



Economic Commission for Europe**Inland Transport Committee****Working Party on Customs Questions affecting
Transport****Group of Experts on Conceptual and
Technical Aspects of Computerization of the TIR Procedure****Third session**

Geneva, 13–15 September 2021

Item 4 (e) of the provisional agenda

**eTIR conceptual, functional and technical documentation version 4.3:
Amendments****Amendments to the eTIR conceptual, functional and
technical documentation****Note by the secretariat****I. Introduction**

1. At its 140th session (June 2015), the Working Party on Customs Questions affecting Transport (WP.30) considered and supported document ECE/TRANS/WP.30/2011/4/Rev.1, containing version 4.1 of the eTIR Reference Model, as a basis for future work of the Group of Experts on Legal Aspects of Computerization of the TIR Procedure (GE.2) as well as for pilot projects. At the same time, WP.30 recalled that the eTIR Reference Model is not “carved in stone”. WP.30 agreed that the eTIR Reference Model might require further improvements, in particular as a follow-up to pilot projects and the outcome of the work of GE.2.

2. Further to the elaboration of the eTIR specifications v.4.2, the Informal Ad hoc Expert Group on Conceptual and Technical Aspects of Computerization of the TIR Procedure (GE.1), at its twenty-seventh, twenty-eighth, twenty-ninth, thirtieth and thirty-first sessions, decided on a number of amendments as contained in document ECE/TRANS/WP.30/2020/7. Those amendments, as well as those resulting from the decisions taken by the Group of Experts on Conceptual and Technical Aspects of Computerization of the TIR Procedure (WP.30/GE.1) (hereafter called “the Group of Experts”) at its first session, have already been included in the draft of the eTIR specifications v.4.3. However, further questions/issues raised by Contracting Parties that have started projects to connect their systems to the eTIR international system and the ongoing work to improve the eTIR international system, the secretariat prepared this document, containing a list of potential issues for consideration by the Group of Experts and possible amendments to the eTIR specifications.

3. The third session of the Group of Experts is its last one and, as per its work plan, the eTIR specifications v4.3 shall be finalized at that session. Therefore, except for the amendments proposed under “A. Itinerary” and “B. Certificate of approval for containers”,

the secretariat has already included the proposed amendments in the current draft version of the eTIR specifications v4.3 in order to have them translated and included into the consolidated documents. Should the Group of Experts decide not to include any of these amendments, the secretariat will remove them from the final version of the eTIR specifications v4.3, which will be submitted to WP.30.

