



WORLD CUSTOMS ORGANIZATION
ORGANISATION MONDIALE DES DOUANES

WCO Data Model Customisation Techniques

Sue Probert
SEPIAeb Ltd

Customisation Tasks

- **Restriction of data model structures**
to remove those not required for use in national implementations
- **Addition of usage notes**
for language translations, references to national legislation or message specific business rules etc.
- **Refinement of code values**
for language translations, inclusion of national codes or restricted code lists



Simple effective use of WCO Data model

„I choose
only the
data
elements I
need in my
defined WCO
usage!“



WCO Data Model

Declaration name,
coded

Office of
declaration, coded

Total gross weight

Total invoice amount

My WCO Usage

✓ Declaration name,
coded

Office of
declaration, coded

✓ Total gross weight

✓ Total invoice amount

It really is that simple!



Localized Usage - Cardinality

The screenshot displays two instances of the GEFEG.FX 6.1 SP1 - Professional+ data model editor. The left window, titled 'WCO Data Model; 3.20; 09-09-2011', shows a tree view of the 'Declaration' model with various elements like 'issue', 'issuingParty', and 'function'. The right window, titled 'NZ TSW Export Dec Model; 1; 0', shows a similar tree view but with some elements marked as 'X' (e.g., 'issue', 'issuingParty'). Both windows show a detailed view of the 'function' element. In this view, the 'MinOccurs' and 'MaxOccurs' fields are circled in red. The 'MaxOccurs' field is set to 1 in both. The 'Class' field in the right window is set to 'DocumentFunctionCode (WCO Data)'. The 'Original value' column shows the default values for 'MinOccurs' (0) and 'MaxOccurs' (1).



Localized Usage – Code Restrictions

The screenshot displays two instances of the GEFEG.FX 6.1 SP1 - Professional+ software. The left window, titled 'Data model editor - WCO Data Model; 3.20; 09-09-2011', shows a tree view of data models under 'Main/DataModels/DeclarationModel/DeclarationModel/Declaration/function/Code. Content'. The right window, titled 'Data model editor - NZ TSW Export Dec Model; 1; 0', shows a similar tree view under 'Main/DataModels/DeclarationModel/DeclarationModel/Declaration/function/Code. Content'. Both windows feature a table with columns 'Code', 'Co...', and 'Name'. A red circle highlights the 'Code' column in both tables. The 'Code' column contains values such as 'c 1', 'c 2', 'c 3', 'c 4', 'c 5', 'c 6', 'c 7', 'c 8', 'c 9', 'c 10', 'c 11', 'c 12', 'c 13', 'c 14', 'c 15', 'c 16', 'c 17', 'c 18', 'c 19', 'c 20', 'c 21', 'c 22', and 'c 23'. The 'Name' column contains descriptions such as 'Cancellation', 'Addition', 'Deletion', 'Change', 'Replace', 'Confirmation', 'Duplicate', 'Status', 'Original', 'Not found', 'Response', 'Not processed', 'Request', 'Advance notification', 'Reminder', 'Proposal', 'Cancel, to be reissued', 'Reissue', 'Seller initiated change', 'Replace heading section on', 'Replace item detail and sur', 'Final transmission', and 'Transaction on hold'. The 'Attribute name (EN)' and 'Description' fields at the bottom of each window are also visible.



Localized Usage – National Notes

GEFEG.FX 6.1 SP1 - Professional+

File Edit View Reports Extras Window Help

Show all objects

Data model editor - WCO Data Model; 3.20; 09-09-2011

Main/DataModels/DeclarationModel/DeclarationModel/Declaration/authentication

Attribute	Notes	Enhanced	Children
WCO ID	104		
WCO NAME	Authentication		
WCO DESC	Proof that a document has been authenticated indicating where appropriate the authentication party		
WCO CLASS	Declaration		
WCO FORMAT	an..35		
EDifact	AUT.9280		
Code remarks	User codes		
Core Data Type	Text		
Procedure			
IM	X		
EX	X		
CRI	X		
CRE	X		
CONV	X		
TRT	X		
RES			
EDIFACT Mapping			
&Id	340		
Remark			
StructureStatus			
IM	X		
EX	X		
CRI	X		
CRE	X		
CONV	X		
TRT	X		
RES			
NZTSW Message Usage			
ANA	X		
OCR	X		
IMPORT	X		
EXPORT	X		
CRE	X		
ANL	X		
OCR	X		
EXCISE	X		
TRANSIT	X		
RES			

Data model editor - NZ TSW Export Dec Model; 1; 0

Main/DataModels/DeclarationModel/DeclarationModel/Declaration/authentication

Attribute	Notes	Enhanced	Children
EDIFACT Mapping			
&Id	340		
Remark			
NZTSW Name	Authentication		
NZTSW Status	M		
NZTSW Business Rule			
Name			
Description	Must be transmitted to state the authentication result for the declaration		
StructureStatus			
IM	X		
EX	X		
CRI	X		
CRE	X		
CONV	X		
TRT	X		
RES			
NZTSW Message Usage			
ANA	X		
OCR	X		
IMPORT	X		
EXPORT	X		
CRE	X		
ANL	X		
OCR	X		
EXCISE	X		
TRANSIT	X		
RES			

Localized Usage – Language Notes

Composition	Notes	Enhanced	Children
WCO			
WCO ID	SC5		
WCO NAME	TransportMeans		
WCO DESC			
WCO			
WCO ID	15A		
WCO NAME	BorderTransportMeans		
WCO DESC	Details of the means of transport crossing the border of the Customs territory		
WCO Association	goods carried by	goods carried by	carried by moves on
eCoO	4		
WCO Usage (LPCO)		X	X X X X X X
Business rule	Name or identifier must be used depending on the mode of means of transport.		
GR			
name	Ταυτοποίηση μεταφορικού μέσου		
description			
comment	box 6		
Business rule	'Ενα μέσο μεταφοράς ανά Πιστοποιητικό. Only one means of transport per Certificate.		
Remark	Προσθήκη του τύπου του μέσου μεταφοράς είναι απαραίτητη. Type of means of transport is required.		

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
 - ▷ **C** Στάδιο ελέγχου
 - ▷ **A** Έλεγχος κατά την Εσωτερική διακίνηση/
 - ▷ **C** Έμπορος
 - ▷ **C** Προβλεπόμενο τελωνείο
 - ▷ **A** Κωδικός προβλεπόμενου τελωνείου