

# SECTION IV - Technical Message Structure (TMS)

## 1. Data dictionary

### 1.2. Data groups

This chapter contains the different data groups that are part of NCTS Phase 3.1.

Every data group consists of a number of data items in a particular order. Every message is composed of a certain number of data groups in a particular hierarchy. Every data group is identified by a name. To be noted is that group names are not unique. It may thus very well happen that the same group name is found in different messages. Moreover, groups with the same name do not always include the same data elements. Defining data groups that contain all data elements that could potentially be part of it has solved this problem.

Later on, with the message definition, the data items which are to be included for a particular group or not will be specified.

Every data item within a group also has a sequence number. This sequence number is unique. The sequence numbers have been chosen more or less arbitrarily.

To be noted is that some data groups may not always have the same data item sequence in different messages.

Later on, with the message definition, the exact sequence of data elements in a particular group will be specified.

Furthermore, this chapter presents the overall data group structure of the messages in NCTS Phase 3.1. It should be seen as a merge of all the data groups supported during Phase 3.1.

The data groups are shown in a hierarchical format, where lower level data groups are indented with hyphens. The MESSAGE data group being the only data group at the top level, this is the only data group that appears without a hyphen in front of it and it comprises of all other data groups in a message.

```
MESSAGE
---HEADER
---(PRINCIPAL) TRADER
---(CONSIGNOR) TRADER
---(CONSIGNEE) TRADER
---(AUTHORISED CONSIGNEE) TRADER
---(DESTINATION) TRADER
---GUARANTOR
---(DEPARTURE) CUSTOMS OFFICE
---(PRESENTATION OFFICE) CUSTOMS OFFICE
---(TRANSIT) CUSTOMS OFFICE
---(DESTINATION) CUSTOMS OFFICE
---(RETURN COPIES) CUSTOMS OFFICE
---CTL_CONTROL
---CONTROL RESULT
---UNLOADING REMARK
---RESULTS OF CONTROL
-----ACTION
-----LANGUAGE SPECIFIC DATA
---REPRESENTATIVE
```

---SEALS INFO  
 -----SEALS ID  
 ---GUARANTEE  
 -----GUARANTEE REFERENCE  
 -----VALIDITY LIMITATION EC  
 -----VALIDITY LIMITATION NON EC  
 ---EN ROUTE EVENT  
 -----CTL CONTROL  
 -----INCIDENT  
 -----SEALS INFO  
 -----SEALS ID  
 -----TRANSHIPMENT  
 -----CONTAINERS  
 ---GOODS ITEM  
 -----PREVIOUS ADMINISTRATIVE REFERENCES  
 -----PRODUCED DOCUMENTS/CERTIFICATES  
 -----SPECIAL MENTIONS  
 -----RESULTS OF CONTROL  
 ----- (CONSIGNOR) TRADER  
 ----- (CONSIGNEE) TRADER  
 -----CONTAINERS  
 -----PACKAGES  
 -----SGI CODES  
  
 ---INTERCHANGE ERRORS  
 ---MESSAGE ERRORS  
 -----SEGMENT ERRORS  
 -----DATA ELEMENT ERRORS  
 ---FUNCTIONAL ERROR

## 1.2. Data items

This chapter describes the different data items that are part of NCTS Phase 3.1.

Every data item is identified by a unique name. The naming conventions are listed in section I – 4.3 of this document. To be noted is that every name will in principle contain some lowercase characters, except for the following:

- TIN
- NAD
- NAD LNG

Every data item has an associated type (which can be numeric, alphanumeric, or decimal), and in some cases a data item can have only discrete values, in which case the data item is said to have an associated code list.

To be noted is that there are two categories of free text fields within Transit:

- Fields with an associated language code (LNG field). This LNG field is supposed to contain the code of the language in which the text was originally written.
- Fields without such language code.

Furthermore, this chapter presents a complete list of all data items and their format used in the messages in NCTS Phase 3.1.

The data items are listed in alphabetical order.