II. Considerations and possible amendments

A. Itinerary

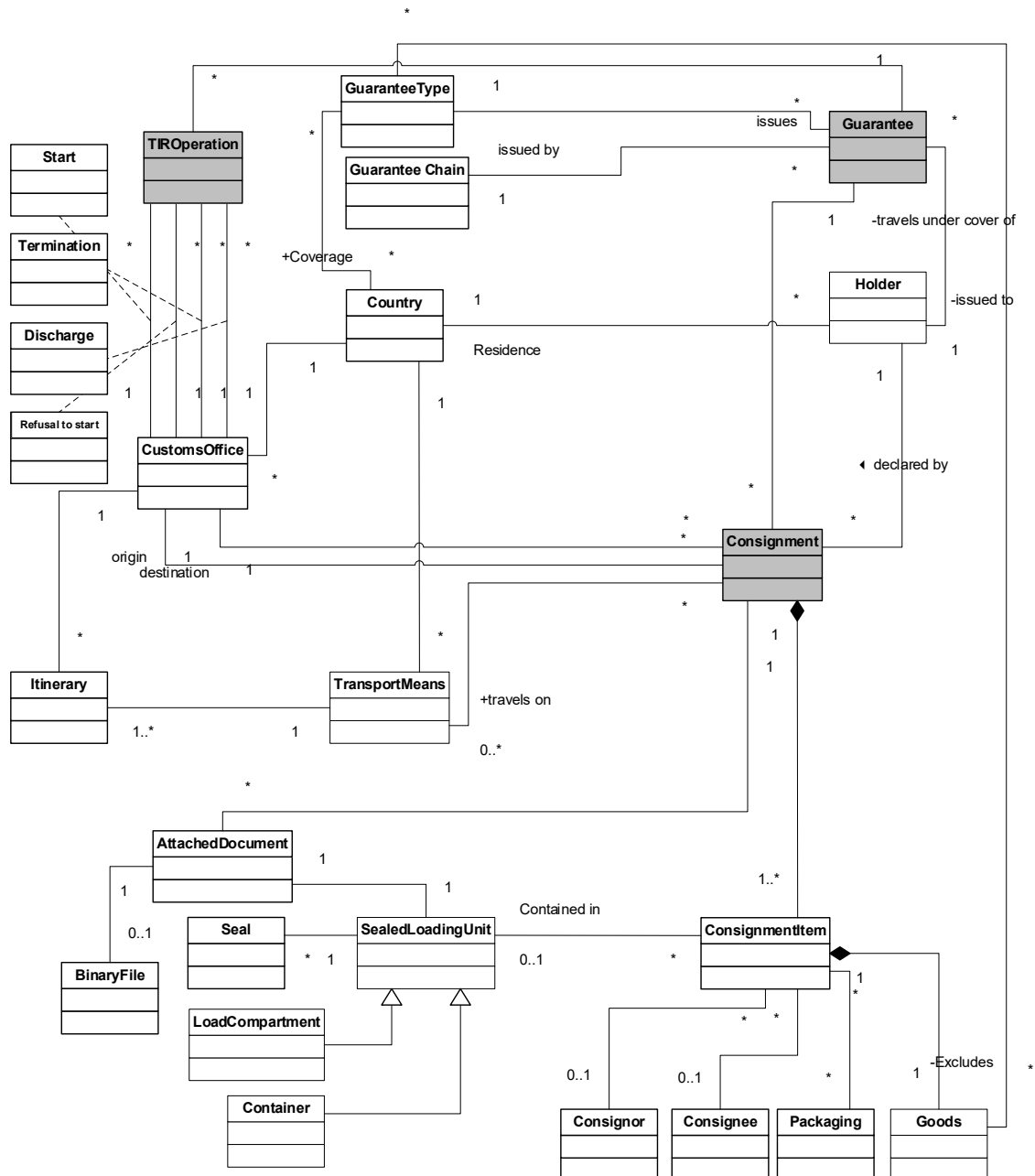
4. At its second session, experts from Turkey indicated that, in the course of the project aimed at interconnecting their customs system with the eTIR international system, they realized that in order to allow for the processing of the declaration data by the customs office of entry (en route) ahead of the arrival of the transport, the itinerary, which is at the moment defined at the level of countries, would have to be specified in term of customs offices. Experts from the European Union supported the idea as NCTS would also require that information in order to be able to forward the declaration data to the relevant customs offices. Considering that the itinerary information, which is not originally part of the data contained in the TIR Carnet, was introduced to allow for the advance processing of declaration data, the Group of Experts considered the options available in the World Customs Organization (WCO) data model and considered the inclusion of the WCO class “ItineraryGovernmentOffice” in the class “CountriesOfRouting” and give it the eTIR name “Customs office”. In that class, while the “identification” attribute will allow to indicate the customs office code, the Group of Experts was of the view that a “Role” attribute should also be added, and a relative data modification request should be submitted to WCO. The Group of Experts requested the secretariat to prepare an amendment proposal in that sense for its next session.

5. The first change which would be required is to the eTIR Concepts document (ECE/TRANS/WP.30/GE.1/2021/14/Rev.1), where, in chapter 1.2.3.1 (Registration of declaration data), the intended itinerary should read as follows:

- Intended itinerary (M)

List of customs offices (Departure, Destination, Entry and Exit) intended to be involved in the TIR transport

