Introduction to the WCO Data Model
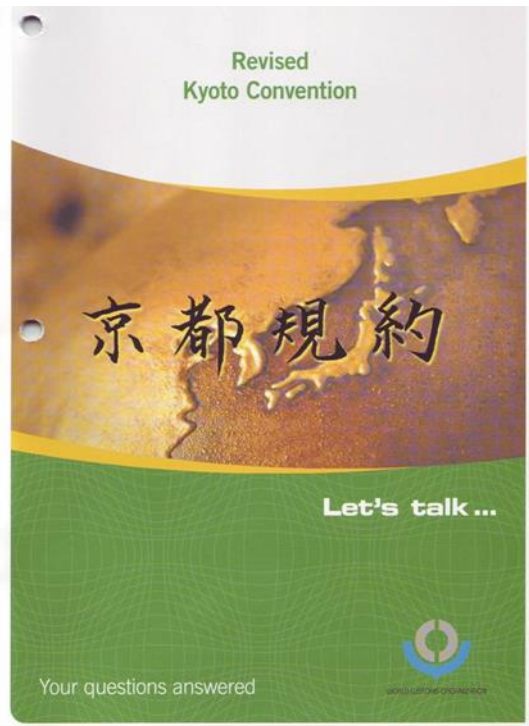
Geneva, 28 June 2016

STDF Seminar on Electronic Sanitary and Phytosanitary (SPS) Certification

CROSS-BORDER TRANSACTIONS

ON THE FAST TRACK

WCO Revised Kyoto Convention

Revised Kyoto Convention

京都規約

Let's talk ...

Your questions answered

- » 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

o ## 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

o ## 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.
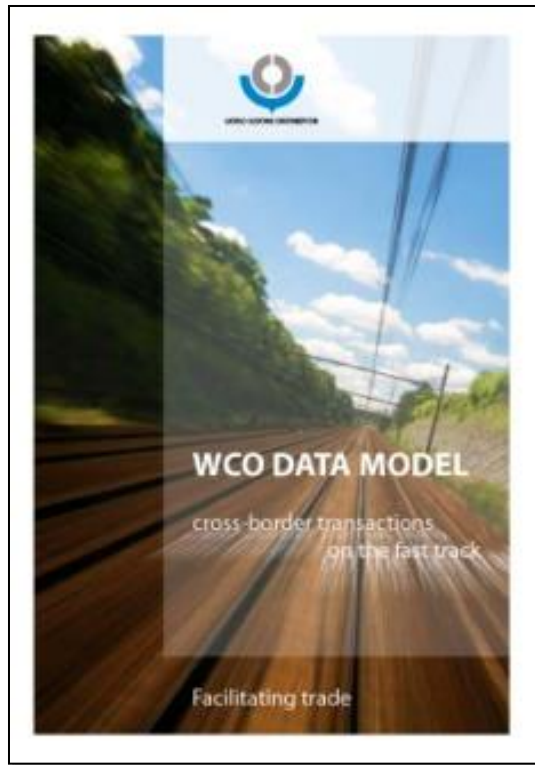
WCO Governing Bodies

Permanent Technical Committee (**PTC**)

Information Management Sub Committee (**IMSC**)

Data Model Project Team (**DMPT**)

WCO Data Model

» 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.

WCO Data Model:

o 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
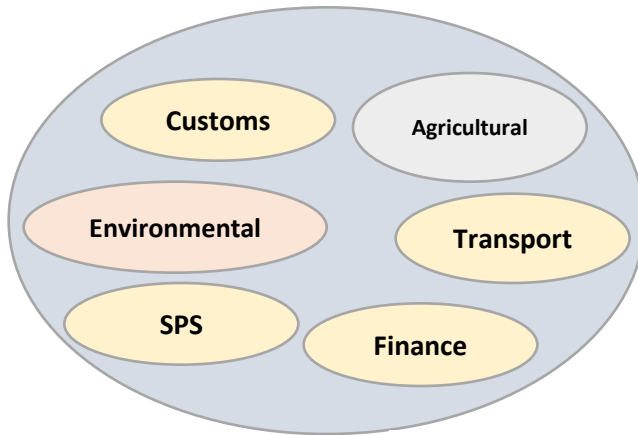
Single Window Operator

