



WORLD CUSTOMS ORGANIZATION
ORGANISATION MONDIALE DES DOUANES
WCO Data Model Official Distributor
Approved WCO Distributor

WCO DM Single Windows Customisation Examples

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CITES Permit: An Example of the Reuse of the WCO LPCO Base Information Package (BIP)

XML Schema guideline
XML Example
CITES WCO ePermit Data Model
Class diagram
Structure
XML Schema structure
XML Schema guideline
XML Example
Mapping between CITES ePermit UN/CEFACT data model and WCO ePermit data model
CITES GOVCBR UN/CEFACT ePermit MIG
Branching diagram
Structure
Segment details
Example
Mapping between CITES ePermit WCO data model and GOVCBR ePermit MIG

CITES WCO ePermit Data Model

Class diagram	Structure	XML Structure	XML Guideline	XML Example
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Cardinality	WCO ID	Element/Attribute
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CITES Permit

0..1	X000	<i>Document Effective Date</i>
0..1	275	<i>Document Expiration (Expiry) Date</i>
1..1	017	<i>Message function, coded</i>
1..1	D014	<i>Document reference number</i>
1..1	D011	<i>Document issuing date</i>
0..1	D012	<i>Document issuing place, coded</i>
0..1	D034	<i>Document issuing place</i>
0..1	D032	<i>Document name</i>
1..1	D033	<i>Document original indicator</i>
1..1	D013	<i>Document name, coded</i>

