



## EDI Manual

### Customs declaration ECS Netherlands/Belgium for the Ports of Amsterdam, Rotterdam and Antwerp

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## Change requests

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## Used tools

Number	Used tools
W1	This document was produced with the word processing programme <b>MS Word 2010</b> .

## Liability

1. Please note that no liability claims can be derived towards DAKOSY AG for the content of this manual, despite careful developing and examination of this document!

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# 1. Introduction

The communication with the Dutch customs for customs declarations of exports at the ports of Rotterdam and Amsterdam to the Export Control System (ECS) is conducted by the Dutch Port Community System Portbase – analogous to the German ports Bremen (DBH) and Hamburg (DAKOSY) with the German customs in the AES process.

Likewise, the communication with the Belgium customs is handled via the Belgium Port Community System eBalie.

This manual describes the transmission of the message „Customs declaration ECS“ for the Netherlands and Belgium.

The field number format is based on the HDS, the transaction remains DY01.

Due to missing port references (in Hamburg: B or Z number) all confirmations solely refer to the position number and are provided in form of the reference confirmation record or an APERAK (GM01).

This manual describes EDI messages in field number form – reduced to the requirements of customs declaration data ECS Netherlands/Belgium -, the reference confirmation records for OK and error messages 2. level (Portbase/eBalie) and the workflow/ message scenario.

The field numbers of the original HDS can be part of the transmission, but will not be stored. Incorrect data sequences will not be returned, only the reference confirmation record with the error number will be issued.

The APERAK corresponds with– except the missing port reference – the APERAK to the presentation notification.

## 2 Sending of customs declarations ECS Netherlands/Belgium

### 2.1 Form category codes and data cancellation

The forms for the individual Quay Order categories are to be coded with a clear, three-digit form category key „HDS“ in the field 002 (see chapter 5 **The field number group customs declaration ECS Netherlands/Belgium**).

#### Type of form

#### Form category key

##### *Version 04*

- HDS                      HDS/SPB

Data cancellations (SPB) are to be transmitted, if the information of the transmission must be corrected. The data cancellation is mandatory in case of a transmitted error message from the Dutch Port Community System Portbase respectively the Belgium Port Community System eBalie. Details to the process are described in chapter 5.

If the participant transmits the initialisation record, transaction DY01 has to be chosen and job order code „EC“ has to be sent at digits 23 -24.

### 2.2 Reference to customs declaration ECS

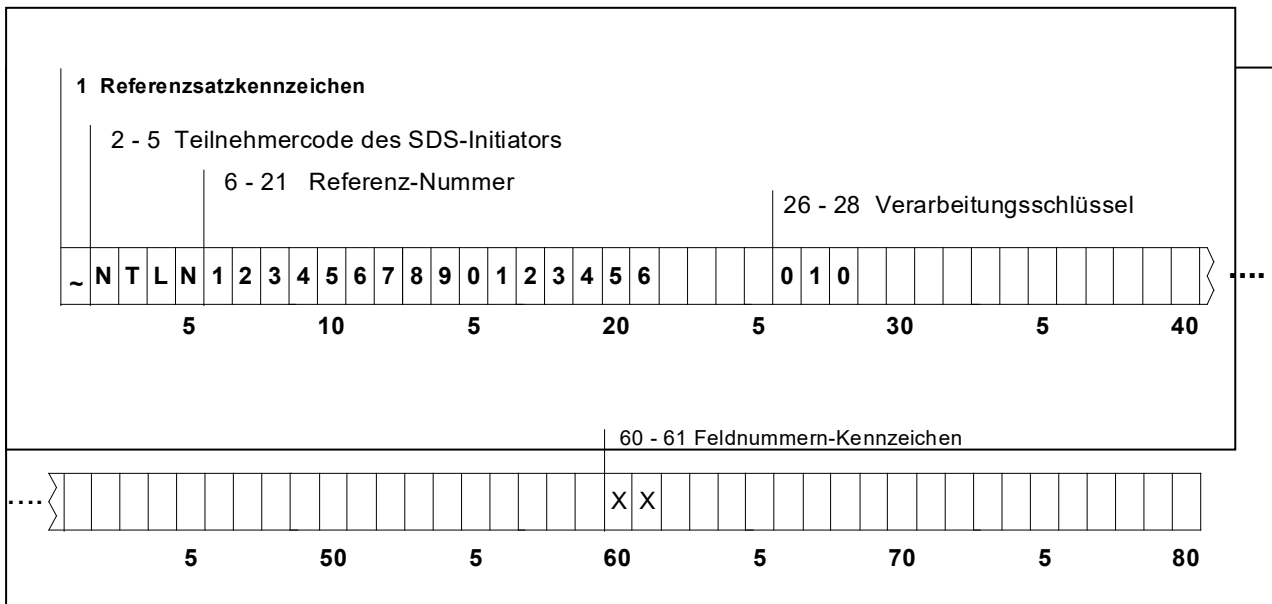
For each new creation (even after cancellation) in principle a clear reference (generally the shipper's position number) is to be given as a key. It is allocated by the initiator of the transmission.

