

WCO Customs Data Model

Thomas Morawietz Technical Attaché e-commerce and Customs IT affairs

The views expressed in this paper are the views of the author and do not necessarily reflect the views or policies of the Asian Development Bank (ADB) or its Board of Directors, or the governments they represent. ADB does not guarantee the accuracy of the data included in this paper and accepts no responsibility for any consequences of their use. Terminology used may not necessarily be consistent with ADB official terms.

Outline of Presentation

Introduction

Business Process and Information Modelling

 The Electronic Message Specifications (EDIFACT and XML)
WCO Data Model Version 3.0
The Unique Consignment Reference (UCR)



Introduction (1)

Allocation within the Framework of Standards

- Customs to Customs Pillar Standard 1 "Integrated Supply Chain Management (ISCM) – Annex I;
 - Submission of data for Export-, Import- and Cargo declarations (1.3/1.3.1/1.3.2/1.3.3);
 - Interoperability of Customs IT systems.



Introduction (2)

- Origin of the WCO Customs Data Model
 - Effort to standardise, harmonise and reduce Customs data requirements;
 - Initiated by the seven largest economies (G7) in 1996;
 - Mandate to reduce the amount of data to meet Customs requirements;
 - Improve flow of goods across international borders and reduce industry costs.



Introduction (3)

Transfer to the WCO

- Broaden application to all WCO members;
- Consultation with international organisations involved in Transport & Trade;
- Incorporate other WCO standardisation instruments (Revised Kyoto Convention, ICT Guidelines and Unique Consignment Reference)



Introduction (4)

- Benefits of the WCO Customs Data Model
 - Enables different systems to work together;
 - Helps to create safe and secure borders;
 - Offers premium procedures;
 - Contributes to rapid release;
 - Eliminates redundant and repetitive data;
 - Reduces the amount of data & compliance costs;
 - Promotes greater Government co-operation.



Introduction (5)

Scope of the WCO Customs Data Model

- Import, export and transit of Cargo, Goods, Means of Transport and Crew;
- no transactions of military goods, goods transported under the ATA Convention and postal consignments with a CN document;
- no information to conduct a Customs Post Audit Control.



Introduction (6)

- Building blocks of the WCO Customs Data Model
 - Standardised and harmonised maximum data sets;
 - Business Process and Information Models;
 - Message Implementation Guidelines (MIG);
 - Codes;



Modelling (1)

Modelling objectives

- Establish a basis for designing and developing information systems and messages;
- Analysis & optimisation of business processes;
- To bridge the gap between business experts and system designers/developers.



Modelling (2)

Modelling standards

- UMM UN/CEFACT Modelling Methodology;
- UML Unified Modelling Language.



Modelling (3)

Overview about the various models

- Simple Business Process Model;
- Use Case Diagram;
- Use Case Description;
- Activity Diagram;
- <u>Class Diagram</u>.



Message Specifications (1)

Brief overview about the Message Specifications

- Complete set of Message Specifications for EDIFACT enabling the development of the various messages, describing the exact usage of the data sets;
- For XML only generic implementation principles.



Message Specifications (2)

- Components of the EDIFACT Message Implementation Guidelines
 - <u>Branching diagram</u> (Sequence of segments in a message);
 - <u>Table of contents</u> (Logical order of data elements in a message);
 - <u>Segment details</u> (EDIFACT mapping of the WCO Customs Data Model).



Data Model Version 3 (1)

Scope of Version 3.0 (1)

- Will begin the complex process of incorporating so-called "Other Governmental Agencies" (OGA) data;
- Scope is "single window" domain;
- Incremental process to begin with agriculture, SPS, human health, Basel Convention (hazardous waste);
- Relates to border clearance;
- DMR processing and analysis will refine the details at TBG4/DMPT;



Data Model Version 3 (2)

□ Scope of Version 3.0 (2)

- Includes response message;
- More transit requirements (e.g. TIR);
- Relationship with UN/CEFACT;
- Data Maintenance Rules.

Unique Consignment Reference (1)

- Allocation within the Framework of Standards
 - Customs to Customs Pillar Standard 1 Integrated Supply Chain Management (ISCM) – Annex 1 (1.2.5);
 - Recommended as a general control measure.

Unique Consignment Reference (2)

Brief overview

- For Customs purposes;
- For all international consignments;
- Used in ALL relevant communications;
- Used as an access key;
- Unique, nationally and internationally;
- Issued early in the supply chain;
- Using ISO 15459-1or
- Equivalent proprietary solutions (e.g. FEDEX, UPS, DHL)

Thank you for your attention

Thomas Morawietz Technical Attaché thomas.morawietz@wcoomd.org