



GUIDELINES

CODECO for barges Container Gate In / Gate Out Move Report

(D.95B version 1.4)

PSA Antwerp Guidelines CODECO for barges

Introduction

This document is composed merely to facilitate the development of new EDI CODECO links with our customers and to guide and assist them through the programming and test phase. This should reduce the research and development on the customer side significantly.

As PSA Antwerp is an active participant of the world wide SMDG EDI discussion forum since its foundation, this document is partially based on the SMDG CODECO user manual (Version 1.4), enriched with some useful tips. It is not our intention to replace the official SMDG manual. These guidelines should be used in addition to the CODECO manual.

Suggestions and/or feedback are always welcome, as this document is also based on experiences, gained from past CODECO projects. Each time some new features are added, we provide our customers with an update.

Best regards,

PSA Antwerp EDI Support team.

The Container Gate In / Gate Out / Logistic Move Report (Codeco)

The CODECO message is sent by the container terminal operator to the shipping agent. The CODECO message is intended for the reporting of gate activity (gate movements) associated with an item of equipment in and out of a container terminal, storage and repair facility, or packing / unpacking facility.

It can also be used to report movements within the facility, including changes to the status of the item of equipment after servicing or repair.

SEGMENT TABLE

UNB	_____	}	Header
UNH	_____		
BGM	_____		
NAD	_____	}	Body
GID			
FTX			
DGS			
EQD	(details container 1)		
RFF			
DTM			
LOC			
MEA			
DIM			
TMP			
SEL			
FTX			
DAM			
TDT			
EQD	(details container 2)		
RFF			
DTM			
LOC			
MEA			
DIM			
TMP			
SEL			
FTX			
DAM			
TDT			
...	(next container detail)		
CNT	_____	}	Trailer
UNT	_____		
UNZ	_____		

SEGMENT TABLE: table of contents

Tag Name

Header

UNH Message header
BGM Beginning of message
FTX Free text
RFF Reference

Segment group 1

TDT Details of transport
RFF Reference
LOC Place/location identification
DTM Date/time/period

Segment group 2

NAD Name and address

Segment group 3

GID Goods item details
TMP Temperature

Segment group 4

DGS Dangerous goods
FTX Free text

Segment group 5

EQD Equipment details
RFF Reference
LOC Place/location identification
MEA Measurements
DIM Dimensions
TMP Temperature
SEL Seal number
FTX Free text

Segment group 6

DAM Damage

Trailer

CNT Control total
UNT Message trailer

SEGMENT INFORMATION

Interchange header – UNB-Segment

Structure:

UNB
+
0001 = *Syntax identifier* with as value always “UNOA” indicating the use of level ‘A’ character set.
=> see APPENDIX A for more information
:
0002 = *Syntax version* with as value always “2”
+
0004 = *Sender identification code* = name code of the message sender
+
0010 = *Recipient identification code* = name code of the message recipient
+
0017 = *Date* = preparation date of the message
:
0019 = *Time* = preparation time of the message
+
0020 = *Interchange control reference* = unique reference also transmitted in the UNZ segment
,

Example:

UNB+UNOA:2+101307+<RECEIVER>+000818:1009+030410'

Message header – UNH-Segment

For mapping reasons, we also enter the Association Assigned Code (0057) in the UNH-segment.

Structure:

UNH
+
0062 = *Message reference number* = unique reference also transmitted in the UNT segment
+
0065 = *Message type identifier* with as value "CODECO"
:
0052 = *Message type version number* with as value "D"
:
0054 = *Message type release number* with as value "95B"
:
0051 = *Controlling agency* with as value "UN"
:
0057 = *Association assigned code* with as value the used manual version number (= "ITG14")
+
0068 = *Additional unique senders-message reference*
,

Example:

UNH+030697+CODECO:D:95B:UN:ITG14+SEB0078930'

2. SEGMENT GROUP 2

A group of segments to identify a party and/or addresses and related contacts. This segment group is mandatory. It identifies parties associated with all the equipment movements reported in the message.

2.1. Name and Address – Group2 – NAD-Segment

To specify the name / address and their related function.