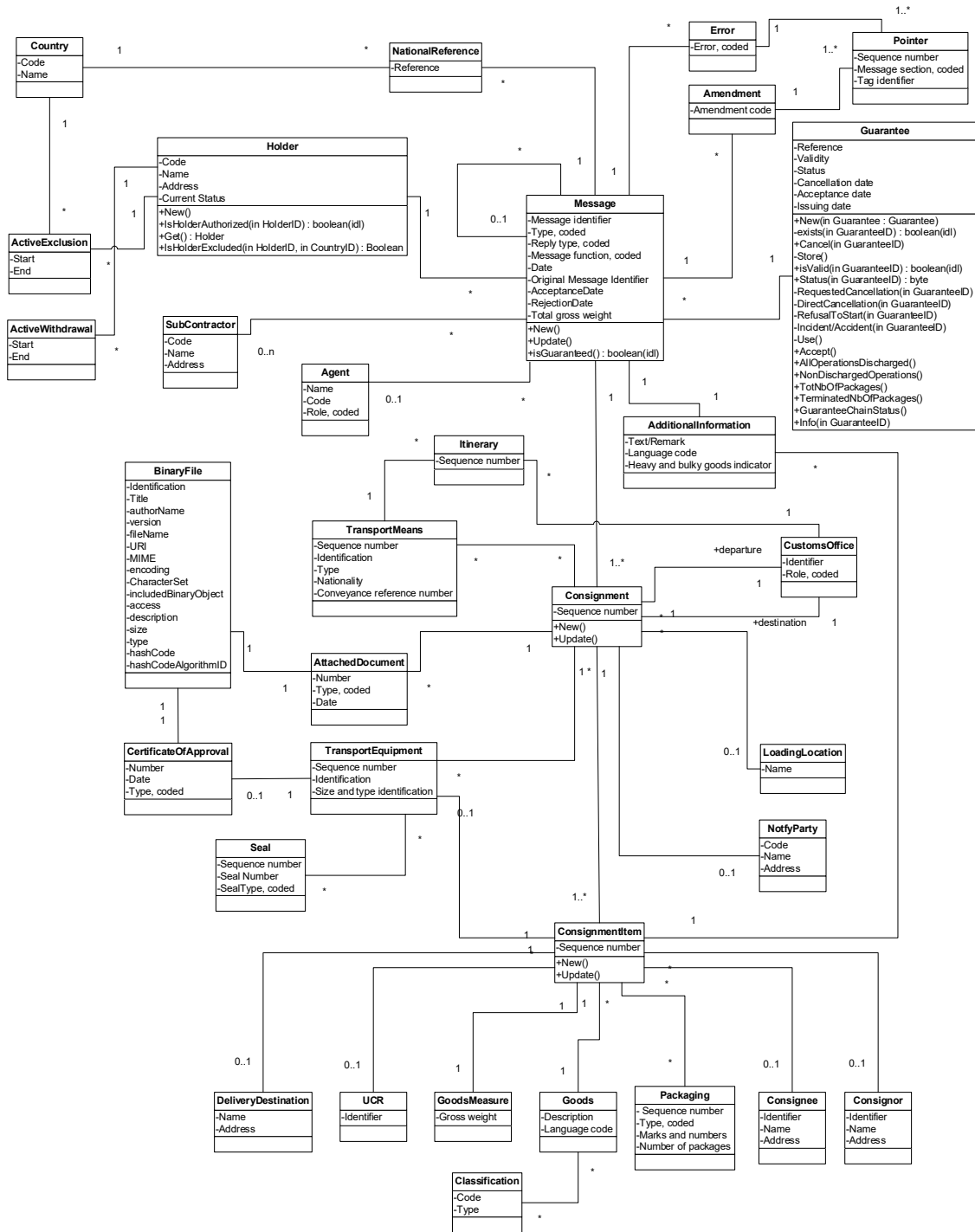
6. Furthermore, in the same document, figure 20 (General eTIR class diagram) should be amended as follows:



7. Then, in the eTIR Functional specifications, in order to better reflect the role of the former “CountryOfRouting” class (WCO ID:81A), its eTIR name should be aligned with the WCO name, i.e. “Itinerary”.

8. In that class, the WCO Class “ItineraryGovernmentOffice” will be made available and have “Customs office” as eTIR name. Two attributes will be added to that class: “Identifier” and “Role, coded”, the latter having to be added to the WCO data model.

9. Figure 1.20 (Declaration class diagram) should also be amended as follows:



10. In messages E6, E9, E11, I5, I7 and I15, for each “Consignment” and each Means of transport, the itinerary should be provided as follows:

At the class level:



At the classes and attribute level:



(the figures containing the UML diagrams will also be amended accordingly).

At the detailed level:

DeclarationData/Consignment/TransportMeans/Itinerary		1 .. unbounded
WCO Description	Details of the itinerary of the means of transport	
WCO Id	81A	
Rule	R001	
ChangeLog	0.1 New Rule R001	
Status	R	
Sequence number		1 .. 1
WCO Description	Number indicating the position in a sequence	
WCO Id	006	
ChangeLog	0.1 Added Sequence number to the Country of Routing class	
Format	n..5	
Status	R	
DeclarationData/Consignment/TransportMeans/Itinerary/Customs Office		1 .. 1
WCO Description	Details identifying the government agency office related to the itinerary	
WCO Id	82B	
Identifier		1 .. 1
WCO Description	Code specifying the location of the government agency office related to the itinerary	
WCO Id	G009	
Format	an..17	
Status	R	
Role, coded		1 .. 1
WCO Description	Proposal: <i>Code specifying the role of a customs office to be created</i>	
WCO Id		
Format	an..3	
Codelist	CL31	
Status	R	

B. Certificate of approval for containers

11. At its second session, the Group of Experts agreed to the modification of condition C005 in order to take into account that, while containers have certificate of approval (by design type or individual), transport operators do not have to indicate the reference of the certificate of approval when transporting goods in containers (see ECE/TRANS/WP.30/GE.1/4, para. 49).

12. However, it was brought to the attention of the secretariat that, while the new condition solves this issue in general, it does not work in certain cases. For example, when a container is transported on a semi-trailer, the tractor unit is referenced as the means of transport, but both the container and the semi-trailer should be listed as transport equipment, the plate number of the semi-trailer being required to ensure that the semi-trailer is not left behind in the country of destination.

13. With the latest version of condition C005, this would have as consequence that a certificate of approval would have to be indicated for the semi-trailer, which in this case would not have one.