Responsibility includes running IT systems

Interfaced Service

- Environmental
- Customs
- Standards
- SW
- Agricultural
- SPS
- Transport
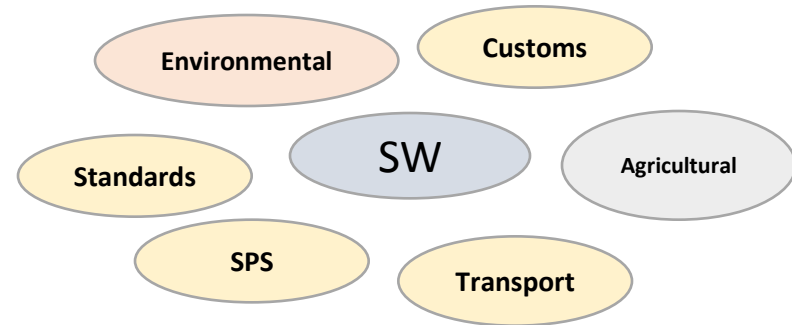
Single Window Orchestrator

Responsibility for standards and interface specifications

High ◄————— Extent to which Lead Agency will operate IT systems —————► Low

Common or centralized IT systems for CBRAs

Separate or distributed IT systems for CBRAs

WCO Data Model Coverage: Regulatory Space

Government: Government Agency → Partner Government Agencies

G2G

B2G

G2B
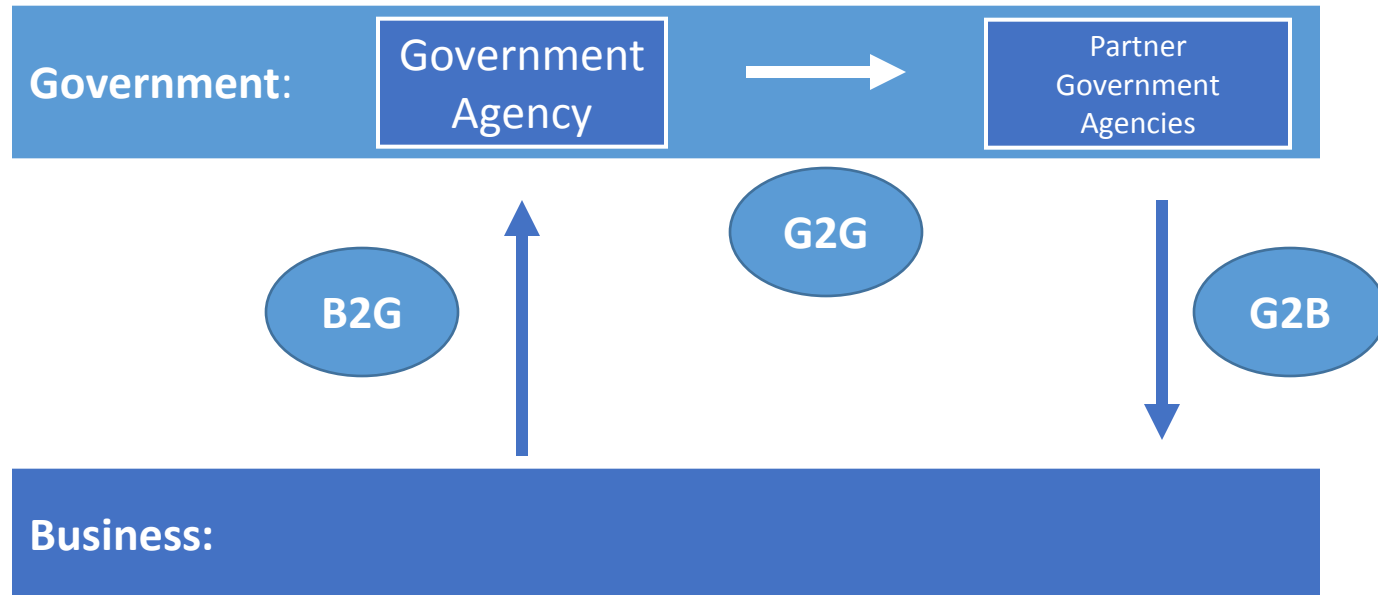
Business:

