Economic and Social Council

Economic Commission for Europe

Administrative Committee for the TIR Convention, 1975

Technical Implementation Body

First session
Geneva, 18–21 January 2022
Item 5 (a) (v) of the provisional agenda
eTIR conceptual, functional and technical documentation:
Version 4.3:
Amendments

Proposals for minor corrections to version 4.3

Note by the secretariat

I. Introduction and mandate

1.   At its 158th session, the Working Party on Customs Questions affecting Transport (WP.30) welcomed the fact that the Group of Experts on Conceptual and Technical Aspects of Computerization of the TIR Procedure (WP.30/GE.1) had completed its mandate on time and that WP.30/GE.1 had agreed on a complete version 4.3 of the eTIR specifications. Recalling Annex 11, Article 5 of the TIR Convention, WP.30 mandated the secretariat to transfer version 4.3 of the eTIR specifications to AC.2 and, more specifically, the countries bound by Annex 11, for consideration and possible adoption of the eTIR concepts and the eTIR functional specifications and to the Technical Implementation Body (TIB) for consideration and possible adoption of the eTIR technical specifications.

2.   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 minor amendments for consideration by TIB and possible inclusion in version 4.3 to the eTIR specifications.

II. Considerations and possible amendments

A. Minor corrections

3.   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. TIB may wish to note that these corrections are (IDs 1 to 4) or will be (ID 5) included in version 4.3 of the eTIR specifications.

Table 1
Minor corrections

ID	Issue	Correction
1	Following the change of condition C008 during the second session of WP.30/GE.1 and the change of location of the "Heavy of bulky goods indicator" during the third session of WP.30/GE.1, the "AdditionalInformation" class in message I7 should no longer be dependent and bound to C008.	The status of the "AdditionalInformation" class in message I7 will be set to optional to be aligned with messages E9 and E11. Condition C008 will also be removed from this class.
2	The status and cardinality of the "Remarks" attribute in the "AdditionalInformation" class at the declaration level is not consistent in messages E6, E9, E11, I6, I7 and I15. Now that the "Heavy of bulky goods indicator" has been moved in the "Consignment" class, the "Remarks" attribute remains the only one in this class.	The status and cardinality of the "Remarks" in the "AdditionalInformation" class will be set to 1..1 (Required) to be aligned with the "Remarks" attribute in the "AdditionalInformation" at the "ConsignmentItem" level.
3	The cardinality of the "Identifier" attribute in the "Agent" class in messages I7 and I15 is set to 1..1 whereas it should be set to 0..1 to match its dependent status.	The cardinality of the "Identifier" attribute in the "Agent" class in messages I7 and I15 will be set to 0..1.
4	The cardinality of the "Guarantee" class in message I15 is set to 1..1 whereas it should be set to 0..1 as it status is optional.	The cardinality of the "Guarantee" class in message I15 will be set to 0..1.
5	The cardinality of the "NationalItinerary" class in the "TIR Operation"-"Start" class of messages E6 and I6 is 0..unbounded while it is 0..1 in messages I9 and I15.	Considering that I6 and E6 are only the results of queries and in line with the results of the survey conducted among TIR focal points on the matter, the cardinality of the "NationalItinerary" class in messages I6 and E6 will be set to 0..1.

B. Updated list of rules and conditions

4.   In the course of various tests carried out during eTIR interconnection projects, it appeared that the eTIR specification would benefit from introducing a set of rules which would clarify the link between the sender of several messages and the itinerary:

- A new testable rule R012 applied on message I7 which would read as follows: "Only the customs authority of the first country of departure can send the original declaration data.";

- A new testable rule R013 applied on message I7 which would read as follows: "Only customs authorities part of the current itinerary of a TIR transport can send amended declaration data.";

- A new testable rule R014 applied on message E11 which would read as follows: "TIR Carnet holders can only send advance amendment data to customs authorities of countries that are part of the current itinerary of a TIR transport.";

- A new testable rule R015 applied on message E9 which would read as follows: "TIR Carnet holders can only send advance TIR data to customs authorities of countries that are part of the intended itinerary of a TIR transport.".

- A new testable rule R016 applied on message E5 which would read as follows: "Guarantee chains are only allowed to query information about guarantees they have registered.";

5.   Furthermore, the secretariat noticed an inconsistency in condition C008, the repetition of the mandatory status of the Guarantee and Holder classes regardless of the value of the "Message function, coded" attribute, and proposes to revise it as follows:

IF (MESSAGE.Message function, coded) = '4'
THEN NOT EMPTY (AMENDMENT)
ELSE IF (MESSAGE.Message function, coded) = '9'
THEN EMPTY (AMENDMENT) AND NOT EMPTY (CONSIGMENT)

6.   TIB may wish to consider and approve the revised lists of rules and conditions, as presented in Annex I, for version 4.3 of the eTIR functional specifications.

C.   Updated list of error codes

7.   During its thirty-first session, the Informal Ad hoc Expert Group on Conceptual and Technical Aspects of Computerization of the TIR procedure (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 TIB.

8.   The secretariat has produced a revised version of the code list for errors (CL99) which is available in Annex II. TIB may wish to consider and adopt this revised code list which includes, inter alia, error codes related to amendments proposed in the sections above, and that will be updated in version 4.3 of the eTIR specifications.