14. The addition of a new attribute at the level of the consignment could allow to resolve this issue. In the WCO data model, the consignment class has an attribute “Container transport indicator“ (WCO ID 096) which could be activated in the following eTIR messages: E6, E9, E11, I6, I7 and I15.

Condition C005 could then be amended as follows:

```
IF(CONSIGNMENT.Heavy or bulky goods indicator = FALSE) AND (CONSIGNMENT.
Container transport indicator = FALSE)
```

```
THEN NOT EMPTY( TRANSPORTEQUIPMENT.CERTIFICATEOFAPPROVAL )
```

```
ELSE EMPTY( TRANSPORTEQUIPMENT.CERTIFICATEOFAPPROVAL )
```

C. Minor corrections

15. During the development and improvement of the eTIR international system, the secretariat has identified several minor issues of editorial, consistency or logical nature. For the sake of transparency, the secretariat listed all the required corrections in the table below. The Group of Experts may wish to note that these corrections is included in version 4.3 of the eTIR specifications.

Table 1
Minor corrections

<i>ID</i>	<i>Issue</i>	<i>Correction</i>
1	Following the change of condition C002 during the second session of the Group of Experts, the cardinality of the attributes “Marks and numbers” and “Number of packages” had to be modified accordingly.	Both attributes “Marks and numbers” and “Number of packages” have their status changed to “D” and their cardinality set to “0..1” in all relevant messages.
2	The “Conveyance reference number” attribute available in messages E9 and E11 in the “TransportMeans” class has a wrong cardinality of 1..1 (required) whereas it set to 0..1 (optional) in all other relevant messages.	As for the other instances of this attribute in all other messages, its cardinality will be set to 0..1 (optional).
3	Since the “Heavy of bulky indicator” has been moved from the AdditionalInformation class to the Consignment class, the AdditionalInformation class should no longer be required	The status and cardinality of the AdditionalInformation class will be set to 0..1 (optional) in all relevant messages.
4	The Address class inside the Agent class is missing in messages E6, I6, I7 and I15 whereas it is present in messages E9 and E11.	The missing Address class will be added to the Agent class in messages E6, I6, I7 and I15.
5	The cardinality of the Amendment class in message E11 should not be 0..unbounded as the sole purpose of this message is to send amendments.	The cardinality of the Amendment class in message E11 will be set to 1..unbounded.

D. Add a Sequence number in the Subcontractor class

16. At its second session, the Group of Experts agreed that the secretariat would reconsider the addition of a “Sequence number” to the “Subcontractor” class in all relevant messages.

17. After having discussed with Experts on the potential implications of having to add a “Sequence number” attribute to all classes representing parties, the secretariat found out that such attribute was not required to process Advance amendment data (E11) and the corresponding recording of the amendment to the declaration data (I7) and, therefore, withdraws the proposal to add a “Sequence number” attribute to the Subcontractor class.

E. Notification to customs in case of changes to the Seals

18. At its first session, the Group of Experts agreed that the message I15 “Notify Customs” would be sent by the eTIR international system while processing messages I9 “Start TIR Operation” and I11 “Terminate TIR Operation” in case of initial setting or change on seals affixed to the transport equipment.

19. As a result of this decision, and after having further designed how to apply this decision in the messages, the secretariat proposes the following additional amendments:

- In message I15, the "Message Function, coded" attribute should be used to indicate to customs authorities the different types of notifications they will receive, in the same

way that this attribute is used in the E7 message used to notify the guarantee chain". The following restricted codes should be used (and codes T7 and T8 added to the code list CL16, see the next section):

T1 - New declaration data
 T2 - Amended declaration data
 T7 - Seals information (Start)
 T8 - Seals information (Terminate)

- In message I15, the cardinality and the status of the "DeclarationData" class should be changed from 1..1 (Required) to 0..1 (Dependent) and the cardinality and the status of the "TIROperation" class should be changed from 0..1 (Optional) to 0..1 (Dependent). The following new condition C010 should be applied to both classes and should read as follows:

```
IF (MESSAGE.Message function, coded) = 'T1' OR 'T2')
THEN NOT EMPTY (DECLARATIONDATA) AND EMPTY
(GUARANTEE.TIROPERATION)
ELSE IF (MESSAGE.Message function, coded) = 'T7' OR 'T8')
THEN EMPTY (DECLARATIONDATA) AND NOT EMPTY
(GUARANTEE.TIROPERATION)
```

- In the message I16 "Notification confirmation", the condition C009 (IF (EMPTY(ERROR) THEN NOT EMPTY(DECLARATION))) applied on the "DeclarationData" class should be removed. Instead, it should be replaced by a new rule R011 which reads as follow: "If the Message confirms the reception of declaration data (original or amended) then the "National Reference" information must be provided."