### 2.3 The reference record

The structure of the reference record is shown in figure 1:

The structure of the reference record is illustrated in the following diagram. Concerning the **address and field number group** of the data records, chapter 5 is referred to, in which the corresponding rules and formatting are described in detail.

Figure 1 – The reference record



- Digit 1            Reference record code: ~ (tilde, hex. 59) or ^ (roof, hex. 5F)  
(the receiver uses only the **tilde**)
- Digits 02 - 05    Participant code
- Digits 06 – 21    Reference number
- Digits 22 – 25    do not use
- Digits 26 – 28    Processing key
- Digits 29 – 59    do not use
- Digits 60 – 61    Field number code
- Digits 62 – 80    do not use



- Digit 1 Reference record code § (hex. 7c)
- Digits 2 - 5 Main reference code from the sign-on record
- Digits 6 – 15 Session number from the sign-on record
- Digits 16 – 20 Number of data sequences with no errors
- Digits 21 – 25 Number of data sequences with errors
- Digits 26 – 28 Processing key „998“ = session confirmation

### 2.5.2 The reference confirmation record (for called-off data sequences)

Cancelled: The confirmation/acknowledgement or rejection from Portbase/eBalie is transmitted in form of an APERAK.

### 2.5.3 The reference confirmation record with error code

- If an error was found when checking the field, the error will be returned, the data sequence with errors will not be returned.

The error code will be included in fields 29 - 31 of the reference record, transmitted by the sender. The meaning of the error codes can be found in the DAKOSY key list (see the DAKOSY home page: <http://www.dakosy.de/>).

Example: Error code 300 = inadmissible repeating of reference number

The error codes of error reports, assigned by Portbase/eBalie, start with the characters B and C.

With the help of the error code the participant can find and remove the error without any problems.

- Replies with information and warnings have the same structure as the error report. The data sequence will be processed with the restrictions, given by information/warnings.



### 3 The field number group customs declaration for ECS Netherlands/Belgium

All fields are alphanumeric, numeric fields are identified accordingly. A processing of packed or binary fields does not take place. When transmitting numeric field contents, leading zeros have to be transmitted. Decimal points (, and .) must not be transmitted.

#### 3.1 Legends

**M/K** stands for **M**uss (mandatory) or **K**ann (optional) field

Fields which contains **M** in his column **must** be transmitted, otherwise the field number group will be rejected as having errors.

Fields with the code **M/K**, are mandatory under certain conditions.

**Z** stands for **Z**eilenstrukturfeld (line structure field)

Fields which contain the entry “J” (= yes), can be sent more than once, at the most 999 times. They are identified by the field number in association with the line number. For example a two-digit entry for the field “comments” with the field numbers “030001” and “030002” is to be transmitted.

**n** after the field length refers to a field with numerical content.

## 3.2 Structure of the field number group customs declaration ECS Netherlands/Belgium

### 3.2.1 Address fields

Address fields may be omitted, except the participant/carrier for ECS Netherlands/Belgium.