WCO Data Model Building Block

Syntax:	GOVCBR	XML
Structure:	Classes	Information Package
Content:	Maximum Dataset	International Code lists
Context:	Business Process Model	

Information Package Concept

Standardized and Reusable Components

S — Super classes
C — Classes
L — Code lists
P — Processes
A — Attributes
D — Core Data Types
N — Identifiers Schemes

Rules

Base IP
WCO Base Information Packages

Derived IP
Derived Information Packages
Logo(s) here

My IP
My Information Package
Logo(s) here

Methods
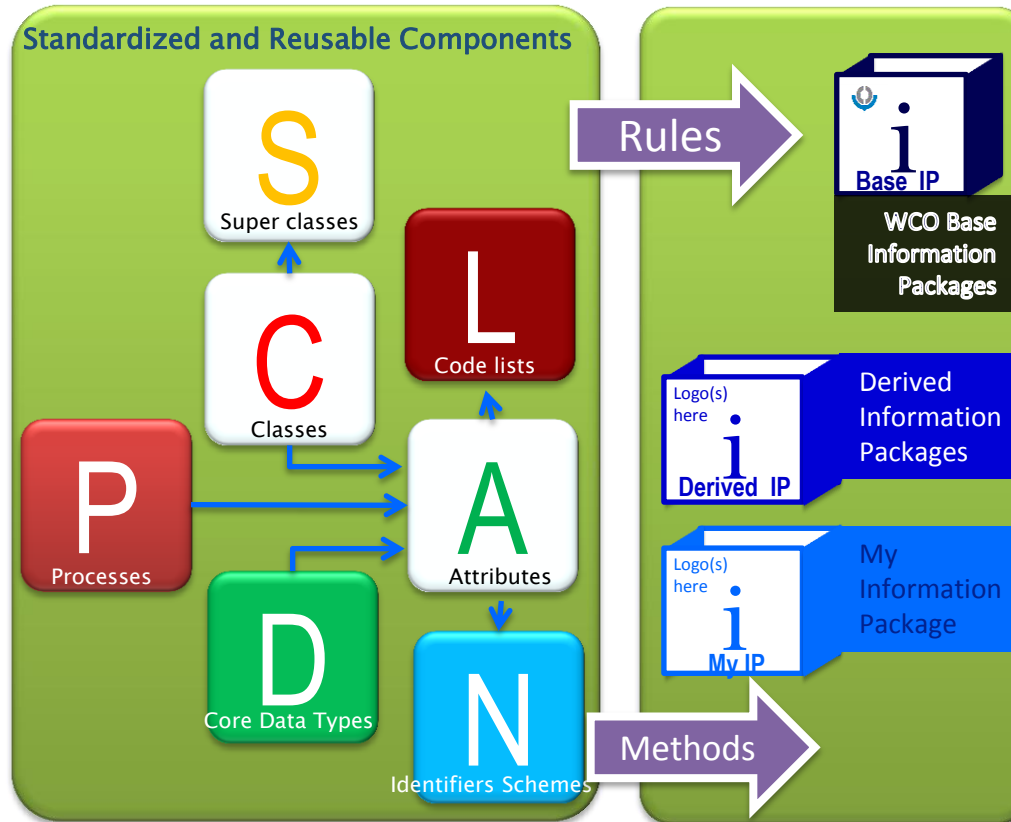
» WCO Data Model: regulatory data requirement library that consist of standardized and reusable components: as it is doesn't serve any specific function