20. The Group of Experts may wish to consider this proposal and confirm its inclusion in the eTIR specifications v.4.3.

F. Add new codes in code list 16 "Message function" (UN/EDIFACT 1225)

21. During the development and improvement of the eTIR international system, and based on the amendments approved by GE.1 and WP.30/GE.1, the secretariat has identified the following codes that should be added to the code list CL16 "Message function" managed by UN/CEFACT:

- T1 - New declaration data: this code should be used as a restricted code in messages E7 and I15 to notify respectively the guarantee chain and customs authorities of the contracting parties along the itinerary about the reception of the declaration data for a TIR transport;
- T2 - Amended declaration data: this code should be used as a restricted code in messages E7 and I15 to notify respectively the guarantee chain and customs authorities of the contracting parties along the itinerary about the reception of amendment(s) to the declaration data for a TIR transport;
- T3 - New start of TIR operation: this code should be used as a restricted code in message E7 to notify the guarantee chain about the start of a TIR operation;
- T4 - New termination of TIR operation: this code should be used as a restricted code in message E7 to notify the guarantee chain about the termination of a TIR operation;
- T5 - New discharge of TIR operation: this code should be used as a restricted code in message E7 to notify the guarantee chain about the discharge of a TIR operation;
- T6 - New refusal to start TIR operation: this code should be used as a restricted code in message E7 to notify the guarantee chain about the refusal to start a TIR operation;
- T7 - Seals information (Start): this code should be used as a restricted code in message I15 to notify customs authorities about initial affixing or changes on seals while processing the start of a TIR operation;

- T8 - Seals information (Terminate): this code should be used as a restricted code in message I15 to notify customs authorities about changes on seals while processing the termination of a TIR operation.

22. The codes T1 to T8 are temporary eTIR only codes which will be replaced by the codes of the UN/CEFACT code list 1225, once these new entries are included.

23. The Group of Experts may wish to consider this proposal and confirm the addition of the new codes to the code list CL16.

G. Improve the pseudo code of condition C001

24. While working with customs authorities on the interconnection projects, the secretariat received as feedback that the pseudo code of condition C001 could be improved. As a result, the secretariat proposes to replace the current pseudo code:

```
IF EXIST( PARTY.code )  
THEN NOT EMPTY( PARTY.code )  
ELSE NOT EMPTY( PARTY.name , ADDRESS )
```

With:

```
IF EMPTY( PARTY.code )  
THEN NOT EMPTY( PARTY.name , ADDRESS )
```

25. The Group of Experts may wish to consider this proposal and confirm the amendment of condition C001.

H. Add a new code list 28 “Controlling agency” (UN/EDIFACT 0051)

26. At its first session, the Group of Experts approved a series of amendments related to metadata information that is contained at the beginning of each message. A new code list CL28 should be added and assigned to the “Responsible Agency, coded” attribute which was added to the metadata class. This code list should be based on the UN/EDIFACT code list 0051 (Controlling agency).

27. Consequently, the code list “Specifications name” becomes CL29 and the code list “Specifications version” becomes CL30. Both code lists are also assigned to attributes in the metadata class and they are managed internally by the secretariat.

28. The Group of Experts may wish to consider this proposal and confirm the changes to the code lists CL28, CL29 and CL30.

I. Add a new code list 31 “Custom office role”

29. At its first session, the Group of Experts confirmed the inclusion of messages I19 and I20 in the eTIR specifications to allow the eTIR international system to query the International TIR Data Bank (ITDB) regarding customs offices information. At its second session, the Group of Experts confirmed the possibility for customs authorities to use these messages as well.

31. A new code list needs to be added and assigned to the “Role, coded” attribute in the class “CustomsOffice/Role” of the message I20. This new code list 31 called “Customs office role” should contain the following three codes:

- 1 - Customs office of departure (DEP): customs office of a contracting party where the TIR transport of a load or part load of goods begins;
- 2 - Customs office of destination (DES): customs office of a contracting party where the TIR transport of a load or part load of goods ends;
- 3 - Customs office en route (ENR): customs office of a contracting party through which a road vehicle, combination of vehicles or container enters or leaves this contracting party in the course of a TIR transport.

32. The Group of Experts may wish to consider this proposal and confirm the addition of the new code list CL31.

J. Cardinality of the classes in the E11 message

33. At its second session, the Group of Experts approved a series of amendments clarifying the specifications related to messages E9/E10, E11/E12 and E13/E14. The secretariat has implemented these amendments in the eTIR international system and has found that, in order for the amendment mechanism to work, all first level classes (except Guarantee and Holder) of the E11 message should become optional.

34. Indeed, in case of an amendment, the holder should not fill in information that he or she may not wish to amend in the original declaration. Such change in the cardinality of these classes should not invalidate rules or conditions in the concatenated version of the declaration, as accepted by customs authorities while sending an amended version of message I7.