CITES Permit is a Restriction of the WCO LPCO Base Information Package

Main/LPCO/expiration

Declaration; 3.30

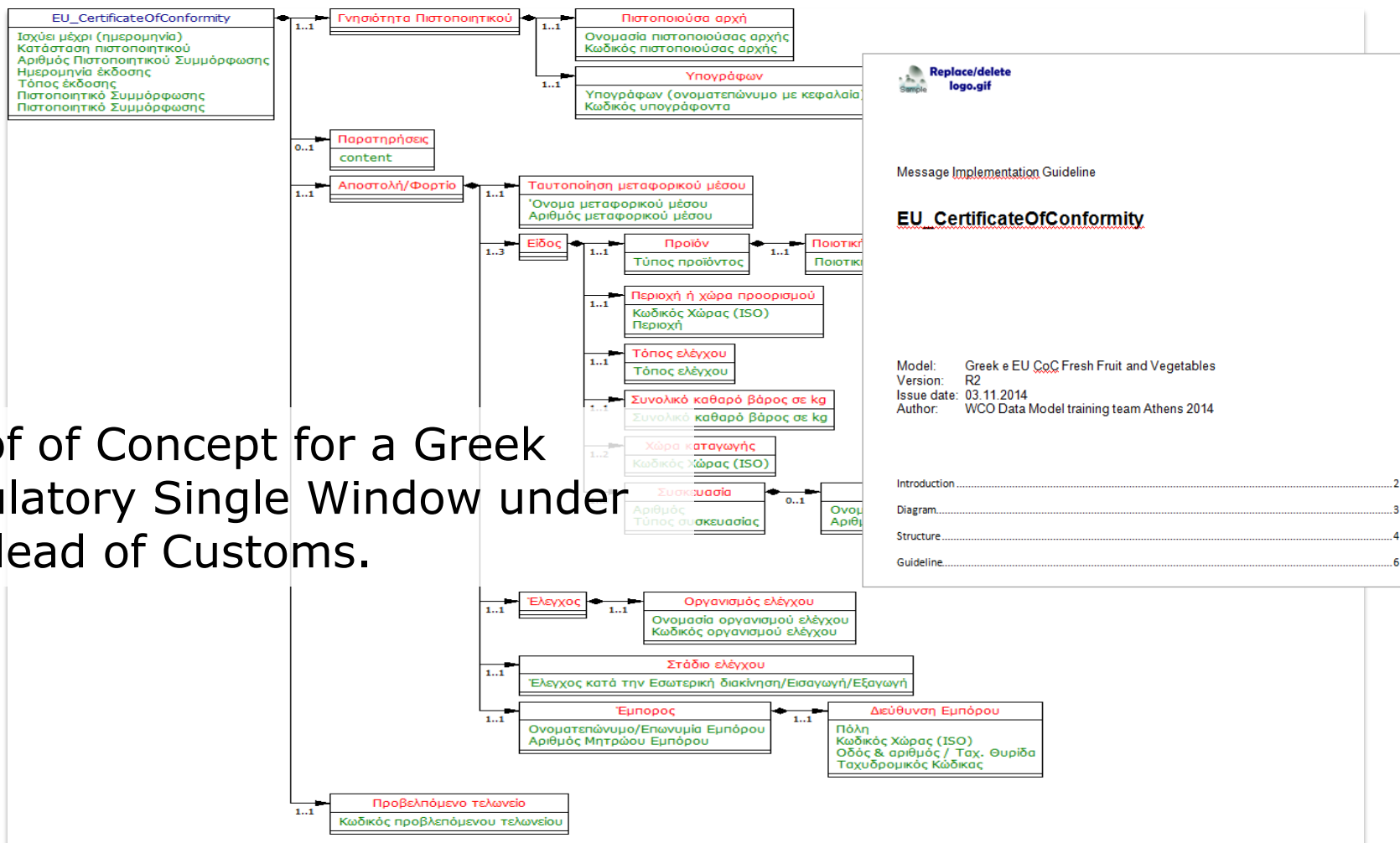
Main

☒ LPCO

- ☐ acceptance
- ☐ cancellation
- ☐ category
- ☐ effective
- ☒ expiration
- ☐ function
- ☐ functionalReference
- ☐ identification
- ☐ issue
- ☒ issueLocationIndicator
- ☒ issueLocationName
- ☐ issuingParty
- ☐ location
- ☒ name

Attribute	Notes	Enhanced	Children
Cites			
Box		0, 2	
Name			
WCO GOVCBR Mapping ID			
&Id		5334	
Remark			
WCO			
WCO ID		275	
WCO NAME		Document Expiration (Exp	
WCO DESC		The expiry date of the doc permit, certificate)	
WCO Class Name		LPCO	
WCO Format		n8	
Core Data Type		Date Time	

Applying international standards in Greece - Task Force for Greece (TFGR) and UNECE project



The Greek Proof Concept of EU CoC – Language Customisation

M Greek e EU CoC Fresh Fruit and Vegetables; R2	
▷	B LPCO; R2
▷	M XSD Data types
▷	M WCO Library; R2
▷	M Declaration; R2
▲	Main
▲	C EU Certificate of Conformity - Greece
▷	C Παρατηρήσεις
▲	C Αποστολή/Φορτίο
▲	C Ταυτοποίηση μεταφορικού μέσου
▷	A Όνομα μεταφορικού μέσου
▷	A Αριθμός μεταφορικού μέσου
▲	C Είδος
▷	C Προϊόν
▲	C Περιοχή ή χώρα προορισμού
▷	A Κωδικός Χώρας (ISO)
▷	A Περιοχή
▲	C Τόπος ελέγχου
▷	A Τόπος ελέγχου
▲	C Συνολικό καθαρό βάρος σε kg
▷	A Συνολικό καθαρό βάρος σε kg
▷	C Χώρα καταγωγής
▷	C Συσκευασία
▷	C Consignor
▷	C Έλεγχος

The EU Single Window Proof of Concept – Reuse of WCO DM LPCO Information Package for two EU Agricultural Certificates