<b>Structure of address</b>			
<b>Field no.</b>	<b>Field description/ Comments</b>	<b>Field length</b>	<b>Field content</b>
V**	Participant shipper (SZ-issuer)	an 4	see DAKOSY participant code
K**	Participant warehouse	an 4	see DAKOSY participant code
M**	Participant agent/broker	an 4	see DAKOSY participant code
T**	Participant tally	an 4	see DAKOSY participant code
F**	Participant FOB shipper	an 4	see DAKOSY participant code
Z**	Participant authorities	an 4	HZA Hauptzollamt Hamburg-Hafen (main customs office of the port of Hamburg), Zollamt Waltershof (Waltershof Customs Office), Abfertigung Ericus (Ericus Customs Clearance) Free port (FHA) for ECS Netherlands the DAKOSY participant code POBA and for ECS Belgium the DAKOSY participant code EBAI

## 3.2.2 Quay order fields

## Structure of quay order field number group

Field no.	M/K		Field description	Field length	Comments
001	D	N	Version no.	an 2	HDS for Customs declaration ECS Netherlands/Belgium has to be transmitted with version „04“
002	M	N	Type of form	an 3	HDS
004	M	N	Date of request	an 6	YYMMDD
010	M	N	Employee	an 40	Employee; ECS receives 35 characters max
020	M	N	Departure (ets) arrival (eta)	an 6	DDMMYY
021	M	N	Voyage number	an 7	For ECS always XXX9999
024	M	N	Port of discharge name	an 19	
025	M/K	N	Port of discharge code	an 6	DAKOSY code, alternative to field 097, see key list
026	K	N	Final destination	an 19	Port of Destination
A27	K	J	Marks and labels	an 20	See chapter 3.2.4.1 Shipment description fields A27 – E27
B27	M	J	Number of packages	6 n	Numeric field type Leading zeros are not printed in the KA
C27	M	J	Packing code	an 2	KA proof = full text, see chapter 3.2.4.1 Shipment description fields A27 – E27
D27	K	J	Description of goods	an 24	
E27	M	J	Weight	10 n	Gross weight(excluding container tare) Numeric field type 7-digit + 3decimal places, see chapter 3.2.4.1 Shipment description fields A27 – E27
028	M	J	Container data	an 32	KZ for FCL shipments See chapter 3.2.4.2 Field 028 and 166
032	K	N	Email address of the employee	an 56	ECS receives 50 characters max
033					Is not used
034	K	N	Carrier code	an 4	SCAC code of the carrier
036	M	N	Fax number of the employee	an 40	ECS receives 15 characters max
037	M	N	TEL number of the employee	an.40	The transmission of 35 characters max is recommended
039	K	N	TIN participant identification number of the issuer/participant code of issuer at Portbase/ECS NL	n 7	Mandatory for notification type AES and AEM, if not ATLAS selfdeclarant. This field is only to be used for the HDS! Mandatory for notification type ECS
040	M	N	Issuer of the EORI	an 25	Exclusively used and mandatory in case of

Field no.	M/K		Field description	Field length	Comments
					the declaration type ECS
166	M	J	Booking number	an 38	Booking number - see A for structure
097	M	N	Port of loading code	an 6	For ECS Netherlands: NLRTM or NLAMS For ECS Belgium: BEANR

**A**

Structure of field 166 booking number

Digits 1-3 sequential number within SB line corresponding to field 028 container number

Digits 4-38 Booking number

**3.2.3 Customs reference fields for customs declaration ECS Netherlands/Belgium**

Field no.	M/K		Field description	Field length	Comments
101	M	J	Line of data record	an 3	see A
103	M	J	Type of notification	an 3	For ECS Netherlands: see C For ECS Belgium: EX, EU, CO, T1T-
160	M/K	J	AES customs reference	an 27	Mandatory for notification type ECS. see B
161	M	J	Complete flag MRN	an 1	J (MRN complete)
<b>End Customs reference fields</b>					

**A**

A matching of customs reference fields to the shipment description does not take place, since only one MRN may be transferred for all containers that have to be declared. The line number and value for the line of the data record always have to be „001“ for customs declaration ECS Netherlands/Belgium.

**B**

Structure of field 160 (AES customs reference):

Digits 1-3 sequential number of the MRN within SB line for ECS always „001“, as 1 HDS – 1 MRN (always completely) is necessary for the declaration in the Netherlands.

