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#### ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

Working Party on Customs Questions affecting Transport

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

Twelfth session Geneva, 12 June 2007 Item 2 (b) of the provisional agenda

ACTIVITIES OF THE EXPERT GROUP\*

World Customs Organization transit data model

Proposed data modification requests (DMRs)

Note by the secretariat

### I. BACKGROUND AND MANDATE

1. The secretariat actively participates in the elaboration of version 3 of the World Customs Organization (WCO) data model with the aim to encompass the TIR requirements into the future version of the transit data model. At its previous session, the Expert Group discussed document ECE/TRANS/WP.30/GE.1/2007/4, highlighting the differences between the TIR and WCO data models. Taking into account the comments made by the Expert Group, the secretariat attended the WCO Data Model Project Team (DMPT) meeting which took place in Brussels from 19 to 23 March 2007.

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<sup>\*</sup> The UNECE Transport Division has submitted the present document after the official documentation deadline.

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- 2. This document contains proposals for modifications to version 2 of the model, as listed by the DMPT at its last session. The Expert Group may wish to comment on the proposed modifications and advise the secretariat on follow-up actions.
- 3. When considering this document, the Expert Group may wish to take into account that the scope of version 3 of the transit WCO data model is restricted to the declaration aspects of the business-to-government (B2G) communications, whereas the TIR Carnet allows for the exchange of information between Customs administrations, from Customs administration to the private sector (response messages), as well as B2G exchange of information with regard to guarantees. In addition, the Expert Group should bear in mind that the WCO data model aims at modelling electronic messages. Therefore, modifications related to paper-based procedures, such as TIR for the time being, should focus on concepts rather than on the representation of information. Finally, coded information should be preferred to textual information, whenever possible.

## II. DATA MODIFICATION REQUESTS (DMRs)

4. A number of issues have been identified in the course of the DMPT meeting. Solutions to those issues have to be found in order to ensure that an electronic TIR declaration, based on the current requirement of the TIR Convention, could be developed on the basis of the WCO transit data model. The table below lists the issues and presents the solutions proposed at the transit subgroup meeting, together with comments from the secretariat on some of the proposals (in italics).

#	Issue	Proposed solution			
1	The <i>Date of Expiry</i> present on the TIR	A "Guarantee expiry date" data element			
	Carnet is not available in the current transit	could be added to the			
	data model.	"ObligationGuarantee" class.			
	In view of the fact that the date of expiry is fille	ed-in by the issuing association to inform			
	Customs authorities of the validity of the guara	intee, the Expert Group may wish to give			
	its views on the fact that such data element cou	ld be considered as part of the declaration			
	made by the holder to the Customs authorities.	In case the Guarantee Chain makes this			
	information available to Customs authorities, t	he only element required in the holder's			
	declaration is the identification of the guarante	ee (see also issues 2 and 9).			
2	<b>Signatures</b> of the issuing association as well	The transit subgroup considered the			
	as the international organization on the TIR	possibility of using data element 104			
	Carnet represent a form of authentication.	(Authentication) from the declaration			
	The actual transit data model does not foresee	class in the transit data model.			
	any form of authentication of the Guarantee				
	Chain.				
	The Expert Group may wish to express its view	s on the conceptual usefulness to have the			
	authentication of the association and of the inte	ernational organization as being part of the			
	holder's declaration, bearing in mind that the d	authentication of the guarantee chain is			
	highly relevant when it comes to exchange gua	rantee information between the Guarantee			
	chain and the Customs authorities, but this is n	ot in the scope of the data model version 3			
	(see also issue number 1 and 9). Moreover date	<u> </u>			
	the authentication of the association and the in	ternational organization and that of the			
	holder (see also issue number 7).				