| <b>Data item Format</b>                 | <b>Format</b> |
|---|---------------|
| Acceptance date                         | n8            |
| Access code                             | an4           |
| Acknowledgement request                 | n1            |
| Action identification                   | an..20        |
| Action taken by recipient               | an..3         |
| Action to be taken                      | an..350       |
| Action to be taken LNG                  | a2            |
| Additional information                  | an..70        |
| Additional information coded            | an..3         |
| Additional information LNG              | a2            |
| Additional information response code    | n2            |
| Agreed location of goods                | an..35        |
| Agreed location of goods LNG            | a2            |
| Agreed location of goods, code          | an..17        |
| Already in NCTS                         | n1            |
| Amendment acceptance date               | n8            |
| Amendment place                         | an..35        |
| Amendment place LNG                     | a2            |
| Amendment rejection date                | n8            |
| Amendment rejection motivation code     | n1            |
| Amendment rejection motivation text     | an..350       |
| Amendment rejection motivation text LNG | a2            |
| Amendment type flag                     | n1            |
| Application reference                   | an..14        |
| Arrival agreed location code            | an..17        |
| Arrival agreed location of goods        | an..35        |
| Arrival agreed location of goods LNG    | a2            |
| Arrival authorised location of goods    | an..17        |
| Arrival date                            | n8            |
| Arrival notification date               | n8            |
| Arrival notification place              | an..35        |
| Arrival notification place LNG          | a2            |
| Arrival rejection date                  | n8            |
| Arrival rejection reason                | an..350       |
| Arrival rejection reason LNG            | a2            |
| Ask for documents text                  | an..350       |
| Ask for documents text LNG              | a2            |
| Association assigned code               | an..6         |
| Authorisation id                        | an..17        |
| Authorised location of goods, code      | an..17        |
| Binding itinerary                       | an..140       |
| Binding itinerary LNG                   | a2            |
| Cancellation decision                   | n1            |
| Cancellation initiated by customs       | n1            |
| Cancellation justification              | an..350       |
| Cancellation justification LNG          | a2            |
| Cancellation reason                     | an..350       |
| Cancellation reason LNG                 | a2            |
| City                                    | an..350       |
| City LNG                                | a2            |
| Commodity code                          | an..10        |
| Commodity code (taric code)             | an..6         |
| Common access reference                 | an..35        |
| Communications agreement id             | an..35        |
| Complement of information               | an..26        |

|  |         |
|--|---------|
| Complement of information LNG              | a2      |
| Complete control                           | n1      |
| Conform                                    | n1      |
| Container number                           | an..17  |
| Containerised indicator                    | n1      |
| Continue unloading                         | n1      |
| Control date                               | n8      |
| Control indicator                          | an2     |
| Control result code                        | an2     |
| Controlled by                              | an..35  |
| Controlled by LNG                          | a2      |
| Controlled packages                        | an..70  |
| Controlling agency                         | an..2   |
| Corrected value                            | an..27  |
| Country code                               | a2      |
| Country of departure code                  | a2      |
| Country of destination code                | a2      |
| Country of dispatch/export code            | a2      |
| Country regime code                        | an3     |
| Customs office name                        | an..35  |
| Customs office usual name                  | an..35  |
| Customs office usual name LNG              | a2      |
| Customs sub place                          | an..17  |
| Date limit                                 | n8      |
| Date of amendment                          | n8      |
| Date of cancellation                       | n8      |
| Date of cancellation decision              | n8      |
| Date of cancellation request               | n8      |
| Date of control notification               | n8      |
| Date of OTS diversion arrival advice       | n8      |
| Date of passage                            | n8      |
| Date of preparation                        | n6      |
| Date of release request                    | n8      |
| Date of release request rejection          | n8      |
| Declaration date                           | n8      |
| Declaration place                          | an..35  |
| Declaration place LNG                      | a2      |
| Declaration rejection date                 | n8      |
| Declaration rejection reason               | an..350 |
| Declaration rejection reason LNG           | a2      |
| Description                                | an..140 |
| Description                                | an..70  |
| Description                                | an..35  |
| Description                                | an..350 |
| Description LNG                            | a2      |
| Dialog language indicator at departure     | a2      |
| Dialog language indicator at destination   | a2      |
| Discrepancies notification date            | n8      |
| Discrepancies notification text            | an..350 |
| Discrepancies notification text LNG        | a2      |
| Discrepancies solved notification code     | n..2    |
| Discrepancies solved notification date     | n8      |
| Discrepancies solved notification text     | an..350 |
| Discrepancies solved notification text LNG | a2      |
| Document reference                         | an..20  |
| Document reference LNG                     | a2      |