35. The Group of Experts may wish to consider this proposal and confirm the changes to message E11.

K. Updated list of error codes

36. During its thirty-first session, GE.1 welcomed a presentation by the secretariat on a proposal for a new code list for errors (CL99) and agreed with it. GE.1 noted that this list was a living document and that, whenever necessary, the secretariat would propose revisions of the code list to the Group of Experts.

37. The secretariat has produced a revised version of the code list for errors (CL99) which is available in Annex II. The Group of Experts may wish to consider and take note of the revised code list.

L. Updated list of rules and conditions

38. During its second session, the Group of Expert approved several amendments to the rules and conditions. Additional proposals for amendments regarding conditions and rules are described in sections above and the secretariat proposes also to correct minor issues of editorial, consistency or logical nature:

- The pseudo code of condition C001 is improved as proposed in section G above;
- The pseudo code of condition C002 is updated as mentioned in the report of the second session of WP.30/GE.1 (see para. 31 of ECE/TRANS/WP.30/GE.1/4) and the description is updated accordingly by the secretariat;
- In condition C003, a small mistake in the name of the “Heavy or bulky goods indicator” attribute and the IF statement in the pseudo code are corrected;
- The pseudo code of condition C005 is updated in line with the report of the second session of WP.30/GE.1 (see para. 49 of ECE/TRANS/WP.30/GE.1/4) and the description is updated accordingly. However, condition C005 might have to be updated again, taking into account the result of the discussion under section B above;
- The condition C009 is removed (former condition C010 becomes C009), a new condition C010 and a new rule R011 are added as proposed in section E above;

39. The secretariat has produced a revised version of the rules and conditions which is available in Annex II. The Group of Experts may wish to consider and take note of this revised code list.

III. Next steps

40. The Group of Experts is invited to discuss the possible amendments presented in this document and provide the secretariat with detailed instructions on how to further proceed.

Annex I

Revised error code list (CL99)

In table 2 below, the following terms are used:

- Message: An XML message;
- Field: An XML element or attribute;
- Value: The value mentioned in an XML element or attribute.

In order to better spot the changes applied since the first session of the Group of Experts when they took note of this updated list, the following conventions apply:

- New codes are displayed in **bold** (12 occurrences);
- Changes to existing codes are highlighted as follows: additions are underlined and deletions are in ~~striketrough~~ (12 occurrences). These codes are mentioned with an asterisk or ease of reference;
- Deletions of existing codes are in ~~striketrough~~ (0 occurrence).

Table 2
Code list 99

Code	Name	Description
100	Invalid message	The message is invalid and no additional details are available for this error
101*	Missing parameter <u>field</u>	A required parameter <u>field</u> is missing in the message
102*	Invalid domain <u>for the value</u> parameter	A parameter <u>The value is out of</u> outside a defined list of acceptable values
103*	Malformed date	A parameter <u>field</u> holding a date <u>value</u> cannot be properly converted
104*	Not an integer	A numeric field is containing data <u>contains a value</u> that is not numeric
105*	Parameter <u>Field value</u> length exceeded	A String field contains <u>a value with</u> too many characters
106*	Invalid pattern	A String field does not match the pattern <u>for the field</u> defined in the XML Schema Definition of the message
107*	Invalid element <u>field</u>	The specified element is field <u>does not follow</u> following the order defined in the schema <u>XML Schema Definition of the message</u>
108	Missing XML attribute	The specified XML tag is missing a required attribute (e.g. formatCode for all date fields)
109	Invalid XML attribute	The specified XML tag has an invalid attribute value (e.g. formatCode for all date fields)
120	Invalid eTIR specifications version	The version specified in the metadata fields is not the one(s) approved to function in the eTIR system
151	Condition C001 failure	The condition C001 is not fulfilled
152	Condition C002 failure	The condition C002 is not fulfilled
153	Condition C003 failure	The condition C003 is not satisfied
154	Condition C004 failure	The condition C004 is not fulfilled
155	Condition C005 failure	The condition C005 is not fulfilled
156	Condition C006 failure	The condition C006 is not fulfilled
157	Condition C007 failure	The condition C007 is not fulfilled

