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Working Party on Customs Questions affecting Transport

Informal Ad hoc Expert Group on Conceptual and Technical aspects of Computerization of the TIR Procedure

Eleventh session Geneva, 29 January 2007 Item 2 (c) of the provisional agenda

ACTIVITIES OF THE INFORMAL AD HOC EXPERT GROUP

World Customs Organisation transit data model

Note by the secretariat*

A. BACKGROUND

1. As the Expert Group may recall, the secretariat actively participates in the elaboration of version 3 of the World Customs Organisation (WCO) transit data model. This latest version of the data model will be devised on the basis of the previous version, which, for the transit part of the data model, only encompasses the requirement of the European Community common transit and in particular the New Computerized Transit System (NCTS). The modifications to the existing data model should be brought to the WCO in the form of Data Maintenance Requests (DMR).

* The UNECE Transport Division has submitted the present document after the official documentation deadline.

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- 2. This document is organized as follows:
 - Chapters B and C present the particularities of the TIR and WCO data models.
 - Chapter D highlights the main differences between the current version of the WCO transit data model and the requirements of the current TIR system as well as those of the eTIR system.
 - Chapter E contains further considerations.

B. TIR DATA MODEL AND DATA ELEMENTS

3. The eTIR class diagram presented in Annex 1 is built on the basis of the one presented in document ECE/TRANS/WP.30/GE.1/2007/2 and includes the relevant data elements listed in Annex 3 of the Reference Model contained in document ECE/TRANS/WP.30/GE.1/2006/7. The eTIR class diagram is articulated around 3 main classes (in gray): the guarantee, the consignment and the TIR operation.

C. WCO TRANSIT DATA MODEL AND DATA SETS

4. At the last session of the Data Model Project Team (DMPT), a sub group of the Information Management Sub-Committee (IMSC), the transit sub group has identified the transit data sets and organized them according to the classes defined in the general WCO data model. The table in Annex 2 presents all data sets used in the current transit data model, organized by classes and with the relevant references to the United Nations Trade Data Elements Directory (UNTDED) classification. Annex 3 contains version 2 of the transit data model.

D. DIFFERENCES BETWEEN THE DATA MODELS

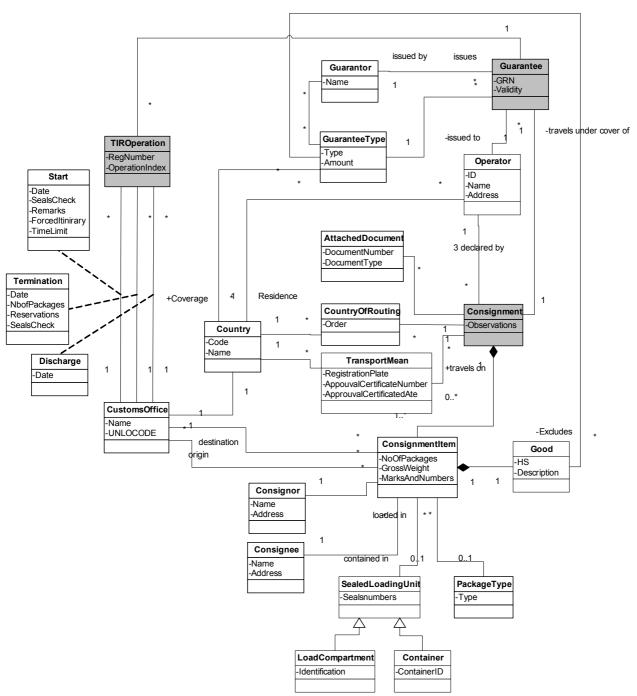
- 5. Major differences between the two data model are due to differences in their scope. Where the WCO data model aims at modelling Business to Government (B2G) data exchanges, in particular the declaration submission (possibly also G2B in the next version of the data model since response messages are in scope), the eTIR data model additionally depicts information exchanged between Customs (G2G). As a consequence, all information related to the TIR operations, which is mainly exchanged among Customs authorities, is missing from the WCO data model. Since the G2G information exchange is not in scope of version 3 of the WCO data model, it seems unnecessary to propose any modifications related to those differences between the models.
- 6. With regard to the guarantee part of the models, it is obvious that the eTIR class diagram provides more details regarding the guarantee modelling. This is due to the fact that the guarantee information is only partly transmitted with the declaration. The rest of the guarantee part of the eTIR class diagram is aimed at being used for the guarantee registration and guarantee checks by Customs authorities. Therefore, it might be preferable to keep the differences between the two models in view of the different scopes they have.

