Cyprus Export Control System (ECS)

Phase 2

MESSAGES FOR EXTERNAL USERS

Appendix A Guidelines for reading Technical Messages

Department of
Customs & Excise

1 Introduction

This appendix describes the detailed structure of each Functional Message Structure (FMS) for ECS messages.

FMSs are organised into data groups that contain data items. A data group is not necessarily the equivalent of a database entity. The data items are grouped together in such a way that they build up coherent logical blocks within the scope of each FMS.

The detailed structures are listed from the CSE database, comprising:

- The characteristics of the data groups belonging to the FMS:
  sequence, number of repetitions, status value to indicate if the data group is mandatory (R: Required), optional (O: Optional) or conditional (D: Dependent).
- The characteristics of the data items belonging to a data group : sequence, number of repetitions, type, length and a value to indicate if a data item is mandatory (R: Required), optional (O: Optional) or conditional (D: Dependent).
- Data group indentation to indicate that the data group may contain not only data items but also other groups of data.
- Rules and Conditions applying.

2 Representation of FMSs

IE15 (a) (b) **DECLARATION DATA** (c) **(E_DEC_DAT)**

(B)

HEADER (a)	1x (b)	R (c)	(f)
(AUTHORISED CONSIGNEE) TRADER	1x	O	R015
CONTROL RESULT	1x	O	
GUARANTEE	9x	R	
---GUARANTEE REFERENCE (d)	99x	D	C085
------VALIDITY LIMITATION EC	1x	O	
GOODS ITEM	999x	R	R095
---CONTAINERS	99x	D	C055
---PACKAGES	99x	O	

(C)

HEADER (a)

Reference number (b)	R (c)	an (d) ..22 (e)	Rule 123 (f)
Type of declaration	R	an..9	Cond 234
Number of loading lists	O	n..5	TR900
Total number of packages	D	n..7	

The IE model is divided into three parts:

(A) The identification part, each IE is identified by:
- a unique number that consists of the two characters 'IE' followed by a maximum of 3 digits (a);
- the title of the message (b);
- a unique reference (c) in a one to one relationship with the unique number of the IE; each IE is prefixed with 'E_' (external domain), 'C_' (common domain).

(B) The structure part provides the following:
- the sequence of the data groups in the IE;
- a data group name (a);
- a number followed by the character 'x' (b) indicating how many times the data group is repeated in the IE;
- a value (c) indicating whether the data group is (R)equired, (O)ptional or conditional (D: Dependent);

- when any Rules or Conditions apply, a reference (f) is provided;
- data group indentation (d) indicates that the data group depends on lower indent data group.

(C) The 'data group' detail part provides for each attribute the following:

- the sequence of attributes within a data group;
- a data group name (a), as in the structure part;
- the attribute name (b) within the data group;
- a value (c) indicating whether an attribute is (R)equired, (O)ptional or conditional (D: Dependent);
- the data type of a data item (d): (a)lphabetic and/or (n)numeric;
- the attribute length (e) (the optional 2 dots before the length indicator mean that a data item has no fixed length, but it can have up to a number of digits, as specified by the length indicator); it must be noted that the data type / attribute length of fields representing a date is always 'n8' in order to be year 2000 compliant (e.g. 19980220); also, a comma in the data item length (e.g. 11,3), means that a data item can hold decimals, the digit before the comma indicates the maximum total length of an data item, the digit after the comma indicates the maximum number of digits after the decimal point;
- The FTSS - AES ADDENDUM [A4] Rules and Conditions (f) or Technical Rule (TR) applying.

3 Documented amendments

The IEs were aligned with the Single Administrative Message (SAM) Mapping Guide, where relevant. As the SAM Mapping Guide covers export (ECS) changes have been made to an IE in some cases. In other cases, more detail needed to be added.

3.1 SAM Mapping guide alignment

The FMS specified in Appendix B1 of FTSS – AES ADDENDUM [A4] is changed on the following aspects for the various reasons mentioned:

- To align with SAM, the data group 'EXPORT OPERATION' is renamed into 'HEADER' to support export (ECS).