» 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
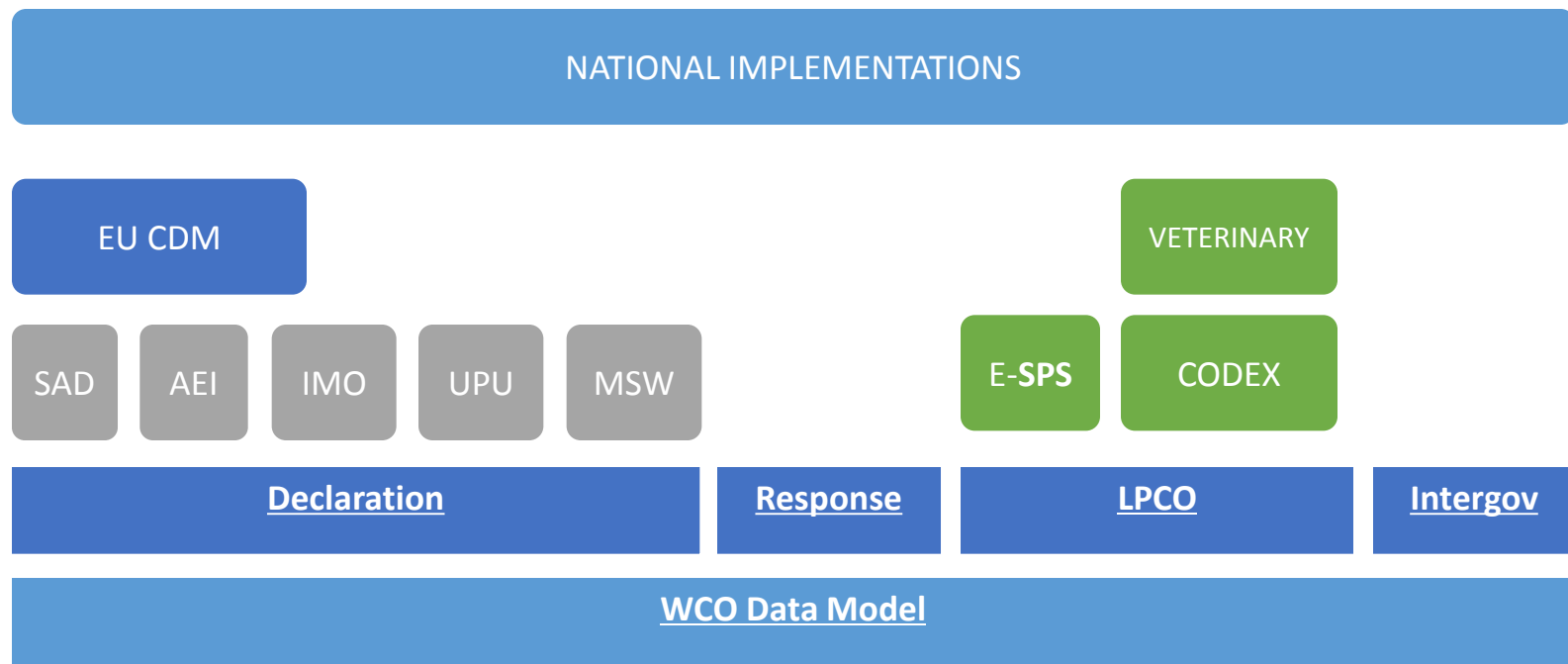
e-Certificate Model Overview