Structure:

NAD
+
3035 = *Party qualifier* with as value “CF” (= container operator), “AG” (= agent).
+
3039 = *Party id identification* with as value the name of the line agency
:
1131 = *Code list qualifier* with as value the code “160” (= party identifier)
:
3055 = *Code list responsible agency* with as value the code “20” (= BIC code)
,

Examples:

NAD+CF+YML'
NAD+AG+MTH:160:20'

3. SEGMENT GROUP 5

3.1. Equipment details – Group 5 – EQD-Segment

Structure:

EQD

+

8053 = *Equipment qualifier* with as value “CN” (= container)

+

8260 = *Equipment identification number* with as value the container number

+

8155 = *Equipment size and type identification* with as value the ISO code for the corresponding container

:

1131 = *Code list qualifier* with as value “102” (= size and type)

:

3055 = *Code list responsible agency, coded* with as value “5” (= ISO)

++

8249 = *Equipment status, coded* with as value “2” (= export) or “3” (= import) or “1” (= continental)

+

8169 = *Full/empty indicator, coded* with as value “4” (= empty) or “5” (= full)

,

Example

EQD+CN+TRLU1234567+4210:102:5++2+5'	(export - full)
EQD+CN+OOLU1234567+45R1:102:5++3+5'	(import- full)
EQD+CN+TRLU1234567+4210:102:5++1+4'	(continental - empty)

3.2. References – Group 5 – RFF-Segment (gate in move)

To specify the identifying number associated with the container, such as booking reference number

Structure:

RFF

+

1153 = *Reference qualifier* with as value the code "BN" (= Booking Reference Number)

:

1154 = *Reference number*

'

Examples:

RFF+BN:ANR07025Z'

3.3. Date / Time / Period – Group 5 – DTM-Segment

Structure:

DTM

+

2005 = *Date/time/period qualifier* with as value the code “7” (= effective date / time)

:

2380 = *Date/time/period*

:

2379 = *Date/time/period format qualifier* with as value the code “203”

,

Example:

DTM+7:200006240600:203' → date and time the container entered the gate in (move in),
left the gate out (move out) or was subject of a logistic move.

3.4. Location – Group 5 – LOC-segment

This segment is used to specify port / locations associated with the transport of the container, such as:

- Activity Location
- Port of discharge after shipment

The Related Location One Identification (3223) can have one of the following values:

- “K869” for quay 869 (Europaterminal)
- “K420” for quay 420 (Churchilldok)
- “K913” for quay 913 (Noordzeeterminal)
- “K1742” for Deurganckdok quay 1742 (Deurganckdok)

LOC+11: Port of discharge (Copino discharge):

In this LOC+11 segment the port of discharge is given. This is the destination after shipment.

Structure:

LOC
+
3227 = *Place/location qualifier* with as value “11” (=operational port of discharge)
+
3225 = *Place/location identification* with as value the UN Locode of the port of discharge
:
1131 = *Code list qualifier* with as value “139” (=port)
:
3055 = *Code list responsible agency, coded* with as value “6” (= UN)
,

Example:

LOC+11+SGSIN:139:6'

LOC+164: Final port of destination (Copino discharge):

In this LOC+164 segment the final port of destination is given.

Structure:

LOC
+
3227 = *Place/location qualifier* with as value "164" (=operational port of discharge)
+
3225 = *Place/location identification* with as value the UN Locode of the port of discharge
:
1131 = *Code list qualifier* with as value "139" (=port)
:
3055 = *Code list responsible agency, coded* with as value "6" (= UN)
,

Example:

LOC+164+SGSIN:139:6'

LOC+7: port of destination of the barge (Copino loading)

In this LOC+7 segment the destination of the barge (after loading) is given.

LOC
+
3227 = *Place/location qualifier* with as value "7" (= port of destination)
+
3225 = *Place/location identification* with as value the UN Locode of the port of destination
:
1131 = *Code list qualifier* with as value "139" (=port)
:
3055 = *Code list responsible agency, coded* with as value "6" (= UN)
,

Example:

LOC+7+FR0TM:139:6'

LOC+165: Activity Location:

Structure:

LOC

+

3227 = *Place/location qualifier* with as value "165" (= activity location)

+

3225 = *Place/location identification* with as value the UN-Locode of port of departure/discharge

:

1131 = *Code list qualifier* with as value the code "139" (=port)

:

3055 = *Code list responsible agency, coded* with as value the code "6" (= UN)

+

3223 = *Related place/location one identification* with as value the terminal/berth of departure/discharge (for codes: see above)

:

1131 = *Code list qualifier* with as value "TER" (= terminals)

:

3055 = *Code list responsible agency, coded* with as value the code "ZZZ" (=mutually agreed)

,

Example:

LOC+165+BEANR:139:6+K869:TER:ZZZ'

3.5. Container Gross Weight – Group 5 – MEA-Segment

In this segment, the gross weight of the corresponding container is specified

Structure:

MEA

+

6311 = *Measurement Application Qualifier* with as value “AAE” (=measurement)

+

6313 = *Measurement dimensions*, coded with as value “G” (= gross weight),
“T” (= tare weight), “MW” (= maximum weight – to be used for CSC maximum
gross weight container).