- The data item HEADER.Document/reference number equals MRN (Movement Reference Number). It is mapped to SAD box number A (Document/reference number) in line with the SAM Mapping Guide. [Note that the mapping of the MRN to the SAD box A is for the purpose of alignment of FMS with SAM mapping to UN/EDIFACT and not for printing purposes.]

- All date formats are n8 for both ECS and the SAM Mapping Guide, with the exception of the date exchanged in the UNB segment (n6).

- The NAD LNG field that is used to define the language of name and address fields in the TRADER groups, is considered Optional and is checked against TR0099 (changed from Required as defined in FTSS - AES ADDENDUM [A4])

3.2 Further Changes

Various data item names are aligned with the SAM Mapping Guide. Furthermore, other data item names have been made consistent throughout all FMS, e.g. all data items referring to language codes end with 'LNG'.

These changes are listed in the Appendix Q2 – part 2, at the start of the detailed FMS Structure Report in the tables:

- FORMAT DIFFERENCES
- NAMING DIFFERENCES

3.2.1 Explanatory Notes

The following applies to the FORMAT DIFFERENCES table:

1. The reasons for changes are:
   - Alignment with the SAM Mapping Guide (SAM).
   - Agreement to implement changes with EC/DGXXI/B3 (agreed).
   - Subsets to be used by ECS.
   - Harmonisation of same fields among messages

2. Specification of the code list to be used will constrain the format of the following data items to that shown in the 'FMS format' column:
   - Kind of packages.
   - Unit of measure.

3. Format of Commodity code is to be characters, rather than numeric, to avoid suppression of leading zeroes. Entry validation, however, will accept only characters 0-9 with trailing spaces.

4. Format of *MESSAGE - GOODS ITEM - (CODE) COMMODITY.Combined Nomenclature* has been defined as an8 in IE501 and an..8 in IE601 in the FTSS. In order to implement this for both messages format an..8 will be used and TR1008 will be applied to the *MESSAGE - GOODS ITEM - (CODE) COMMODITY.Combined Nomenclature* of the IE501 message.

3.3 From FMS to TMS

The following details have been added to the IEs:

3.3.1 RESULTS OF CONTROL.Corrected value

This field did not have a format. Format an..27 has been selected since this is the longest value of a corrected data item of 'EXPORT OPERATION' that can be exchanged.

3.3.2 Message group

The MESSAGE group has been added for every IE. This message group corresponds to a number of EDIFACT header fields.

In general, exchange of messages requires control information. This control information, which is basically the information contained in the UN/EDIFACT UNB and UNH segments, is added to all FMS by the data group MESSAGE. The control information is of a technical nature and as such not specified.

Not all control information is relevant to an ECS application but might be added and removed by a UN/EDIFACT converter if UN/EDIFACT is used to exchange messages. The following elements are at least required by an ECS application processing IEs:

Data item	Reason
Message sender	required for detecting the proper sender at reception
Message recipient	required for sending a message to its proper Destination
Message identification	unique reference of a message within an MRN assigned by the sender of that message
Message type	string identifying the number of the IE, the domain in which it is used, and the version
Test indicator	to indicate the difference between testing using an testing tool.

Table 1: Control data items required by an ECS application

It is up to each application developer and NA to decide on the use of the other elements of the MESSAGE data group.

3.3.3 Expansion of IEs including other IEs

Two alternative approaches are possible:

1. Completely include the "sub"-IE.
   This may however pose some problems with duplication of information.

2. Merge some of the "sub"-IE information with the "master"-IE.

The second solution has been followed as much as possible. The following paragraphs explain how each case of "IE inside IE" was handled to arrive at a unique and consistent representation.

3.3.3.1 IE503 (C_AER_RSP)

A positive C_AER_RSP will include the original IE501 (C_AER_SND) as a whole, while a negative will include only the HEADER, including the 3 additional AER rejection reason fields, (EXPORT) CUSTOMS OFFICE and (ACTUAL EXIT) CUSTOMS OFFICE.