e-Certificate Model

e-Certificate Use Case
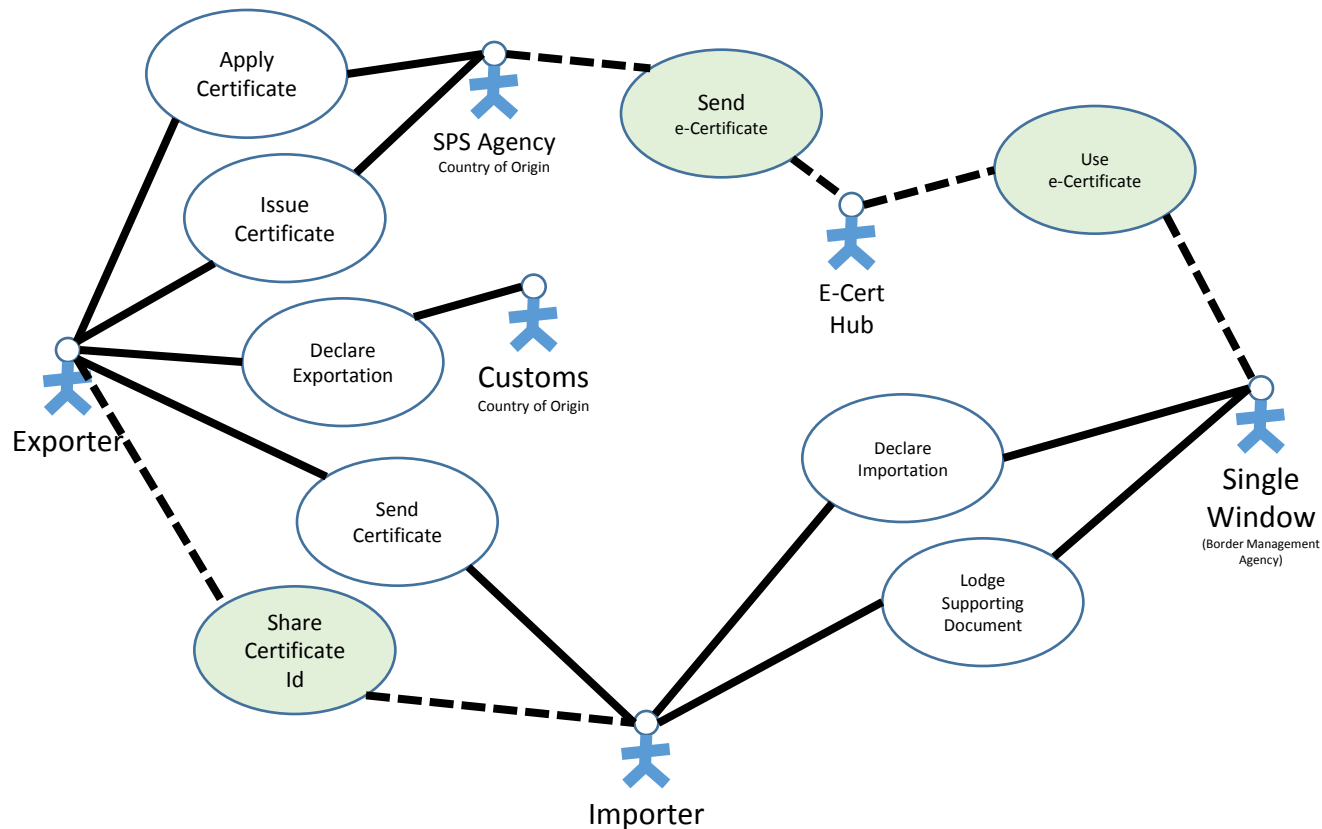
In the package

o **Maximum Dataset**

»   List of unique data elements

o **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

o **UML Class Diagram**

o **XML Schemas**

»   Without notes
»   Enriched with notes

o **GOVCBR MIG**

Latest Development and Global Adoption Status

o 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

o 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.

o Navigate to: http://www.wcoomd.org/en/topics/facilitation/instrument-and-tools/tools/pf_tools_datamodel.aspx

o Click Global Adoption of the WCO Data Model

Status	S	P	M	IP	NA	Total
Number of Countries	72	49(51)	12(15)	0(2)	47	180
% of total Number	40.0	27.2	6.7	0.0	26.1	100.0

To Summarize …

o 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

tejo.kusuma@wcoomd.org

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