|   |          |
|---|----------|
| Document type   | an..3    |
| Document/reference number                               | an..21   |
| EEC territory limitation                                | n1       |
| Endorsement authority                                   | an..35   |
| Endorsement authority LNG                               | a2       |
| Endorsement country                                     | a2       |
| Endorsement date  | n8       |
| Endorsement place                                       | an.. 35  |
| Endorsement place LNG                                   | a2       |
| Enquiry at destination                                  | n1       |
| Enquiry notification date                               | n8       |
| Enquiry notification text                               | an.. 350 |
| Enquiry notification text LNG                           | a2       |
| Error   | n2       |
| Error pointer   | an..210  |
| Error reason  | an..4    |
| Error type  | n2       |
| Explanation   | an.. 350 |
| Explanation LNG   | a2       |
| Export from country                                     | a2       |
| Export from EC  | n1       |
| First day of requested period from                      | n8       |
| Geo info code   | an..6    |
| Geo-nomenclature code                                   | n3       |
| Goods description                                       | an..260  |
| Goods description LNG                                   | a2       |
| Goods release date                                      | n8       |
| Gross mass  | n..11,3  |
| Guarantee monitoring code                               | n1       |
| Guarantee not valid for country                         | n1       |
| Guarantee reference number (GRN)                        | an..24   |
| Guarantee type  | n1       |
| Identity of means of transport at departure (exp/trans) | an..27   |
| Identity of means of transport at departure LNG         | a2       |
| Identity of means of transport crossing border          | an..27   |
| Identity of means of transport crossing border LNG      | a2       |
| Incident flag   | n1       |
| Incident information                                    | an.. 350 |
| Incident information LNG                                | a2       |
| Incident notified                                       | n1       |
| Inland transport mode                                   | n..2     |
| Interchange control reference                           | an..14   |
| Interchange service segment                             | a3       |
| Invalid guarantee reason code                           | an..3    |
| Issuing date  | n8       |
| Item number   | n..5     |
| Kind of packages  | an..3    |
| Language code   | a2       |
| Language specific data LNG                              | a2       |
| Last day of requested period to                         | n8       |
| Legal references  | an..70   |
| Marks & numbers of packages                             | an..42   |
| Marks & numbers of packages LNG                         | a2       |
| Message identification                                  | an..14   |
| Message recipient                                       | an..35   |
| Message release number                                  | an..3    |

|   |          |
|---|----------|
| Message sender                                    | an..35   |
| Message service segment                           | a3       |
| Message type                                      | an..6    |
| Message version                                   | an..3    |
| Modification subtype                              | n1       |
| NAD LNG   | a2       |
| Name  | an..35   |
| Nationality of means of transport at departure    | a2       |
| Nationality of means of transport crossing border | a2       |
| NCTS accompanying document language code          | a2       |
| NCTS entry date                                   | n8       |
| NCTS return copy                                  | n1       |
| Net mass  | n..11,3  |
| New transport means identity                      | an..27   |
| New transport means identity LNG                  | a2       |
| New transport means nationality                   | a2       |
| No release motivation                             | an.. 350 |
| No release motivation LNG                         | a2       |
| Not valid for EC                                  | n1       |
| Not valid for other contracting parties           | a2       |
| Number of loading lists                           | n..5     |
| Number of packages                                | n..5     |
| Number of pieces                                  | n..5     |
| Operation   | a1       |
| Original attribute value                          | an..140  |
| Original message identification                   | an..14   |
| Other guarantee reference                         | an..35   |
| Other movement information request                | an.. 350 |
| Other movement information request LNG            | a2       |
| Other movement information response               | an.. 350 |
| Other movement information response LNG           | a2       |
| Place   | an..35   |
| Place LNG   | a2       |
| Place of loading, code                            | an..17   |
| Pointer to the attribute                          | an..35   |
| Position of erroneous data component              | n..3     |
| Position of erroneous data element                | n..3     |
| Postal code                                       | an..9    |
| Previous document reference                       | an..20   |
| Previous document reference LNG                   | a2       |
| Previous document type                            | an..6    |
| Priority  | a1       |
| Query identifier                                  | n..2     |
| Receiving application                             | an..14   |
| Recipient identification code qualifier           | an..4    |
| Recipient's reference/password                    | an..14   |
| Recipient's reference/password qualifier          | an2      |
| Reference number                                  | an..22   |
| Reference number                                  | an8      |
| Reference number higher authority                 | an8      |
| Reference number main office                      | an8      |
| Reference number take-over                        | an8      |
| Reference quantity                                | n..6     |
| Release request rejection reason                  | an.. 350 |
| Release request rejection reason LNG              | a2       |
| Release requested                                 | n1       |

|  |          |
|--|----------|
| Remark                                     | an.. 350 |
| Remark LNG                                 | a2       |
| Representative capacity                    | a..35    |
| Representative capacity LNG                | a2       |
| Requested additional information code      | n1       |
| Responsible data manager                   | an..35   |
| Seals identity                             | an..20   |
| Seals identity LNG                         | a2       |
| Seals number                               | n..4     |
| Security code                              | an..8    |
| Segment position in message                | n..6     |
| Sender identification code qualifier       | an..4    |
| Sending application                        | an..14   |
| Sensitive goods code                       | an2      |
| Sensitive quantity                         | n..11,3  |
| Simplified procedure flag                  | n1       |
| Space to add                               | n1       |
| Specific notes code                        | an..6    |
| State of seals ok                          | n1       |
| Statistics type                            | an3      |
| Status                                     | an3      |
| Street and number                          | an..35   |
| Street and number LNG                      | a2       |
| Syntax error                               | n2       |
| Syntax identifier                          | a4       |
| Syntax version number                      | n1       |
| TCC entry date                             | n8       |
| Telex number                               | an..35   |
| Test indicator                             | n1       |
| Time limit of response                     | n8       |
| Time of preparation                        | n4       |
| TIN  | an..17   |
| Total gross mass                           | n..11,3  |
| Total number of items                      | n..5     |
| Total number of packages                   | n..7     |
| Trader dedicated                           | n1       |
| Traffic type                               | an..3    |
| Transshipment notified                     | n1       |
| Transit operation state type               | an..3    |
| Transport mode                             | n..2     |
| Transport mode at border                   | n..2     |
| Type of declaration                        | an..9    |
| Type of means of transport crossing border | n..2     |
| Unloading completion                       | n1       |
| Unloading date                             | n8       |
| Unloading remark                           | an.. 350 |
| Unloading remark LNG                       | a2       |
| Unloading remarks rejection date           | n8       |
| Unloading remarks rejection reason         | an.. 350 |
| Unloading remarks rejection reason LNG     | a2       |
| Validity date                              | n8       |
| Waiting for discrepancies resolution       | n1       |
| Write-off date                             | N8       |