Digits 4-21 MRN

- Year (00-99) (n2)
- Nationality code ‚DE‘ (a2)
- Agency number of ATLAS (n4)
- Sequential number (n8)
- Administrative procedure code ‚E‘ (a1)
- Check digit (n1)

Digits 22-24 Sequential number of the position within the MRN for ECS always „001“

Digits 25-26 Package id = sequential number of package within the position for ECS always „000“

## C

Type of notification	Document Name	Document Nummer
EX	Export declaration – third country	MRN (individual number)
CO	Export declaration – oversea departments /member state in which the value added tax directive does not apply	MRN (individual number)
EU	Export declaration - EFTA	MRN (individual number)
TT1	T1 transit procedure via the Port of Rotterdam	MRN (individual number)
RT1	T1 transit procedure with office of destination Rotterdam	MRN (individual number)
TT2	T2 transit procedure via the Port of Rotterdam	MRN (individual number)
RT2	T2 transit procedure with office of destination Rotterdam	MRN (individual number)
ICT	Intra-community trade: Proof/certificate for ....	CMR, invoice number
IM7	Summary declaration to temporary storage	Individual serial number top right in the document
AAD	Accompanying administrative document	ARC-number from EMCS
RAR	Form 302 with destination Rotterdam	Individual serial number top right in the document
TAR	Form 302	Individual serial number top right in the document
TIR	Carnet TIR – Customs office of departure	Individual serial number of the TIR Carnet
TIR	Carnet TIR – Customs office en route	Individual serial number of the TIR Carnet
REX	Emergency procedure export	Local Reference Number (LRN)
RT5	T5 ending in Rotterdam	Individual number on the T5-document
TT5	T5	I Individual number on the T5-document
ATA	Carnet ATA – Customs office en route	Individual serial number of the ATA Carnet
TNK	Explanation about tank container with residue	Own reference number

### 3.2.4 Formatting and notes

#### 3.2.4.1 Shipment description fields A27 – E27

##### *General notes*

The shipment description line comprises as a rule the fields A27 (label and number), B27 (number), C27 (packing code), D27 (description of goods), and E27 (weight).

##### *Comment about field A27 (label & number)*

The field length for field A27 is currently **20 digits**. Due to the planned harmonisation with the bill of lading it is intended that the field will be shortened to 19 digits. The date for this has not yet been determined, it does though appear advisable to use only 19 digits now and to transmit the 20th digit as a blank/space (hex. 40).

##### *Comment about field C27 (package code)*

The packing code (see the DAKOSY key list) and the associated full texts are managed by DAKOSY. The use of own codes is not permitted.

The indication of the container package code is currently requested for declarations at the Dutch/Belgium customs.

**Comment about field E27 (weight)**

Weight: 14752,000 kg → value in field E27: 0014752000

Decimal points not permitted.

The indication of the container package code is currently requested for declarations at the Dutch/Belgium customs.

**3.2.4.2 Field 028 and 166**

The field container data must always be transmitted in applications for ECS Netherlands. In addition to the container number one booking number with the same line number must be transmitted.

The use of a container package code (2<sup>nd</sup> digit numeric) and the container number are required fields, the number in field B27 has to be 1.

**For checking the container numbers see appendix under 4.1**

Field 028 (container data) is 32 digits long and is formatted as follows:

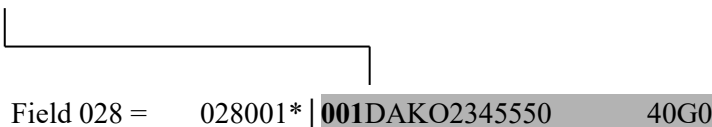
<u>Digits</u>	<u>Length</u>	<u>content</u>	<u>Entry</u>
1 - 3	3	Position in quay order	Must
4 - 15	12	Container number	Must
16 - 16	1	Shippers owned code	J or blank
17 - 17	1	Filler	-
18 - 28	11	Seal number	Optional
29 - 32	4	Container type (ISO 6346)	Optional

*Container data – Mapping to the goods item line*

With the specification of the line number for the associated goods item line the necessary mapping is done in the first three digits of the field 028 container data. The following two (simplified) examples illustrate the mapping:

*Example 1:* 1 container in a shipment description line

<u>Label&amp;number</u>	<u>Quantity</u>	<u>Package</u>	<u>Content</u>	<u>Weight</u>
SB line 001 = DAKO2345550	1	C4	CHEMICALS	16000,0



The container numbers should be specified in ascending order as far as possible. The line number must correspond with the indicated mapping to the shipment description line (field 028 pos 1-3). A corresponding field 166 (with the booking number associated to the container number) must always be transmitted in addition to the container number.