- 7. The consignment part of the model is the one that will be used to submit a declaration and therefore it requires alignment with the WCO standards. The main differences are:
 - The "attached documents" class is linked at the level of the consignment in the eTIR class diagram whereas it is linked at the level of the "ConsignmentItem" in the WCO data model. There might be a need to also request its inclusion at a higher level.
 - The certificate of approval number and date of vehicles is missing form the WCO data model. Their inclusion might have to be requested.
 - The complete list of countries making up the expected itinerary of the transport (CountryOfRouting) is missing from the WCO. Its inclusion might have to be requested.
 - The "TransitDestination" class allows to specify a single destination Customs office for the whole Consignment whereas in the eTIR class diagram "ConsignmentItems" can have different Customs office of destination. An update might have to be requested.
 - It is not clear if the data set 202 in the "GoodsConsignedPlace" class (Place or country whence consigned, coded) would be suited to store the Customs offices of departure for the different "ConsignemntItems". A clarification as well as the addition of a "TransitDeparture" might have to be requested.

E. FURTHER CONSIDERATIONS

8. The Expert Group may wish to discuss which of these differences should lead to modification requests of the WCO data model. The secretariat will then submit DMR's to the DMPT in order to encompass the TIR requirements into the next version of the WCO transit data model.

Annex 1 eTIR class diagram



Annex 2 WCO data sets used in the transit data model version 2

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
003	Additional document reference number	Identifier of a document providing additional information.	AdditionalDocument	1004	Document.Identifier	an35	
170	Additional document type, coded	Code specifying the name of an additional document.	AdditionalDocument	1001	Document.Type.Code	an3	National codes. EDIFACT codes available.
105	Free text	Free text field available to the message sender for information.	AdditionalInformation	4440	FreeText.Text	an512	
225	Additional statement text	Description of an additional statement	AdditionalInformation	4440	FreeText.Text	an512	
226	Additional statement, coded	Coded form of an additional statement.	AdditionalInformation	4441	FreeText.Code	an17	User codes
239	Street and number/P.O. Box	Specification of the postal delivery point such as street and number or post office box.	Address	3042	PostalService.DeliveryPoint.Text	an35	
241	City name	Name of a city.	Address	3164	Address.City.Text	an35	
242	Country, coded	Identification of the name of the country or other geographical entity as specified in ISO 3166 and UN/ECE Rec 3	Address	3207	Country.Identifier	a2	ISO 3166-1 2-alpha code
243	Country sub- entity name	Name of a country subdivision.	Address	3228	Country.Subdivision.Text	an35	

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
244	Country sub- entity identification	Code specifying the name of a country subdivision.	Address	3229	Country.Subdivision.Identifier	an9	ISO 3166-2 2- alpha code or user codes
245	Postcode identification	Code specifying a postal zone or address.	Address	3251	Address.Postcode.Identifier	an9	National codes
160	Identification of means of transport crossing the border	Name to identify the means of transport used in crossing the border.	BorderTransportMeans	8212	TransportMeans.Identifier.Text	an35	Sea: Vessel name
175	Nationality of means of transport crossing the border, coded	Nationality of the active means of transport used in crossing the border, coded.	BorderTransportMeans	8453	TransportMeans.RegistrationNation ality.Identifier	a2	ISO 3166-1 2- alpha code
183	Mode/type of means of transport crossing the border, coded	Means and mode of transport used for crossing the border, coded.	BorderTransportMeans	8179	TransportMeans.Type.Code	an4	UN/ECE Recommendati on 28
138	Brief cargo description	Plain language description of the cargo of a means of transport, in general terms only.	Commodity	7004	Consignment.SummaryDescription. Text	an256	
145	Tariff code number (Customs)	Code specifying a type of goods for Customs, transport, statistical or other regulatory purposes (generic term).	Commodity	7357	GoodsItem.Type.Code	an12	First 6 digits must be the HS code
234	Sensitive goods code	Codes for goods presenting increased risks of fraud in the course of a transit procedure in accordance with national law.	Commodity			n2	User codes
051	Consignee name	Name [and address] of party to which goods are consigned.	Consignee	3036	Party.Name.Text	an35	
052	Consignee, coded	Identifier of party to which goods are consigned.	Consignee	3039	Party.Identifier	an17	International codes (e.g. DUNS, EAN) or user codes