Table 13 – Use of data items

### 1.3. Code lists

A code list is a set of discrete values, with an associated meaning. Code lists are included in appendix C.

Code lists are identified by a name and a number. Code lists are generally speaking maintained by the central reference application (CS/RD) of the European Commission. Our administration downloads the amended code lists from this reference site and puts it at the economic operators disposal.

There are a number of code lists for which the values are predefined and fixed. These values will never be updated and/or downloaded on/from the references site. Fixed code lists are also marked in appendix C.

## 2. Technical message structure

The structure and format of the different IEs is included in appendix Q. This appendix contains a message format description for every IE that is part of Phase 3.1.

The technical message description is supplied in two parts.

The first part is the overall message description. This description contains the overall layout of the messages. It defines the different data groups that are part of the message, the sequence of the groups, the level of hierarchy of the data groups, the optionality of the data group, the possible repeat count, and associated rules and conditions. Concerning the optionality, it should be noted that the following rules apply:

- If a data group is always required, it is marked as “R”;
- If there are some rules and conditions related to the presence of the data group, it is marked as ‘D’;
- If there are no rules and conditions related to the presence of a particular data group, it is marked as ‘O’. This means that the user can freely decide to include this data group or not.

It should also be noted that, in order to go down one level in the hierarchy, the data group at the higher level in the hierarchy needs to be present.

The second part of the TMS contains the description of the different data items. This description includes the sequence of the data elements in the group, the optionality, and the associated rules and conditions.

Concerning the optionality of the data items, the following rules apply:

- If a data item is always required, it is marked as “R”;
- If there are some rules and conditions related to the presence of the data item, it is marked as ‘D’;
- If there are no rules and conditions related to the presence of a particular data item, it is marked as ‘O’. This means that the user can freely decide to include this data item or not.

Concerning the rules and conditions, the rules and conditions from the FTSS have been copied. These are marked as Rule xxx and Cond yyy as in the FTSS. Additional technical rules have been added as well. These have been marked as TR xxx.

To be noted are that not all rules and conditions of the FTSS have been copied.

Additional explanation on the message format is included in appendix Q.

The message description part of this document consists of message hierarchies, correlation tables to map the IEs to these hierarchies, and mappings to the different used EDI-formats (EDIFACT).

The status codes used for data groups and data items for FMS is related to the status codes used in this guideline as follows:

| Status description | FTSS status code | DDNTA status code | EDIFACT status code |
|--------------------|------------------|-------------------|---------------------|
| Required/mandatory | R                | R                 | M                   |

|                       |   |   |   |
|-----------------------|---|---|---|
| Optional              | O | O | C |
| Dependent/Conditional | C | D | C |

*Table 14 - Use of status codes*

The status codes of this guideline are used in the Correlation tables in Appendix I, the TMS in Appendix Q, and the right-hand columns of the mapping tables of Appendix H.

The EDIFACT status codes appear in Appendix H in the left-hand columns of the mapping tables.

### 3. NCTS consistency

The IEs are aligned with the Single Administrative Message (SAM) Mapping Guide. As the SAM Mapping Guide covers import, export, and OTS and needs to cover NCTS in some cases, changes have been made to IEs where more detail needed to be added.

**The details of all changes between the TMS and the SAM and/or FTSS are included in Appendix Q for consistency reasons**

Since this appendix defines the detailed list of the Technical Message Structures, it starts by first explaining the deviations from the FTSS and the SAM Mapping Guide.

As a general overview, the major changes between TMS and FMS and SAM are:

- Changing in the naming conventions, some names have been changed between the TMS and the FMS;
- Expansion of IEs inside other IEs  
FTSS presents some messages inside messages. In this guideline the content of the sub-messages has been put in the master-message;
- Message group  
This data-group is added in every message;
- Implementation of FMS conditions and rules;
- Technical Rules and Conditions.