## 4 Appendix

### A Checking the container numbers

#### 1. ISO container

##### 1.1 Description

An ISO container is recognised by the alpha prefix. All valid ISO alpha prefixes are recorded in a container BIC code file. In addition the container numbers with the alpha prefixes SUDU, HLCU, HANU and MMCU are also considered as ISO containers, although with these the check digit calculation deviates from the ISO standard.

##### 1.2 Container BIC Codes

The container BIC codes can be found on the DAKOSY homepage in the internet as an Adobe Reader file.

- Address: <http://www.dakosy.de/>
- click **EDI-Services**
- click **key lists**
- click **BIC code container prefixes**

#### 2. Containers transmitted

##### 2.1 Container without shipper-owned code

You have to run through the check (as described above under ISO containers) without any errors. Otherwise there will be a rejection with an error code.

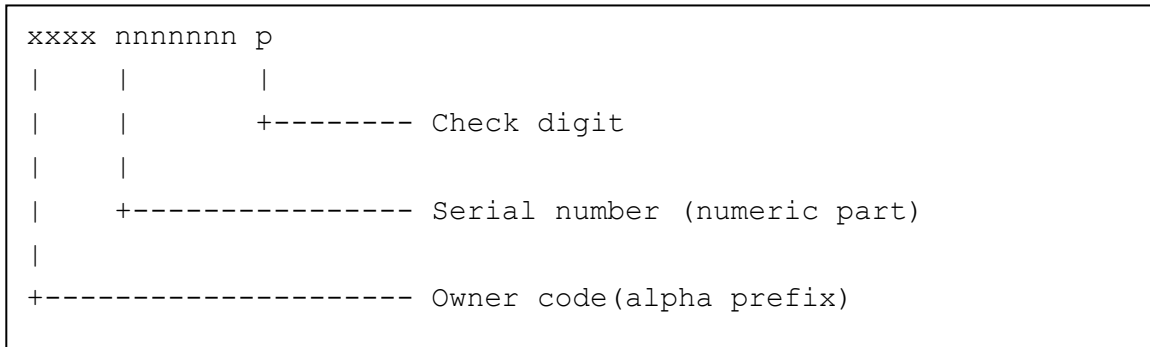
##### 2.2 Shipper-owned container

If a container coded as shipper-owned has an alpha prefix which is included in the container BIC code file or is SUDU, HLCU, HANU, MMCU, a check takes place as described above under ISO containers. 10-digit containers with the prefixes OWHU and APLU (even if they are in the BIC code file) are let through without a check as shipper-owned containers. All other containers under shipper-owned go through without a check.

Exception: Container numbers with an ISO prefix where the calculated check digit no longer corresponds to the actual check digit of the container, e.g. due to re-labelling. These can be notified to DAKOSY. The notification of the container numbers can be by fax to [WWW.DAKOSY-DIRECT.DE](http://WWW.DAKOSY-DIRECT.DE), in which it is confirmed that the container is actually labelled with this number.

### 3. Check algorithms

#### 3.1 Structure of the container number



#### 3.2 Check digit in accordance with ISO

All characters (except for check digits) in the container number are allocated to a value in accordance with the following table.

<i>Owner code</i>		<i>Serial number</i>		
<b>Character</b>	Value	<b>Character</b>	Value	Value = Character
<b>A</b>	10	<b>N</b>	25	0
<b>B</b>	12	<b>O</b>	26	1
<b>C</b>	13	<b>P</b>	27	2
<b>D</b>	14	<b>Q</b>	28	3
<b>E</b>	15	<b>R</b>	29	4
<b>F</b>	16	<b>S</b>	30	5
<b>G</b>	17	<b>T</b>	31	6
<b>H</b>	18	<b>U</b>	32	7
<b>I</b>	19	<b>V</b>	34	8
<b>J</b>	20	<b>W</b>	35	9
<b>K</b>	21	<b>X</b>	36	
<b>L</b>	23	<b>Y</b>	37	
<b>M</b>	24	<b>Z</b>	38	

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The value of each character of the container number is now multiplied by the position of the character in the container number minus 1 to the power of 2.