<i>Code</i>	<i>Name</i>	<i>Description</i>
158	Condition C008 failure	The condition C008 is not fulfilled
159	Condition C009 failure	The condition C009 is not fulfilled
160	Condition C010 failure	The condition C010 is not fulfilled
181	Rule R001 failure	The rule R001 is not satisfied
182	Rule R002 failure	The rule R002 is not satisfied
188	Rule R008 failure	The rule R008 is not satisfied
190	Rule R010 failure	The rule R010 is not satisfied
200	Invalid state	The state of an internal object is invalid, and no additional details are available for this error
201	Guarantee not acceptable	The guarantee is not in a state that allows to accept it
203	Guarantee not cancellable	The guarantee is not in a state that allows to cancel it
204	Guarantee already registered	The guarantee has already been registered
205	Guarantee already cancelled	The guarantee is already cancelled or the request to cancel it has already been sent
210	Operation already started	The operation is already started
211	Operation already terminated	The operation has already been completed
212	Operation already discharged	The operation is already discharged
213	Operation not yet started	The operation is not yet started
214	Operation ID already registered	The "refusal to start" is an operation on its own and must have a unique operation ID
215	Operation sequence already registered	The "refusal to start" is an operation on its own and must have a unique operation sequence
216	Refusal to start not authorized	The "refusal to start" cannot be performed because of the current guarantee status or because it is the first operation for this transport
220	Declaration not yet received	The operation cannot be started because the declaration was not received
299	Duplicate message	The same message was already received from the same source
300	Invalid operation	An invalid operation was performed, and no additional details are available for this error
301	Guarantee not found	The guarantee was not found in the database
302	Guarantee chain not found	The guarantee chain was not found in the database
303	Guarantee type not found	The guarantee type was not found in the database
304*	Customs office not found	The customs office was not found in the database <u>This error code is not used in the eTIR specifications v4.3, except in the context of the message pair I19/I20</u>
305	Country not found	The country was not found in the database
306	Control type not found	The control type was not found in the database
307	Declaration not found	The related declaration was not found in the database
308	Forward information not found	The eTIR international system could not find information on whom to forward the message to

<i>Code</i>	<i>Name</i>	<i>Description</i>
320*	Holder/Guarantee mismatch	The holder id parameter value and the guarantee reference parameter value do not match what is recorded in the database
321	Holder not authorized	The holder is not authorized in the International TIR Data Bank (ITDB)
322	Holder not found	The holder is not found in ITDB
330	Guarantee chain not authorized	The guarantee chain is not authorized in the database
331*	Guarantee chain/Guarantee mismatch	The guarantee chain code parameter value and the guarantee reference parameter value do not match what is recorded in the database
332*	Guarantee type/Guarantee mismatch	The guarantee type parameter value and the guarantee reference parameter value do not match what is recorded in the database
333*	Declaration reference not found	The FunctionalReferenceID value do <u>does</u> not match to what is already recorded in the database
334	Declaration already cancelled	The declaration could not be modified because it was already cancelled
400	eTIR problem	An internal error in the eTIR international system occurred and no additional details are available for this error
500	Customs declaration processing error	The message was not accepted by customs and no additional details are available for this error
501	Advance TIR data not accepted	Customs did not accept the advance TIR data
502	Advance amendment data not accepted	Customs did not accept the advance amendment data

Annex II

New lists of conditions and rules

Table 3
List of conditions

Condition ID	Description	Pseudo code
C001 (Modified)	For any party, either its code must be filled in or its name and address.	IF EMPTY (PARTY.code) THEN NOT EMPTY (PARTY.name, PARTY.ADDRESS)
C002 (Modified)	If the Type of Packaging is a bulk one ("VQ", "VG", "VL", "VY", "VR" or "VO"), then the number of packages should be empty and the marks and numbers should be optional. If the Type of Packaging is unpacked or unpackaged ("NE", "NF", " or "NG"), then the number of packages should be filled in and the marks and numbers should be optional. Finally, if the Type of Packaging is something else, then both the number of packages and the marks and numbers should be filled in.	IF (PACKAGING.Type, coded) = "VQ", "VG", "VL", "VY", "VR" OR "VO" THEN OPTIONAL (PACKAGING.Marks and numbers) AND EMPTY (PACKAGING.Number of packages) ELSE IF (PACKAGING.Type, coded) = "NE", "NF" OR "NG" THEN OPTIONAL (PACKAGING.Marks and numbers) AND NOT EMPTY (PACKAGING.Number of packages) ELSE NOT EMPTY (PACKAGING.Marks and numbers) AND NOT EMPTY (PACKAGING.Number of packages)
C003 (Modified)	If the consignment is marked as not containing heavy or bulky goods, then the transport equipment should be filled in, otherwise it should be empty.	IF (CONSIGNMENT.Heavy or bulky goods indicator) = FALSE THEN NOT EMPTY (TRANSPORTEQUIPMENT) ELSE EMPTY (TRANSPORTEQUIPMENT)
C004	If the classification of the goods is not filled in or if it is filled in without using the Harmonized System, then the description of the goods should be filled in.	IF EMPTY (GOODS.CLASSIFICATION) OR (GOODS.CLASSIFICATION.Type) <> 'HS' THEN NOT EMPTY (GOODS.Description)
C005 (Modified)	If the consignment is marked as not containing heavy or bulky goods and the transport equipment is a trailer, a semitrailer, a double trailer or the load compartment of a simple truck, then the certificate of approval in the transport equipment should be filled in, otherwise it should be empty.	IF (CONSIGNMENT.Heavy or bulky goods indicator = FALSE AND TRANSPORTEQUIPMENT.Size and type identification = 14, 17, 42 OR T1) THEN NOT EMPTY (TRANSPORTEQUIPMENT.CERTIFICATEOFAPPROVAL) ELSE EMPTY (TRANSPORTEQUIPMENT.CERTIFICATEOFAPPROVAL)
C006	If the function of the message does not indicate an error ('6' or '11' or '44' or '45'), then the error class should be empty. If the function of the message indicates an error ('10' or '27'), then the error class should be filled in.	IF (MESSAGE.Message function, coded) = '6' OR '11' OR '44' OR '45' THEN EMPTY (ERROR) ELSE IF (MESSAGE.Message function, coded) = '10' OR '27' THEN NOT EMPTY (ERROR)
C007	If the function of the message indicates an acceptance ('44'), then the date of acceptance of the advance TIR data should be	IF (MESSAGE.Message function, coded) = '44'