#	Issue	Proposed solution
3	In the TIR system, there can be <b>multiple</b>	First, the cardinality from the
	<b>destinations</b> for one single transport. On the	Consignment class to the
	cover page, the list of countries of destination	TransitDestination has to be changed
	has to be indicated. Moreover, in the goods	from "01" to "*". Then, linking the
	manifest, goods have to be listed under their	TransitDestination class also to the
	destination. The actual transit data model	ConsignmentItem would allow to specify
	only allows to specify one destination for the	different destinations for each item of the
	whole consignment.	load.
4	The <i>means of transport</i> used to perform a	In order to simplify the model, and allow
	TIR transport have to be identified on the	more flexibility, the transit subgroup was
	TIR Carnet. Using the current version of the	of the view that the transit model could
	transit data model, the identification of the	use a more general class such as the
	vehicles could be provided using the	TransportMean class. Such class could be
	BorderTransportMean or the	used for the identification of any mean of
	DepartureTransportMean class. None of	transport at departure, at the border or
	those two classes can be clearly considered as	more generally used for transit. In order
	the Transport means used for the transit.	to do so, a role or usage type data element
		could be added to the TransportMeans
		class.
	The Expert Group may wish to comment on the	± ±
	class unchanged and to provide the role or usa	- · · · · · · · · · · · · · · · · · · ·
	an association-class linking the TransportMean	
5	The transit subgroup decided to consider the	In order to also be able to provide the
	certificate of approval as an additional	date of the certificate of approval, data
	document. Nevertheless, the	element 219 (Additional document
	AdditionalDocument class does not allow for	issuing date) should be added to the
	the indication of the issuance date of the	AdditionalDocument class.
6	document.	Adding a link from the Consistent and
6	The <b>remarks</b> on the cover page allow the	Adding a link from the Consignment
	holder to provide comments concerning the	class to the AdditionalInformation class
	whole declaration. There are no data	would allow the holder to provide
	elements in the transit data model that would	remarks concerning the whole
7	allow providing such information.	declaration. The transit subgroup considered the
/	The <b>signature of the holder</b> on the cover	The transit subgroup considered the
	page of the TIR Carnet represents a form of authentication. The actual transit data model	possibility of using data element 104
	does not foresee any form of authentication	(Authentication) from the declaration class in the transit data model.
	of the holder.	ciass in the transit data model.
8	On the goods manifest, the <b>Customs office(s)</b>	Adding a "TransitDeparture" class would
0	of departure is (are) mentioned. The transit	allow providing the information (the class
	subgroup could not find any mapping for that	would have the following attributes:
	information in the current transit model.	Country, coded; Customs Office, coded
	information in the current transit model.	and plain text). The class should be linked
		with a "*" cardinality to the
		Consignment class and with a "01"
		cardinality to the ConsignmentItem class.
		cardinanty to the Consignmentation class.

#	Issue Proposed solution									
	The Expert group may wish to recommend have	0 0 1								
	Destination. That would require the inclusion of a single location code in the Transit									
	Departure class or the inclusion of a Country code and a non-coded destination in the									
	TransitDestination class. Moreover, the location of country data element of this class									
	could be used instead for mapping the Country of Destination instead of data element 202									
	in the GoodsConsignedPlace.									
9	The name of the international organization	The transit subgroup proposed that a data								
	is printed on the Carnet but there is no data	element "Guarantor" could be added to								
	element available for such information in the	the ObligationGuarantee class to allow								
	present Transit data model.	the identification of the guaranteeing								
		body issuing the guarantee.								
	In view of the fact that the transit model should	· ·								
	concerning the declaration, the Expert Group i									
	international organization name on the TIR Ca	· ·								
10	issue should be considered in connection with									
10	The Customs office of departure indicates	The transit subgroup proposed that data								
	the <b>date</b> at which it accepts the TIR Carnet	element 104 (Authentication) and 023								
	by stamping and <b>signing</b> it. There are no such									
	data elements in the transit data model.	(Customs), coded) could be added to the								
	The information concerning the acceptance da	transit data model.								
	The information concerning the acceptance day	ů ů								
	office of departure seems more relevant for a r response messages regarding transit are outside	1								
	response messages regarding transit are outsit response messages subgroup. The expert Grou	1								
	relevant in the framework of the declaration.	p may wish to indicate if the information is								
11	In the transit data model, the	The transit subgroup proposed to remove								
11	TransporEquipement class is linked to the	the EquipmentIdentification class and								
	Consignment, whereas the	have the data element 159 (Equipment								
	EquipementIdentification, containing only	identification number) moved to the								
	the ID of the Transport equipment, is linked	Transport equipment class. This class								
	to the ConsignmentItem class. It is an	would be linked to both Consignment and								
	accepted practice in modeling that the	ConsignmentItem classes.								
	identifier of a class is an element of the class	5								
	and not stored in another class.									

## III. FINAL CONSIDERATIONS

5. The Expert Group may wish to advise the secretariat on the proposed modifications to the WCO transit data model and react to the comments provided by the secretariat. Annexes 1 and 2 show respectively how the data elements list would be affected by the proposed changes and how the data model would look like.