+

6411 = *Measure unit qualifier* with as value “KGM” (=kilogram)

:

6414 = *Measurement value* with as value the actual gross weight

,

Example:

MEA+AAE+G+KGM:25400'

MEA+AAE+T+KGM:5400'

MEA+AAE+MW+KGM:40000'

These details belong to a container with:	gross weight	= 25400 Kgs
	tare weight	= 5400 Kgs

3.6. Dimensions – Group 5 – DIM-Segment

To specify dimensions who exceed those of the standard reported in the preceding EQD-segment.

Structure:

DIM

+

6145 = *Dimension qualifier* with as value “9” or “8” or “7” or “6” or “5” (see below)

+

6411 = *Measure unit qualifier* with as value “CMT” (= Centimetres)

:

6168 = *Length dimension*

:

6140 = *Width dimension*

:

6008 = *Height dimension*

,

Example:

DIM+9+CMT:0:0:60' → Height exceeds the standard dimensions with 60 centimetres

DIM+5 = Off-standard dimension front

DIM+6 = Off-standard dimension back

DIM+7 = Off-standard dimension right

DIM+8 = Off-standard dimension left

DIM+9 = Off-standard dimension general

3.7. Temperature – Group 5 – TMP-Segment

To specify the temperature setting

Structure:

TMP

+

6245 = *Temperature Qualifier* with as value “2” (= Transport temperature)

+

6246 = *Temperature setting*

:

6411 = *Measure unit qualifier* with as value “CEL” (= Celsius)

,

Example:

TMP+2+003:CEL' → Temperature is set at 3 degrees Celsius

3.8. Seal number – Group 5 – SEL-Segment

Maximum 9 seal numbers are reported in the SEL-group with a SEL segment

Structure:

SEL

+

9308 = *Seal number*

+

9303 = *Seal issuer* with as value the code “CA” (= carriers’ seal), “SH” (= shippers’ seal), “CU” (= customs’ seal), “TO” (= terminal operators’ seal).

,

Example:

SEL+37613+CA' → number of carriers’ seal
SEL+49156+SH' → number of shippers’ seal
SEL+172052+TO' → number of terminal operators’ seal
SEL+81904+X → seal on the left door
SEL+123456+CU → custom’s seal
SEL+NS+NS' → no seal on the container
SEL+NLSB+SH → the seal is not readable

Special procedure containers arriving at the terminal without seal:

If a container is discharged from barge, rail or vessel at the HNN-terminal without a seal, HNN will attach a seal.

This is reported to you with:

SEL+seal number+TO'

In case a container arrives by truck at the HNN-terminal without a seal, the truck driver will have to buy an Antwerp security boltseal and attach this to the container himself.

This attached Antwerp security boltseal is reported to you with:

SEL+ boltseal number+SH'

3.9. Instructions for special services or actions – Group 5 – FTX-Segment

CSC information

This segment is also used to specify the CSC information. As Text Subject Qualifier (4451) "CSC" will be specified. As Free Text Coded (4441) next values occur:

Structure:

FTX

+

4451 = *Text subject qualifier* with as value "CSC" (= container weight)

+++

4440 = *Free text, coded* with as value: "ACEP" (= container weight accepted)

"NDAT" (= no data available)

"NSLB" (= CSC plate not readable)

"NCSC" (= no CSC plate attached on the container)

"0702" (= the weight on the CSC plate is valid until july 2002).

,

Example

FTX+CSC+++ACEP'

FTX+CSC+++NDAT'

FTX+CSC+++NSLB'

FTX+CSC+++NCSC'

FTX+CSC+++0702'

General information

Specifying general information will be done in the FTX segment with as Text Subject Qualifier (4451) "AAI" (=general information).

Structure:

FTX

+

4451 = *Text subject qualifier* with as value "AAI" (= general information)

+++

4440 = *Free text* with as value a description/instruction/remark

,

Example:

FTX+AAI+++POC EX VESSEL (RLN)'

FTX+AAI+++AFL AK?: NAAR CEA ' → putting the container from one line service to another, or from one customer to another.

FTX+AAI+++ANL AK?: VAN ZAL ' → putting the container from one line service to another, or from one customer to another.

DAR information

This segment is used to specify the DAR (Damage Remarks / status) information.

OK status = Container in good condition.

BD status = Container in bad condition (out of service),(value 10 in element 4441).

The DAR segment is related to the damage details (DAM), in group 6.