As the (EXPORT) CUSTOMS OFFICE is already present, and is 'Required', on the IE501, it has not been included again, but becomes required on the IE503. The (ACTUAL EXIT) CUSTOMS OFFICE has been added.

Technical rules TR200 - TR204 have replaced rule 215. These apply to the different structures of the positive/negative IE503.

3.3.3.2 IE505 (E_EXP_ARJ)

A positive E_EXP_ARJ will include the original IE515 (E_EXP_DAT) as a whole, while a negative will include only the HEADER, including the 4 additional AER rejection reason fields, (EXPORT) CUSTOMS OFFICE and (DECLARANT) TRADER.

3.3.3.3 IE508 (E_ARR_REJ)

A positive E_ARR_REJ will include the original IE507 (E_ARR_EXT) as a whole, while a negative will include only the HEADER, including the 5 additional AER rejection reason fields.

3.3.3.4 IE513 (E_EXP_AMD)

In the message E_EXP_AMD will be transmitted a whole IE515 (E_EXP_DAT). Additionally the Rule 115, Rule 854 and Rule 862 apply on the IE513.

3.3.3.5 IE516 (E_EXP_REJ)

A positive E_EXP_REJ will include the original IE515 (E_EXP_DAT) as a whole, while a negative will include only the HEADER, including the 3 additional AER rejection reason fields.

3.3.3.6 IE519 (E_ECR_REJ)

A positive E_ECR_REJ will include the original IE517 (E_EXP_CON) as a whole, while a negative will include only the HEADER, including the 3 additional AER rejection reason fields.

3.3.3.7 IE529 (E_REL_EXP)

In the message E_REL_EXP a whole IE515 (E_EXP_DAT) will be transmited with the CONTROL RESULT information.

3.3.3.8 IE538 (C_EXP_RSP)

In the message C_EXP_RSP a whole IE501 (C_AER_SND) will be transmitted with (EXPORT) CUSTOMS OFFICE , (REQUESTER) CUSTOMS OFFICE and CTL_CONTRO information.

3.3.3.9 IE548 (E_MAN_VAL)

A positive E_MAN_VAL will include the original IE547 (E_MAN_PRE) as a whole, while a negative will include MANIFEST REGISTRATION, MANIFEST REJECTION, TRADER AT EXIT (CARRIER), (ACTUAL EXIT) CUSTOMS OFFICE information.

3.3.3.10 IE551 (E_EXP_NRL)

In the message E_EXP_NRL a whole IE515 (E_EXP_DAT) will be transmitted with RESULTS OF CONTROL and CONTROL RESULT information.

3.3.3.11 IE562 (E_EXP_RRR)

A positive E_EXP_RRR will include the original IE554 (E_EXP_RRQ) as a whole, while a negative will include only the HEADER including the 3 additional fields.

3.3.3.12 IE599 (C_EXP_NOT)

In the message C_EXP_NOT a whole IE515 (E_EXP_DAT) will be transmitted with (EXPORT) CUSTOMS OFFICE, (EXPORTER) TRADER and VAT/EXCISE/CAP/OTHER AUTHORITIES/OTHERS information.

3.3.3.13 IE601 (C_EXS_SND)

In the message C_EXS_SND a whole IE615 (E_EXS_DAT) will be transmitted with RISK ANALYSIS, (LODGEMENT) CUSTOMS OFFICE and (EXIT) CUSTOMS OFFICE information.

3.3.3.14 IE603 (C_EXS_RSP)

In the message C_EXS_RSP a whole IE601 (C_EXS_SND) will be transmitted with (LODGEMENT) CUSTOMS OFFICE and (ACTUAL EXIT) CUSTOMS OFFICE information. A positive C_EXS_RSP will include the original IE601 (C_EXS_SND) as a whole, while a negative will include only the HEADER, including the 3 additional Summary Declaration rejection reason fields, (LODGEMENT) CUSTOMS OFFICE and (ACTUAL EXIT) CUSTOMS OFFICE.

As the (LODGEMENT) CUSTOMS OFFICE is already present, and is ‘Required’, on the IE601, it has not been included again, but becomes required on the IE603. The (ACTUAL EXIT) CUSTOMS OFFICE has been added.