III.   Next steps

9.   TIB 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

New lists of conditions and rules

Table 2
List of conditions

Condition ID	Description	Pseudo code
C001	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	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	If the consignment is marked as not containing heavy of 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 of 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 (CONSIGNMENT. Container transport indicator = FALSE) 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 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	IF (MESSAGE.Message function, coded) = '44' THEN NOT EMPTY (ADVANCETIRDATA.Acceptance date) AND EMPTY (ADVANCETIRDATA.Rejection date) ELSE IF (MESSAGE.Message function, coded) = '27'

Condition ID	Description	Pseudo code
	in and its date of acceptance should be empty.	THEN NOT EMPTY (ADVANCETIRDATA.Rejection date) AND EMPTY (ADVANCETIRDATA.Acceptance date)
C008 (Modified)	If the function of the message indicates a change ('4'), then the amendment class should be filled in. If the function of the message indicates an original ('9'), then the amendment class should be empty and the consignment class should be filled in.	IF (MESSAGE.Message function, coded) = '4' THEN NOT EMPTY (AMENDMENT) ELSE IF (MESSAGE.Message function, coded) = '9' THEN EMPTY (AMENDMENT) AND NOT EMPTY (CONSIGMENT)
C009	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	If the function of the message indicates new or amended declaration data ('69' 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) = '69' 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 3
List of rules

Rule ID	Description	Testable
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	If the Message confirms the reception of declaration data (original or amended) then the "National Reference" information must be provided.	Yes
R012 *(Added)*	Only the customs authority of the first country of departure can send the original declaration data.	Yes
R013 *(Added)*	Only customs authorities part of the current itinerary of a TIR transport can send amended declaration data.	Yes
R014 *(Added)*	TIR Carnet holders can only send advance amendment data to customs authorities of countries that are part of the current itinerary of a TIR transport.	Yes
R015 *(Added)*	TIR Carnet holders can only send advance TIR data to customs authorities of countries that are part of the intended itinerary of a TIR transport.	Yes
R016 *(Added)*	Guarantee chains are only allowed to query information about guarantees they have registered.	Yes

Annex II

Revised error code list (CL99)

In table 4 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 last session of WP.30/GE.1 when they took note of this updated list, the following conventions apply:

- New codes are displayed with a grey background (10 occurrences);

- Changes to existing codes are highlighted as follows: additions are underlined and deletions are in ~~strikethrough~~ (0 occurrences). These codes are mentioned with an asterisk or ease of reference.

- Deletions of existing codes are in ~~strikethrough~~ (0 occurrence).

Table 4
Code list 99

Code	Name	Description
100	Invalid message	The message is invalid, and no additional details are available for this error
101	Missing field	A required field is missing in the message
102	Invalid domain for the value	A value is outside a defined list of acceptable values
103	Malformed date	A field containing a date value cannot be properly converted
104	Not an integer	A numeric field contains a value that is not numeric
105	Field value length exceeded	A String field contains a value with too many characters
106	Invalid pattern	A String field does not match the pattern for the field defined in the XML Schema Definition of the message
107	Invalid field	The specified field does not follow the order defined in the XML Schema Definition of the message
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)
110	Too many digits	The number has too many digits
111	Too much precision	The number has a decimal part with too many digits
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 satisfied
152	Condition C002 failure	The condition C002 is not satisfied
153	Condition C003 failure	The condition C003 is not satisfied
154	Condition C004 failure	The condition C004 is not satisfied
155	Condition C005 failure	The condition C005 is not satisfied
156	Condition C006 failure	The condition C006 is not satisfied
157	Condition C007 failure	The condition C007 is not satisfied
158	Condition C008 failure	The condition C008 is not satisfied
159	Condition C009 failure	The condition C009 is not satisfied
160	Condition C010 failure	The condition C010 is not satisfied
181	Rule R001 failure	The rule R001 is not satisfied

Code	Name	Description
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
191	Rule R011 failure	The rule R011 is not satisfied
192	Rule R012 failure	The rule R012 is not satisfied
193	Rule R013 failure	The rule R013 is not satisfied
194	Rule R014 failure	The rule R014 is not satisfied
195	Rule R015 failure	The rule R015 is not satisfied
196	Rule R016 failure	The rule R016 is not satisfied
197	Rule R017 failure	The rule R017 is not satisfied
200	Invalid state	The state of an internal object is invalid, and no additional details are available for this error
201	Invalid guarantee status	The guarantee is not in a state that allows to perform the required operation
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	This error code is not used in the eTIR specifications v4.3, except in the context of the message pair I19/I20
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
309	Seals information already registered	The information received about the mentioned seal was already recorded in the database
310	Seals information should not be sent	The seal's information should not be sent in the record declaration data message
320	Holder/Guarantee mismatch	The holder id value and the guarantee reference 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 the International TIR Data Bank (ITDB)

Code	Name	Description
330	Guarantee chain not authorized	The guarantee chain is not authorized in the database
331	Guarantee chain/Guarantee mismatch	The guarantee chain code value and the guarantee reference value do not match what is recorded in the database
332	Guarantee type/Guarantee mismatch	The guarantee type parameter and the guarantee reference parameter do not match what is recorded in the database
333	Declaration reference not found	The value of the Original Message Identifier does not match what is already recorded in the database
334	Declaration already cancelled	The declaration could not be modified because it was already cancelled
400	eTIR internal error	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