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WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
071	Consignor - name	Name [and address] of the party consigning goods as stipulated in the transport contract by the party ordering transport.	Consignor	3036	Party.Name.Text	an35	
072	Consignor, coded	To identify the party consigning goods as stipulated in the transport contract by the party ordering transport.	Consignor	3039	Party.Identifier	an17	International codes (e.g. DUNS, EAN) or user codes
001	Declaration name, coded	Code specifying the name of a document.	Declaration	1001	Document.Type.Code	an3	EDIFACT codes
002	Declaration reference number	Reference number identifying a specific document.	Declaration	1004	Document.Identifier	an35	
017	Message function, coded	Code indicating the function of a document.	Declaration	1225	Document.Function.Code	n2	EDIFACT codes
022	Declaration issuing date	Date at which a declaration was issued and when appropriate, signed or otherwise authenticated.	Declaration	2001	Date.Date.DateTime	n8 (CCYYMMDD)	
065		To identify a location at which a declaration is lodged.	Declaration	3225	Location.Identifier	an11	UN/LOCODE (an5) + user code (an6), or user code (an11)
082	Declaration issuing place, coded	Place at which a declaration was issued and when appropriate, signed or otherwise authenticated	Declaration	3411	Document.IssueLocation.Identifier	an11	UN/LOCODE (an5) + user codes (an6)
131	Total gross weight	Weight (mass) of goods including packaging but excluding the carrier's equipment for a declaration.	Declaration	6092	DocumentDeclaredGrossWeight.M easure	n11,3 (Floating delimiter with maximum decimals as defined)	
227	Number of seals	To specify the number of seals affixed.	Declaration	6061	Quantity.Quantity	n4	
228	Total number of items	Count of the total number of goods items within a declaration	Declaration	6061	Quantity.Quantity	n5	

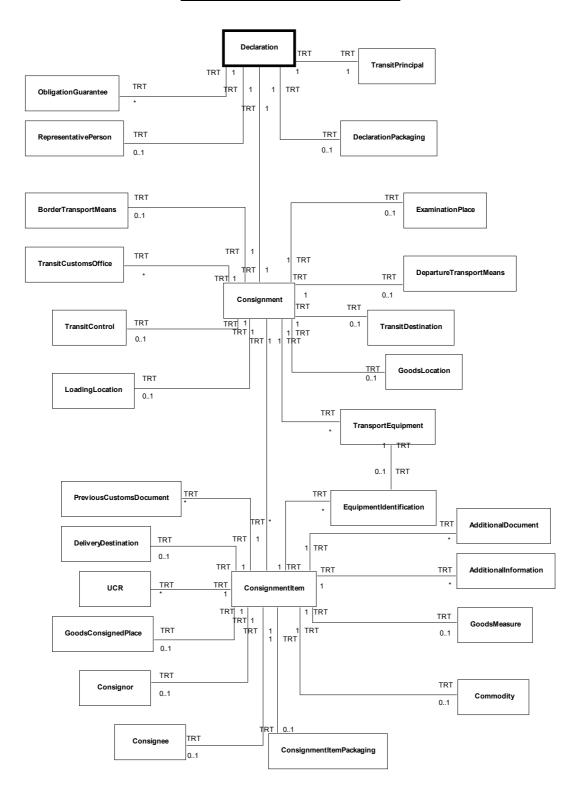
WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
034	Delivery destination	The address to which goods are to be delivered. Address, region and/or country as required by national legislation or according to national requirements.	DeliveryDestination	3042 3164 3228 3229 3251 3207	Various		
158	Identification of means of transport at departure	To identify the means of transport used at the time of presentation of the consignment to a Customs office in the context of a goods declaration.	DepartureTransportMe ans	8212	TransportMeans.Identifier.Text	an35	
176	Mode/type of means of transport at departure, coded	Means and mode of transport used for the carriage of the goods at departure, coded.	DepartureTransportMe ans	8179	TransportMeans.Type.Code	an4	UN/ECE Recommendati on 28
178	Nationality of means of transport at departure, coded	Nationality of the active means of transport used at place of departure.	DepartureTransportMe ans	8453	TransportMeans.RegistrationNation ality.Identifier	a2	ISO 3166-1 2- alpha code
159	Equipment identification number	Marks (letters and/or numbers) which identify equipment e.g. unit load device.	EquipmentIdentificatio n	8260	TransportEquipment.Identifier	an17	ISO 6346, IATA
086	Place of physical examination, coded	Identification of a place where goods are to be examined if this place is different from the place where the goods are located (WCO Ref. 078).	ExaminationPlace	3225	Location.Identifier	an11	UN/LOCODE (an5) + user codes (an6)