<i>Condition ID</i>	<i>Description</i>	<i>Pseudo code</i>
	filled in and its date of rejection should be empty. If the function of the message indicates an error ('27'), then the date of rejection advance TIR data should be filled in and its date of acceptance should be empty.	THEN NOT EMPTY (ADVANCETIRDATA.Acceptance date) AND EMPTY (ADVANCETIRDATA.Rejection date) ELSE IF (MESSAGE.Message function, coded) = '27' THEN NOT EMPTY (ADVANCETIRDATA.Rejection date) AND EMPTY (ADVANCETIRDATA.Acceptance date)
C008	If the function of the message indicates a change ('4'), then the amendment, guarantee and holders classes should be filled in. If the function of the message indicates an original ('9'), then the amendment class should be empty and the consignment, guarantee and holders classes should be filled in.	IF (MESSAGE.Message function, coded) = '4' THEN NOT EMPTY (AMENDMENT, GUARANTEE, HOLDER) ELSE IF (MESSAGE.Message function, coded) = '9' THEN EMPTY (AMENDMENT) AND NOT EMPTY (CONSIGMENT, GUARANTEE, HOLDER)
C009 <i>(Modified)</i>	If the function of the message indicates an acceptance ('44'), then the date of acceptance of the advance amendment data should be filled in and its date of rejection should be empty. If the function of the message indicates an error ('27'), then the date of rejection advance amendment data should be filled in and its date of acceptance should be empty.	IF (MESSAGE.Message function, coded) = '44' THEN NOT EMPTY (ADVANCEAMENDMENTDATA.Acceptance date) AND EMPTY (ADVANCEAMENDMENTDATA.Rejection date) ELSE IF (MESSAGE.Message function, coded) = '27' THEN NOT EMPTY (ADVANCEAMENDMENTDATA.Rejection date) AND EMPTY (ADVANCEAMENDMENTDATA.Acceptance date)
C010 <i>(Modified)</i>	If the function of the message indicates new or amended declaration data ('T1' or 'T2'), then the declaration data class should be filled while the TIR operation class under the Guarantee class should not. If the function of the message indicates information about seals ('T7' or 'T8'), then the TIR operation class under the Guarantee class should be filled while the declaration data class should not.	IF (MESSAGE.Message function, coded) = 'T1' OR 'T2' THEN NOT EMPTY (DECLARATIONDATA) AND EMPTY (GUARANTEE.TIROPERATION) ELSE IF (MESSAGE.Message function, coded) = 'T7' OR 'T8' THEN EMPTY (DECLARATIONDATA) AND NOT EMPTY (GUARANTEE.TIROPERATION)

Table 4
List of rules

<i>Rule ID</i>	<i>Description</i>	<i>Testable</i>
R001	Each country of routing shall have a unique sequence number. They shall be numbered from 1 to the number of countries through which the means of transport travels and represent the order in which countries are travelled, from departure to destination.	Yes
R002	Each transport means shall have a unique sequence number. They shall be numbered from 1 to the number of transport means involved in the transport and represent the order in which transport means are used, from departure to destination.	Yes
R003	Re-use a sequence number to indicate that a seal has been replaced.	No
R004	Use new sequence number only to mention additional seals.	No
R005	Indicate that a seal has been removed and not replaced with an "X" in the "seals number" field of the transport equipment sequence corresponding to the removed seal.	No
R006	Required in case the seals have been changed, added or removed.	No
R007	Even in case of multiple consignments in the declaration, only the first consignment is listed, and all transport equipment used must be listed only in that consignment.	No
R008	The first occurrence of GOODS.CLASSIFICATION must be of type "HS".	Yes
R009	The first TIR operation should contain the information about the transport equipment previously transmitted through the declaration, as well as seals used in the transport, when goods transported are not of heavy or bulky nature.	No
R010	The Sequence number cannot be 1.	Yes
R011 (Added)	If the Message confirms the reception of declaration data (original or amended) then the "National Reference" information must be provided.	Yes