M COI - Certificate of Organic Inspection; 1; 0

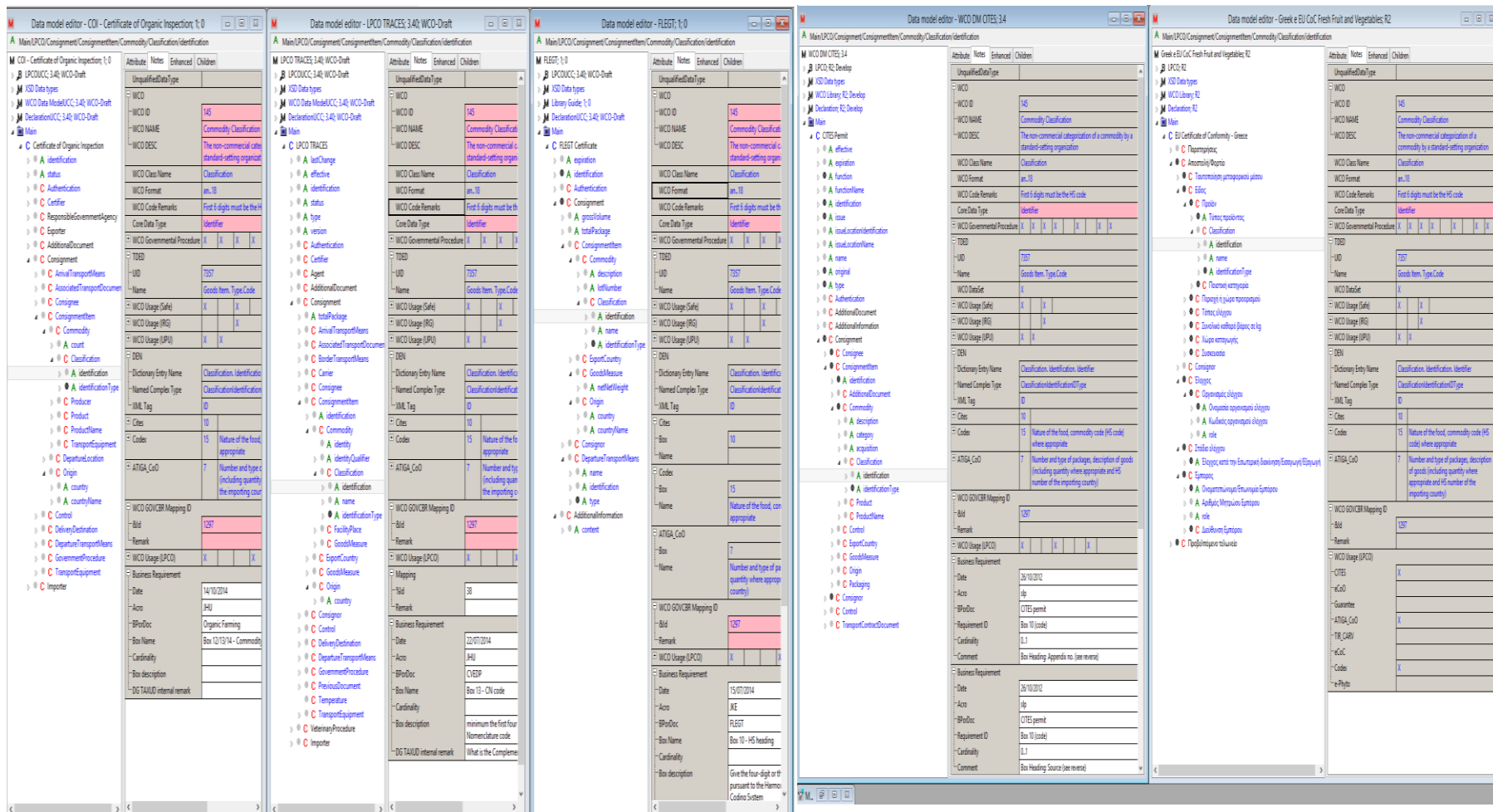
- ▶ **B** LPCOUCC; 3.40; WCO-Draft
- ▶ **M** XSD Data types
- ▶ **M** WCO Data ModelUCC; 3.40; WCO-Draft
- ▶ **M** DeclarationUCC; 3.40; WCO-Draft
- ▶ **Main**
 - ▶ **C** LPCO
 - ▶ **A** identification
 - ▶ **A** status
 - ▶ **C** Authentication
 - ▶ **C** Certifier
 - ▶ **C** ResponsibleGovernmentAgency
 - ▶ **A** name
 - ▶ **A** identification
 - ▶ **C** Address
 - ▶ **C** Exporter
 - ▶ **A** name
 - ▶ **A** identification
 - ▶ **A** role
 - ▶ **A** type
 - ▶ **C** Address
 - ▶ **C** AdditionalDocument
 - ▶ **A** identification
 - ▶ **A** type
 - ▶ **C** Consignment
 - ▶ **C** ArrivalTransportMeans