Technical rules TR200 - TR204 have replaced rule 215. These apply to the different structures of the positive/negative IE603.

3.3.3.15 IE605 (E_EXS_ARJ)

A positive E_EXS_ARJ will include the original IE613 (E_EXS_AMD) as a whole, while a negative will include only the HEADER, including the 4 additional AER rejection reason fields and (ACTUAL EXIT) CUSTOMS OFFICE , (LODGING THE SUMMARY DECLARATION) PERSON and (REPRESENTATIVE) TRADER information.

3.3.3.16 IE613 (E_EXS_AMD)

In the message E_EXS_AMD a whole IE615 (E_EXS_DAT) will be transmitted with the Rules 115, 853, 856 and 870.

3.3.3.17 IE616 (E_EXS_REJ)

A positive E_EXS_REJ will include the original IE615 (E_EXS_DAT) as a whole, while a negative will include only the HEADER, including the 3 additional AER rejection reason fields.

3.4 Implementation of FTSS Rules and Conditions

The FMS specified in Appendix B1 of FTSS - AES ADDENDUM [A4] contain rules and conditions. The conditions are not implemented in DDNTA, because they refer to the content of exchanged messages.

Not all rules have been implemented in the DDNTA. Those that are implemented have been implemented either as code values or as status of a data item, or in the structure of an FMS.

The following rule has been implemented as code values:

- Rule 230 are code values '0' or '1' of a flag;

The following rules have been implemented by the status of a data item:

- Rule 11, 215, 831, 832 and 838

The following rules are implemented by the structure of an FMS:

Rule number	IE no.	IE Name
150	518	Exit Results
115	513	Export Declaration Amendment
	613	Exit Summary Declaration Amendment
123	505	Export Declaration Amendment Rejection
	508	Arrival At Exit Rejection
	516	Export Declaration Rejected
	519	Export Control Results Rejected
	548	Manifest Validation
	562	Export Release Request Rejection
	605	Exit Summary Declaration Amendment Rejection
	616	Exit Summary Declaration Rejected
135	551	Export No Release
143	501	AER
	529	Release for Export
	551	Export No Release
150	517	Export Control Results
	518	Exit Results
210	518	Exit Results
215	503	AER response

Rule number	IE no.	IE Name
210	518	Exit Results
212	517	Export Control Results
215	503 603	AER response EXIT Summary Declaration Response
410	30 31 32 931 932	Notification of Customs Offices Modification to CD Notification of Customs Offices Modification to ND Notification of Common Reference Data Modification to ND COL Data Common RD
411	70 71 971	Notification of System Unavailability to CD Notification of System Unavailability to ND Full Unavailability Schedule

Table 2: Rules implemented in an FMS structure

3.5 Technical Rules and Conditions

Technical Rules have been introduced to cater for particular situations:

- Implementation of the technique of RESULTS OF CONTROL as defined originally by the C_EXT_RES;
- Optional contents of a message dependent on whether the request can be positively answered (e.g. the declaration data sent to the requester) or negatively (an error code returned by the system or explanatory text from a Customs Officer);
- Attributes Required or not dependent on the message direction (to/from Central Services);
- Rules applicable to Technical Messages;
- Improved wording of a rule.

Correlation between the Technical Rules and the FTSS - AES ADDENDUM [A4]Rules/Conditions is shown by the following Table:

Functional Area	Technical Rules	FTSS Rules/Conditions
RESULTS OF CONTROL	TR01 to TR19	R150 R210
_LNG	TR0099	C99
Optional contents of a message	TR200 to TR203 TR0215	R215
Optional contents of a message	TR0216	R216
Optional contents of a message	TR9202 TR9203	C573 C575
Total number of packages	TR0052	R105 R830
PREVIOUS ADMINISTRATIVE REFERENCES, PRODUCED DOCUMENTS CERTIFICATES	TR0100 TR0103	R79 R79

Table 3: Application of Technical Rules

3.6 Results of Control

For any corrected 'EXPORT OPERATION' data items, both the original and corrected values are exchanged. For each new or corrected 'GOODS ITEM', the complete set of data items is exchanged.