Annex 1 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.
219	Additional document issuing date	Date at which an additional document was issued and when appropriate, signed or otherwise authenticated.	AdditionalDocument	2001	Date.DateTime	(CCY	n8 YMMDD)
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

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
243	Country sub- entity name	Name of a country subdivision.	Address	3228	Country.Subdivision.Text	an35	
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
<del>175</del>	Nationality of means of transport erossing the border, coded	Nationality of the active means of transport used in crossing the border, coded.	BorderTransportMeans	8453	TransportMeans. RegistrationNationality.Identifier	<del>a2</del>	ISO 3166-1 2 alpha code
183	Mode/type of means of transport erossing the border, coded	Means and mode of transport used for erossing the border, coded.	BorderTransportMeans	8179	TransportMeans. Type. Code	an4	UN/ECE Recommend ation 28
138	Brief cargo description	Plain language description of the cargo of a means of transport, in general terms only.	Commodity	7004	Consignment.Summary Description.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	

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WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
146	Total number of packages	Count of total number of packages of the entire declaration/ consignment.	DeclarationPackaging	6061	Quantity. Quantity	n8	
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	(CCY	n8 YMMDD)
065	Customs office of declaration, coded	To identify a location at which a declaration is lodged.	Declaration	3225	Location.Identifier	an11	UN/LOCO DE (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/LOCO DE (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. Measure	(Floati with	n11,3 ng delimiter maximum ls as defined)

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
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	
104	Authentication	Proof that a document has been authenticated indicating where appropriate the authentication party.	Declaration	4426	Document.Authentication.Text	an35	User codes
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		
?	Identification of means of transport	To identify the means of transport in the context of a goods declaration.	TransportMean	8212	TransportMeans.Identifier.Text	an35	
?	Mode/type of means of transport, coded	Means and mode of transport used for the carriage of the goods, coded.	TransportMean	8179	TransportMeans.Type.Code	an4	UN/ECE Recommen dation 28
?	Nationality of means of transport, coded	Nationality of the active means of transport.	TransportMean	8453	TransportMeans. RegistrationNationality. Identifier	a2	ISO 3166-1 2-alpha code
?	Means of transport type, coded		TransportMean				
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.	<del>DepartureTransportMeans</del>	8212	TransportMeans.Identifier.Text	an35	

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
<del>176</del>	Mode/type of means of transport at departure, coded	Means and mode of transport used for the carriage of the goods at departure, coded.	<del>DepartureTransportMeans</del>	8179	TransportMeans.Type.Code	an4	UN/ECE Recommend ation 28
178	Nationality of means of transport at departure, coded	Nationality of the active means of transport used at place of departure.	<del>Departure Transport Means</del>	8453	TransportMeans.Registration Nationality.Identifier	<del>a2</del>	ISO 3166-1 2 alpha code
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/LOCO DE (an5) + user codes (an6)
202	Place or country whence consigned, coded	Identification of the place in country or country from which the goods were initially dispatched to the importing country.	GoodsConsignedPlace	3225	Location.Identifier	an11	UN/LOCO DE (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/LOCO DE (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	(Floati with	n11,3 ng delimiter maximum ls as defined)

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
130	Tariff quantity/ Supplementary quantity	Quantity of the goods in the unit as required by Customs for tariff, statistical or fiscal purposes.	GoodsMeasure	6102	GoodsItem.CustomsTariff. Quantity	(Floati with	n14,3 ng delimiter maximum s 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	
?	Guarantee expiry date		ObligationGuarantee	?	?		
?	Guarantor		ObligationGuarantee	?	?	?	?
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		Obligation.Guarantee.Code	an3	WCO codes or user codes
007	Previous Customs document number	1	PreviousCustomsDocument	1004	Document.Identifier	an35	
186	Previous Customs document type, coded	Type of document used for declaration previously presented on Customs territory, coded.	PreviousCustomsDocument	1001	Document.Type.Code	an3	EDIFACT codes or user codes

WCO ID	Name	Definition	Data model classes	UID	Name	Format	Code remarks
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.	TransitControl	2001	Date.Date.DateTime	(CCY	n8 YMMDD)
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/LOCO DE (an5) + user codes (an6)
?	Place of departure of the transit, coded	Identification of the place at which the goods start to be under Customs control of transit procedure.	TransitDeparture	3225	Location.Identifier	an11	UN/LOCO DE (an5) + user codes (an6)
?	Place of departure of the transit	Identification of the place at which the goods start to be under Customs control of transit procedure.	TransitDeparture	4440	FreeText.Text	an35	
?	Country of departure, coded		TransitDeparture	3207	Country.Identifier	a2	ISO 3166-1 2-alpha code
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/LOCO DE (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	Temarks
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.Seal. Identifier	an35	
159	Equipment identification number	Marks (letters and/or numbers) which identify equipment e.g. unit load device.	TransportEquipement	8260	TransportEquipment.Identifier	an17	ISO 6346, IATA
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 2 WCO transit data model version 3 (English only)

