Information Packages.


Click Global Adoption of the WCO Data Model
To Summarize …

- Toward Standardized and harmonized regulatory interface
  - As opposed to complex redundant and time consuming process
  - Seamless regulatory coordination through the use of ICT
  - Transparent complexities in the background / back office
  - Integrated regulatory decision making process
Thank you

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