Structure:

FTX

+

4451 = *Text subject qualifier* with as value "DAR" (= Damage Remarks)

++

4441 = *Free text*, coded (OK or 10)

:

1131 = *Code list qualifier* with as value ZZZ(= Mutually agreed) or 130 (= special handling)

:

3055 = *Code list responsible agency*, coded with as value "184" (= ACOS)

,

Example:

FTX+DAR++OK:ZZZ:184'

4. SEGMENT GROUP 6

4.1. Damage Details – Group 6 – DAM-Segment

This group is related to the damage remarks (qualifier "DAR") in Group 5 FTX-Segment. In the DAM segment the damage of the corresponding container is specified. (list of specifications, types of damages in appendix C)

A maximum of 9 damage codes can be specified in the DAM-segment.

Structure:

DAM
+
7493 = *Details qualifier* with as value "1" (= equipment damage)
+
7501 = *Type of damage*
:
:
:
7500 = *Type of damage* (free text)
,

Example:

DAM+1+94:::DENTED AT DIFFERENT PLACES'
DAM+1+99:::OUT OF SERVICE'

5. SEGMENT GROUP 7

5.1. Vessel details – Group7 – TDT-Segment

This segment specifies the transport details such as mode of transport, reference numbers, ...

Structure:

TDT

+

8051 = *Transport stage qualifier* with as value "1" (= inland carriage)

+

8028 = *Conveyance reference number* with as value the BTS ID number

+

8067 = *Mode of transport, coded* with as value "8" (= inland water)

+

8179 = *Detailed mode of transport, coded* with as value "11"

+

3127 = *Carrier identification* with as value the carrier code of the barge

:

:

:

3128 = *Carrier name* with as value the carrier name (= free text)

+

+

+

8213 = *Id. of means of transport identification* with as value the barge ID/Number
(=europenumber)

,

Example:

TDT+1+165965+8+11+CTG:::LICHTERMAATSCHAPPIJ CTG+++6003577'

Control total CNT-Segment

Structure:

CNT

+

6069 = *Control qualifier* with as value "16" (= total number of equipment)

:

6066 = *Control value*: total number of containers counted

,

Example:

CNT+16:2' → = message with 2 containers.

Message trailer UNT-Segment

Structure:

UNT

+

0074 = *Number of segments in a message*: including UNH and UNT segments, but excluding UNB and UNZ segment.

+

0062 = *Message reference number*: this reference must be identical to the reference in UNH 0062

,

Example:

UNT+1533+020561' → = message with 1533 segments.

Interchange trailer UNZ-Segment

Structure:

UNZ

+

0036 = *Interchange control count*: the number of messages in the interchange

+

0020 = *Interchange control reference*: this reference must be identical to the reference in UNB0020

,

Example:

UNZ+1+015145' → = 1 interchange envelope containing 1 CODECO message.

APPENDIX A: Level A character set in detail (see also “Interchange header – UNB – segment”):

Letters, upper case	A to Z
Numerals	0 to 9
Space character	
Full stop	.
Comma	,
Hyphen / minus sign	-
Opening parentheses	(
Closing parentheses)
Oblique stroke (slash)	/
Equals sign	=

Reserved for use as:

Apostrophe	' segment terminator
Plus sign	+ segment tag and data element separator
Colon	: component data element separator
Question mark	? release character

? immediately preceding one of the characters ' + : ? restores their normal meaning. E.g. 10?+10=20 means 10+10=20. Question mark is represented by ??.

The following characters are part of the level A character set but **cannot** be used internationally in telex transmissions:

Exclamation mark	!
Quotation mark	"
Percentage sign	%
Ampersand	&
Asterisk	*
Semi-colon	;
Less-than sign	<
Greater-than sign	>
Degree sign	°
Cross sign	#

Appendix B: Examples

GATE IN MOVE:

UNB+UNOA:2+101307+WCTCOD+100312:1118+595116'
UNH+595125+CODECO:D:95B:UN:ITG14+DGG6557517'
BGM+34+DGG65575170001+9'
NAD+CF+COS'
NAD+AG+COSCO::20'
EQD+CN+TCNU9310759+45G1:102:5++2+5'
RFF+BN:4502447830'
DTM+7:201003121059:203'
LOC+11+CNXMN:139:6'
LOC+164+CNXMN:139:6'
LOC+165+BEANR:139:6+K1742:TER:ZZZ'
MEA+AAE+G+KGM:24500'
MEA+AAE+T+KGM:3840'
MEA+AAE+MW+KGM:30000'
SEL+003305+SH'
FTX+AAI+++SPOD=CNXMN/POD=CNXMN INDIEN GEEN SS, EEN (RLN):H SS HANGEN ?+
SC 95 (RLN)'
FTX+CSC+++ACEP'
FTX+DAR++OK:ZZZ:184'
DAM+1+23:::DOORS DAMAGED'
DAM+1+94:::GEDEUKT OP VERSCHEIDENE PLAATSEN'
TDT+1+12E+8+11+WCT:::WCT MEERHOUT+++6003577:103'
CNT+16:1'
UNT+22+595125'
UNZ+1+595116'