3.6.1 Export Operation

Each data item of 'EXPORT OPERATION' can be accompanied by a control indicator with the value 'DI' (Differences) or 'OT' (Other). When there are differences detected, the original and corrected values are exchanged. Otherwise, only the original values are exchanged.

The original values of data items of 'EXPORT OPERATION' are exchanged by the original data group; the corrected values by the data group 'RESULTS OF CONTROL'. A pointer is given in the 'RESULTS OF CONTROL' to the box number of the corrected data item (the structure of the pointer is specified below).

When the control indicator is 'DI', the pointer to the data item and the corrected value are required. When the control indicator is 'OT', the pointer to the data item and the corrected value are optional.

3.6.2 Goods Item

Each goods item can have one or more occurrences of 'RESULTS OF CONTROL' with 'Control Indicator' values of

'OR' (Original),
'DI' (Difference),
'OT' (Other),
'NP' (Not Present).

The following possibilities can occur:

- In the case of a discrepancy, the original goods item and the corrected one are exchanged. The original goods item group is indicated by an occurrence of 'RESULTS OF CONTROL' with 'Control Indicator' value 'OR' (Original). The corrected goods item group is indicated by an occurrence of 'RESULTS OF CONTROL' with 'Control Indicator' value 'DI' (Differences).). If the totals of 'EXPORT OPERATION' are affected by any changes at goods item level, these are exchanged as 'EXPORT OPERATION' above.
- In the case of a missing 'Goods item', the original goods item and the corrected one (ie an empty group except the 'Item number' field and the 'RESULTS OF CONTROL' groups) are exchanged. The original goods item group is indicated by an occurrence of 'RESULTS OF CONTROL' with 'Control Indicator' value 'OR' (Original). The corrected goods item group is indicated by an occurrence of

'RESULTS OF CONTROL' with 'Control Indicator' value 'DI' (Differences) and optionally an 'OT' 'RESULT OF CONTROL' group.). If the totals of 'EXPORT OPERATION' are affected by any changes at goods item level, these are exchanged as 'EXPORT OPERATION' above.

- In the case of one or more documents not being presented for a goods item, the corrected goods item group is exchanged with an additional occurrence of 'RESULTS OF CONTROL' for each of the missing documents, with 'Control Indicator' value 'NP'. The pointer in 'RESULTS OF CONTROL' refers to the particular occurrence of 'PRODUCED DOCUMENTS/ CERTIFICATES' which is missing from that goods item. Upon receiving a ROC = "NP" the OoDep will determine a procedure for ascertaining which document has not been presented. Their options are to perform a computerised check of the two items returned (the original with ROC = "OR" and the other with ROC = "DI" and also ROC = "NP"), or to print/display the two versions of the item so that the Customs Officer can identify which document has not been produced.
- In the case of some other reportable situation (ie a comment on a 'Goods item') which is not a discrepancy, the goods item group is exchanged with one 'RESULTS OF CONTROL' with 'Control Indicator' value 'OR' (Original) and one or more additional occurrences of 'RESULTS OF CONTROL' with 'Control Indicator' value 'OT'.
- In the case of a new goods item being discovered, only the values of that new goods item are exchanged, there being no original values. The 'Control Indicator' of 'RESULTS OF CONTROL' of the new goods item group has value 'NE'. Totals of 'EXPORT OPERATION' need to be updated according to the changes at goods item level.

The pointer in 'RESULTS OF CONTROL' refers to the box number of the Export Accompanying Documents [S22] of a particular data item. Where the data item is a further subdivision or if a particular occurrence of a document needs to be identified, this is denoted by :

'box_number' # 'subdivision/occurrence'

NB:

- 'occurrence' refers to the sequence in which the information was sent.
- the '/' indicating that either a subdivision or an occurrence is given.
- Example 1 (subdivision):
  18#1 refers to 'Identity of means of transport at departure (the first subdivision of Box 18)'
- Example 2 (occurrence):
  If the third document is missing, this is indicated as 44#3 (since documents are listed in Box 44).