Data model	Note definitions	Language
Linked objects External standards		
CommonSchemaName	LPCO_DS	
CommonSchemaNamespace	urn:wco:datamo	
UdtSchemaProperties		
%StandardizationStatus	standard	
%SchemaAgency	UN/CEFACT	
%MajorVersion	14	
%MinorVersion	0	
%SchemaDate	29 January 2014	
%CopyrightNotice		
Specification		
Spec ID		
Spec Name		
Spec Desc		
Spec Comment		
WCO		
WCO ID		
WCO NAME		
WCO DESC		
WCO Format		
Report comment		

M FLEGT; 1; 0

- ▶ **B** LPCOUCC; 3.40; WCO-Draft
- ▶ **M** XSD Data types
- ▶ **M** Library Guide; 1; 0
- ▶ **M** DeclarationUCC; 3.40; WCO-Draft
- ▶ **Main**
 - ▶ **C** LPCO
 - ▶ **A** expiration
 - ▶ **A** identification
 - ▶ **C** Authentication
 - ▶ **C** Consignment
 - ▶ **A** grossVolume
 - ▶ **A** totalPackage
 - ▶ **C** ConsignmentItem
 - ▶ **C** Commodity
 - ▶ **A** description
 - ▶ **A** lotNumber
 - ▶ **C** Classification
 - ▶ **C** ExportCountry
 - ▶ **C** GoodsMeasure
 - ▶ **C** Origin
 - ▶ **C** Consignor
 - ▶ **C** DepartureTransportMeans
 - ▶ **A** name
 - ▶ **A** identification
 - ▶ **A** type
 - ▶ **C** AdditionalInformation

Examples Summary: Five Single Windows certificates as WCO DM LPCO profiles



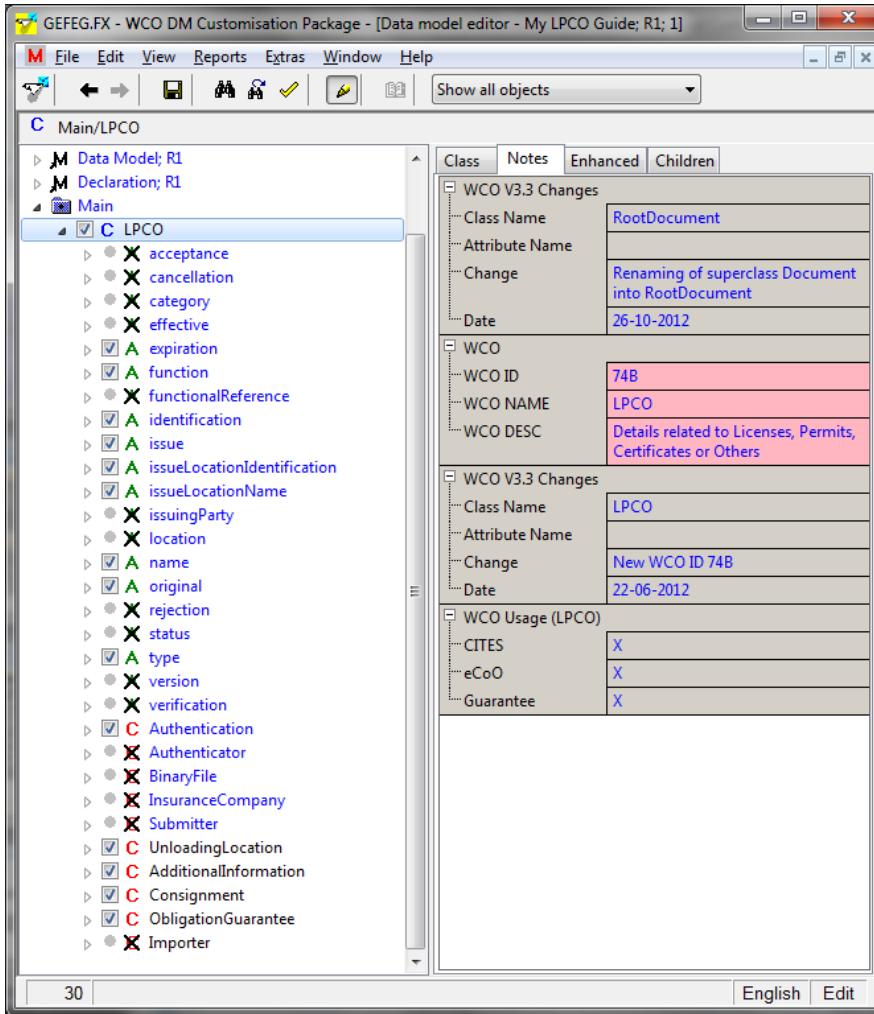
The image displays five screenshots of the WCO DM LPCO profiles, each showing a different certificate type. The profiles are structured as follows:

- Window 1: Data model editor - COI - Certificate of Organic Inspection; 1:0**
 - Attributes: WCO ID, WCO NAME, WCO DESC, WCO Class Name, WCO Format, WCO Code Remarks, Core Data Type, WCO Governmental Procedure, TSD, UD, WCO Usage (Safe), WCO Usage (RG), WCO Usage (LPU), DEN, ATIGA CoD, WCO GOVCR Mapping D, WCO Usage (LPCO), Business Requirement, Date, JHU, BPODoc, Box Name, Cardinality, Box description, DG TAUD internal remark.
 - Values: WCO ID: 145, WCO NAME: Commodity Classification, WCO DESC: The non-commercial sales standard setting organist, WCO Class Name: Classification, WCO Format: Jan.10, WCO Code Remarks: First 6 digits must be the HS code, Core Data Type: Identifier, WCO Governmental Procedure: X, TSD: 1237, UD: Goods Item_TypeCode, WCO Usage (Safe): X, WCO Usage (RG): X, WCO Usage (LPU): X, DEN: Classification, Identification, Identifier, ATIGA CoD: 7, WCO GOVCR Mapping D: 1237, WCO Usage (LPCO): X, Business Requirement: 14/10/2014, Date: 14/10/2014, JHU: Organic Farming, Box Name: Box 12/13/14 - Commodity, Cardinality: Box 12-13, Box description: minimum the first four Nomenclature code, DG TAUD internal remark: What is the Commodity.
- Window 2: Data model editor - LPCO TRACES; 3:40; WCO-Draft**
 - Attributes: WCO ID, WCO NAME, WCO DESC, WCO Class Name, WCO Format, WCO Code Remarks, Core Data Type, WCO Governmental Procedure, TSD, UD, WCO Usage (Safe), WCO Usage (RG), WCO Usage (LPU), DEN, ATIGA CoD, WCO GOVCR Mapping D, WCO Usage (LPCO), Mapping, Business Requirement, Date, JHU, BPODoc, Box Name, Cardinality, Box description, DG TAUD internal remark.
 - Values: WCO ID: 145, WCO NAME: Commodity Classification, WCO DESC: The non-commercial sales standard setting organist, WCO Class Name: Classification, WCO Format: Jan.10, WCO Code Remarks: First 6 digits must be the HS code, Core Data Type: Identifier, WCO Governmental Procedure: X, TSD: 1237, UD: Goods Item_TypeCode, WCO Usage (Safe): X, WCO Usage (RG): X, WCO Usage (LPU): X, DEN: Classification, Identification, Identifier, ATIGA CoD: 7, WCO GOVCR Mapping D: 1237, WCO Usage (LPCO): X, Mapping: 38, Business Requirement: 22/07/2014, Date: 22/07/2014, JHU: OVEP, Box Name: Box 12-CN code, Cardinality: Box 12-CN code, Box description: minimum the first four Nomenclature code, DG TAUD internal remark: What is the Commodity.
- Window 3: Data model editor - FLEGT; 1:0**
 - Attributes: WCO ID, WCO NAME, WCO DESC, WCO Class Name, WCO Format, WCO Code Remarks, Core Data Type, WCO Governmental Procedure, TSD, UD, WCO Usage (Safe), WCO Usage (RG), WCO Usage (LPU), DEN, ATIGA CoD, WCO GOVCR Mapping D, WCO Usage (LPCO), Business Requirement, Date, JHU, BPODoc, Box Name, Cardinality, Box description.
 - Values: WCO ID: 145, WCO NAME: Commodity Classification, WCO DESC: The non-commercial sales standard setting organist, WCO Class Name: Classification, WCO Format: Jan.10, WCO Code Remarks: First 6 digits must be the HS code, Core Data Type: Identifier, WCO Governmental Procedure: X, TSD: 1237, UD: Goods Item_TypeCode, WCO Usage (Safe): X, WCO Usage (RG): X, WCO Usage (LPU): X, DEN: Classification, Identification, Identifier, ATIGA CoD: 7, WCO GOVCR Mapping D: 1237, WCO Usage (LPCO): X, Business Requirement: 15/07/2014, Date: 15/07/2014, JHU: FLEGT, Box Name: Box 10 - HS heading, Cardinality: Give the four-digit or if pursuant to the Harmonized Coding System, Box description: Give the four-digit or if pursuant to the Harmonized Coding System.