All of the results are added, and the total is then divided by 11. The remainder from the division provides the check digit, whereby a remainder of 10 provides the check digit 0.

Example: Container number: GSTU4607003

Digit	Owner code				Serial number						S U M
	1	2	3	4	5	6	7	8	9	10	
1. Container number	G	S	T	U	4	6	0	7	0	0	
2. Character values	17	30	31	32	4	6	0	7	0	0	
3. Powers of two	1	2	4	8	16	32	64	128	256	512	
Result (2. * 3.)	17	60	124	256	64	192	0	896	0	0	1609

$$1609 / 11 = 146,27 \quad \text{or} \quad 146 + \text{Remainder } 3 \text{ <====> check digit}$$

### 3.3 Check deviating from ISO

These containers are recognised by the prefix (owner code) and the check digit calculation is modified.

#### 3.3.1 SUDU containers

For containers with the prefix SUDU and a serial number of 214500 to 214699 first the check digit in accordance with ISO is calculated and this is then subtracted by 1. For containers outside of the serial number range the check digit calculation in accordance with ISO applies.

#### 3.3.2 HLCU containers

For containers with the prefix HLCU the values for the characters H, L, C and U in the Values Table (see 3.2) are changed to:

H	=	4
L	=	0
C	=	2
U	=	9

The continued calculation of the check digit is equivalent to the ISO standard.

### 3.3.3 HANU containers

For containers with the prefix HANU the values for the characters H, A, N and U in the Values Table (see 3.2) are changed to:

H	=	4
A	=	2
N	=	9
U	=	0

The continued calculation of the check digit is equivalent to the ISO standard.

### 3.3.4 MMCU containers

Container numbers with the prefix MMCU and a serial number from 200000 to 200500 are checked to start with in accordance with the ISO standard. If the check fails, the values of the characters M, C and U in the Values Table (see 3.2) change as follows:

M	=	13
C	=	3
U	=	21

This circumstance is the result of the fact that the MMCU container in this serial number was changing over from the special SUDO check digit notification to the ISO check digit notification.

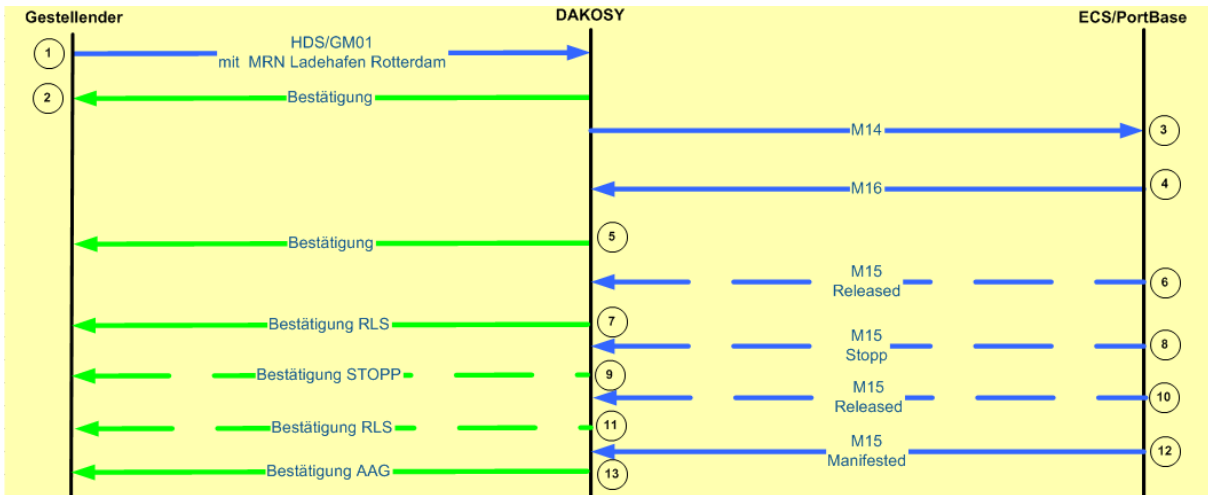
All other MMCU container check digits with a serial number outside of the range stated above are only calculated in accordance with ISO.