GATE OUT MOVE:

UNB+UNOA:2+101307+HSCL+100311:1618+594498'
UNH+594507+CODECO:D:95B:UN:ITG14+DGG6553595'
BGM+36+DGG65535950002+9'
NAD+CF+HJS'
NAD+AG+HJSB::20'
EQD+CN+SENU5005003+45G1:102:5++3+5'
DTM+7:201003111613:203'
LOC+7+FROTM:139:6'
LOC+165+BEANR:139:6+K1742:TER:ZZZ'
MEA+AAE+G+KGM:6000'
MEA+AAE+T+KGM:3990'
MEA+AAE+MW+KGM:32000'
SEL+CH5543305+CA'
FTX+CSC+++ACEP'
FTX+DAR++OK:ZZZ:184'
DAM+1+23:::DOORS DAMAGED'
DAM+1+94:::GEDEUKT OP VERSCHEIDENE PLAATSEN'
TDT+1+165965+8+11+HAEG:::HAEGER & SCHMIDT+++2330687:103'
CNT+16:1'
UNT+19+594507'
UNZ+1+594498'

APPENDIX C: Type of damages

	Damage Code	Dutch Description	English Description
Front	00	Toprail Beschadigd	Toprail Damaged
	01	Bodemrail Beschadigd	Bottomrail Damaged
	02	Gat/Scheur	Hole/Tear
Left	03	Volume Afwijking	Volume Variation
	10	Toprail Beschadigd	Toprail Damaged
	11	Bodemrail Beschadigd	Bottomrail Damaged
	12	Gat/Scheur	Hole/Tear
Back	13	Volume Afwijking	Volume Variation
	14	Hoekstijl Beschadigd	Cornerpost Damaged
	20	Toprail Beschadigd	Toprail Damaged
	21	Bodemrail Beschadigd	Bottomrail Damaged
	22	Gat/Scheur	Hole/Tear
	23	Deuren Beschadigd	Doors Damaged
Right	24	Deuren Niet Volledig Gesloten	Doors not completely Closed
	30	Toprail Beschadigd	Toprail Damaged
	31	Bodemrail Beschadigd	Bottomrail Damaged
	32	Gat/Scheur	Hole/Tear
	33	Volume Afwijking	Volume Variation
	34	Hoekstijl Beschadigd	Cornerpost Damaged
	Bottom	40	Vloer Beschadigd
41		Vorkopeningen Beschadigd	Forkholes Damaged
Top/Roof	50	Dekzeil Beschadigd	Tarpaulin Damaged
	51	Dekzeil Ontbreekt	Tarpaulin Missing
	52	Gat/Scheur	Hole/Tear
	53	Dekzeil Niet Bevestigd	Tarpaulin Not Secured
	54	Volume afwijking	Volume Variation
	55	Zegellijn Beschadigd	Seal Line Damaged
	56	Zegellijn Ontbreekt	Seal Line Missing
Inside	60	Vuil/Stinkt	Dirty/Smells
	61	Bodem Nat	Bottom Wet
	62	Dakstijlen Ontbreken/Beschadigd	Roofpost Missing/Damaged
	63	Zijpanelen Ontbreken/Beschadigd	Sidepanels Missing/Damaged
Tank/Bulk	70	Buitenbekleding Beschadigd	Outsidepanel Damaged
	71	Tankframe Beschadigd	Tankframe Damaged
Cool Container	80	Reeferkabel Ontbreekt	Reefercable Missing
	81	Reeferkabel Beschadigd	Reefercable Damaged
	82	Conair Gat Open	Conair Holes Open
	83	Conair Gat Beschadigd	Conair Holes Damaged
General	90	Labels Ontbreken	Labels Missing
	91	Oude Labels Niet Verwijderd	Old Labels Not Removed
	92	Niet Verzegeld Bij Aankomst	Not Sealed At Arrival
	93	Container Lekt	Container Leaks
	94	Gedeukt Op Verschillende Plaatsen	Dented On Different Places
	95	Geen rederijzegel; Liner seal bij aankomst	No Liner seal upon terminal arrival
	99	Buiten Dienst	Out Of Service