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
202	Place or country whence consigned, coded	Identification of the place in country or country from which the goods were initially despatched to the importing country.	GoodsConsignedPlace	3225	Location.Identifier	an11	UN/LOCODE (an5) and user code (an6), or ISO 3166-1 2-alpha code
077	Location of goods	Name of the place where goods are located.	GoodsLocation	3224	Location.Name.Text	an70	
078	Location of goods, coded	To identify the place where goods are located.	GoodsLocation	3225	Location.Identifier	an11	UN/LOCODE (an5) + user codes (an6)
126	Gross weight item level	Weight of line item including packaging but excluding the transport equipment.	GoodsMeasure	6018	LineItem.GrossWeight.Measure	n11,3 (Floating delimiter with maximum decimals as defined)	
128	Net net weight	Weight (mass) of the goods themselves without any packing.	GoodsMeasure	6048	NetNetWeight.Measure	n11,3 (Floating delimiter with maximum decimals as defined)	
130	Tariff quantity/Supplem entary quantity	Quantity of the goods in the unit as required by Customs for tariff, statistical or fiscal purposes.	GoodsMeasure	6102	GoodsItem.CustomsTariff.Quantity	n14,3 (Floating delimiter with maximum decimals as defined)	
069	Place of loading	Name of a seaport, airport, freight terminal, rail station or other place at which goods are loaded onto the means of transport being used for their carriage	LoadingLocation	3224	Location.Name.Text	an70	
232	Guarantee invalid country, coded	Code identifying the country where the guarantee is invalid.	ObligationGuarantee	3207	Country.Identifier	a2	ISO 3166-1 2- alpha code
100	Guarantee reference identifier	Details regarding undertaking given in cash, bond or as a written guarantee to ensure that an obligation will be fulfilled, e.g. under a transit procedure.	ObligationGuarantee	1154	Reference.Identifier	an35	

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
101	Security details, coded	Codes specifying details regarding undertaking given in cash, bond or as a written guarantee to ensure that an obligation will be fulfilled, e.g. under a transit procedure	ObligationGuarantee	4377	Obligation.Guarantee.Code	an3	WCO codes or user codes
007	Previous Customs document number	The number of a previous Customs document.	PreviousCustomsDocu ment	1004	Document.Identifier	an35	
186	Previous Customs document type, coded	Type of document used for declaration previously presented on Customs territory, coded.	PreviousCustomsDocu ment	1001	Document.Type.Code	an3	EDIFACT codes or user codes
248	Representative person function text	To specify the capacity in which the representative person acts on behalf of the party responsible for the declaration.	RepresentativePerson	4440	FreeText.Text	an35	
256	Representative person name	Name of the representative of the party making the declaration.	RepresentativePerson	3412	Contact.Name.Text	an35	
264	Limit Date	Date by when the transit movement has to be completed.	Transit Control	2001	Date.Date.DateTime	(CC	n8 YYMMDD)
235	Control results at departure, coded	Code indicating the results of the controls carried out by the authorized consignor prior to departure.	TransitControl	7365	Process.Indicator.Code	an2	User codes
048	Customs office of transit, coded	To identify the customs office which is responsible for transit formalities en route.	TransitCustomsOffice	3225	Location.Identifier	an11	UN/LOCODE (an5) + user codes (an6)
182	Place of destination of the transit, coded	Identification of the place at which the goods are destined under Customs control of transit procedure.	TransitDestination	3225	Location.Identifier	an11	UN/LOCODE (an5) + user codes (an6)

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
073	Transit principal - name	Name [and address] of party accepting liability for goods held or moving under a Customs authorization and - when applicable - a guarantee.	TransitPrincipal	3036	Party.Name.Text	an35	
074	Transit principal, coded	Identifier of party accepting liability for goods held or moving under a Customs authorization and - when applicable - a guarantee.	TransitPrincipal	3039	Party.Identifier	an17	International codes (e.g. DUNS, EAN) or user codes
165	Seal number	The identification number of a seal affixed to a piece of transport equipment.	TransportEquipment	9308	TransportEquipment.SeaI.Identifier	an35	
016	Unique consignment reference number	Unique number assigned to goods, both for import and export.	UCR	1202	Consignment.Identifier	an35	WCO (ISO15459) or equivalent

Annex 3 WCO transit data model version 2



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