## 5 Process description for the communication with ECS Netherlands/Belgium

### General information:

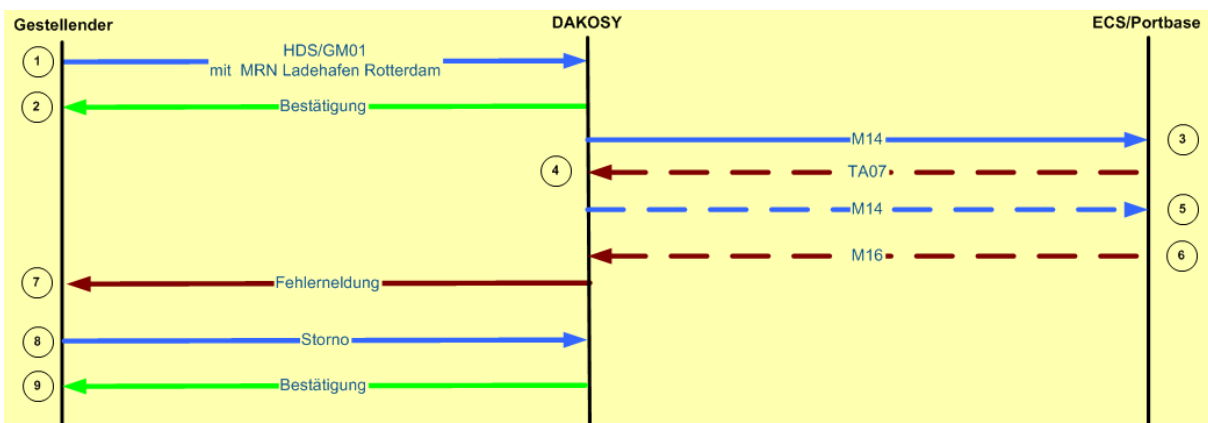
- After an error in HDS structure or missing mandatory data the reference confirmation record with error code will be submitted; the data must be transmitted as original again.
- An error as a result of especially validation in conjunction with the communication with ECS Netherlands/Belgium will be submitted with message type APERAK, the erroneous message has to be cancelled.
- Loading stops and releases are transmitted –as in the ZAPP-AES process –with the format GM01.
- All confirmations refer to a shipper's reference.
- The shipper's reference may not be used again after a data cancellation.

5.1 Process flow error-free data sequences at DAKOSY and ECS Netherlands/Belgium



- 1 Data entry HDS.
- 2 Reference confirmation record.
- 3 Data transfer to the Dutch/Belgium ECS system.
- 4 Confirmation of data entry by the Dutch/Belgium ECS system.
- 5 Transfer of the confirmation to the presenter.
- 6 After 5 minutes –if no means of control is ordered – Released message reported by the Dutch/Belgium ECS system.
- 7 Transfer of Released message to the presenter.
- 8 Means of control can be ordered after the released as well as instead of the first released.
- 9 The order of means of control will be transferred to the presenter.
- 10 Release for exportation by the Dutch/Belgium ECS system.
- 11 The release is being transferred to the presenter.
- 12 Confirmation of exit by the Dutch/Belgium ECS system.
- 13 The confirmation of exit is being transferred to the presenter.

5.2 Process flow after ECS Netherland/Belgium error message



- 1 Data entry HDS
- 2 Reference confirmation record
- 3 Transfer of data to the Dutch/Belgium ECS system
- 4 Technical error message by the Dutch/Belgium customs system
- 5 Correction and new data transmission from DAKOSY
- 6 Professional error message from the Dutch/Belgium ECS system

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- 7 Transfer of error message to the presenter
- 8 Cancellation of HDS at DAKOSY
- 9 Confirmation of cancellation