- Window 4: Data model editor - WCO DM CITES; 3:4**
 - Attributes: WCO ID, WCO NAME, WCO DESC, WCO Class Name, WCO Format, WCO Code Remarks, Core Data Type, WCO Governmental Procedure, TSD, UD, WCO Usage (Safe), WCO Usage (RG), WCO Usage (LPU), DEN, ATIGA CoD, WCO GOVCR Mapping D, WCO Usage (LPCO), Business Requirement, Date, JHU, BPODoc, Box Name, Cardinality, Box description.
 - Values: WCO ID: 145, WCO NAME: Commodity Classification, WCO DESC: The non-commercial sales standard setting organist, WCO Class Name: Classification, WCO Format: Jan.10, WCO Code Remarks: First 6 digits must be the HS code, Core Data Type: Identifier, WCO Governmental Procedure: X, TSD: 1237, UD: Goods Item_TypeCode, WCO Usage (Safe): X, WCO Usage (RG): X, WCO Usage (LPU): X, DEN: Classification, Identification, Identifier, ATIGA CoD: 7, WCO GOVCR Mapping D: 1237, WCO Usage (LPCO): X, Business Requirement: 26/10/2012, Date: 26/10/2012, JHU: CITES permit, BPODoc: Box 10 (code), Requirement ID: Box 10 (code), Cardinality: 0.1, Box description: Box Heading: Appendix no. (see reverse).
- Window 5: Data model editor - Greek e EU CoC Fresh Fruit and Vegetables; R2**
 - Attributes: WCO ID, WCO NAME, WCO DESC, WCO Class Name, WCO Format, WCO Code Remarks, Core Data Type, WCO Governmental Procedure, TSD, UD, WCO Usage (Safe), WCO Usage (RG), WCO Usage (LPU), DEN, ATIGA CoD, WCO GOVCR Mapping D, WCO Usage (LPCO), Business Requirement, Date, JHU, BPODoc, Box Name, Cardinality, Box description.
 - Values: WCO ID: 145, WCO NAME: Commodity Classification, WCO DESC: The non-commercial sales standard setting organist, WCO Class Name: Classification, WCO Format: Jan.10, WCO Code Remarks: First 6 digits must be the HS code, Core Data Type: Identifier, WCO Governmental Procedure: X, TSD: 1237, UD: Goods Item_TypeCode, WCO Usage (Safe): X, WCO Usage (RG): X, WCO Usage (LPU): X, DEN: Classification, Identification, Identifier, ATIGA CoD: 7, WCO GOVCR Mapping D: 1237, WCO Usage (LPCO): X, Business Requirement: 26/10/2012, Date: 26/10/2012, JHU: CITES permit, BPODoc: Box 10 (code), Requirement ID: Box 10 (code), Cardinality: 0.1, Box description: Box Heading: Appendix no. (see reverse).

What are the lessons?

- WCO DM LPCO provides a global basis for developing customized Single Windows single consignment certificates
- WCO DM LPCO can therefore be used as a global semantic reference model to encourage interoperability
- Several additional requirements to the WCO DM LPCO have been identified and incorporated into Version 3.5
- The WCO Data Model in-built Customization Method has been used and proven
- Pan-European alignment for each document is needed including national extensions, comments, translations
- Business expert people without any prior knowledge of the eBusiness and WCO standard world were able to develop documents very easily and quickly because of the reuse

Exercise: My Information Package



Major Steps:

- Which WCO DM BIP do you want to reuse? (LPCO, SAD, Declaration, etc)
- Choose the appropriate base in the GEFEG.FX WCO Data Model and create a new model guide
- Identify and activate the business objects from your document in the WCO Data Model Guide
- Customize: cardinality, length, codes of data objects
- Describe: how to use your business objects in Notes
- Use the inherited template to produce reports and documentation of your customised data