

EDI Implementation Guide

UN/EDIFACT Message

CODECO D95B

Container Gate-In/Gate-Out Report Message

(DRAFT VERSION)

DOCUMENT INFORMATION

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CHANGE HISTORY

Date	Description	Version	Action	Remarks
09/12/2013	Initial Draft	1.0	Leslie Yee	
22/1/2015	Revised	2.0	Megha Poddar	
01/06/2016	Revised	3.0.001	Sherry Teo	Drafted for LMS project.
16/12/2016	Revised	3.0.002	Sherry Teo	With minor adjustment: making VVD and call sign optional.

1. INTRODUCTION

This implementation guide has been developed by **Pacific International Lines (Pte) Ltd.** to assist interested EDI partners in developing and implementing the UN/EDIFACT CODECO messages with Pacific International Lines (Pte) Ltd.

This EDI Message is intended to be used for the reporting of gate activity (gate movements). A terminal, depot etc. confirms that the containers specified have been delivered or picked up by the inland carriers (road, rail or barge)

This user manual is based on UN/EDIFACT [D.95B](#) CODECO (Container gate-in/gate-out report) message. In order to promote the use of the exchange of CODECO, we strived to keep information elements at its minimum by removing/modifying some of the segments and elements.

2. DOCUMENT MAINTENANCE

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3. GENERAL GUIDELINES

1) Data Selection Criteria

The following criteria will be used to determine the container events that should be send to PIL:

- If PIL is the container operator, then we will be able to receive all the events of the container.
- If PIL is the inward/outward slot operator, then we will be able to receive all terminal events (gate-in, gate-out, discharge & load) without destination
- If PIL is the vessel operator of the discharger and/or loader, then we will be able to receive discharge and load events for that discharger and/or loader without destination.
- SOC events should be excluded from the container events sending to PIL.

2) Communication Channels

PIL can receive Container Events via:

- FTP
- SFTP
- EDI text file via email attachment

3) File Name

PIL would suggest partners convert filename into following standard:

SNDR_RCVR_MsgType_UniqNo.edi

where 'SNDR/RCVR' are the EDI Sender and Receiver, 'MsgType' is the EDI message type, 'UniqNo' is the date time stamp YYYYMMDDHHMMSS, and '.edi' is a literal filename extension.

However, the file name should not bear any information that is with the intent for information exchange and processing. All information exchange should be strictly via the elements contains in within the EDI message.

4) Date/Time Format

For all date/time related elements, we would apply format as

YYYYMMDDHHMMSS

All date time should be reported in local time.

5) File exchange schedule jobs

PIL would request business partners generate a Container Events file and send to a designated email or FTP folder MINIMUM ONCE A DAY.

PIL will send back a functional acknowledgement verifying receipt of the message. This message highlights network problems before they become crises and helps in the monitoring of data flow. It is **not** an acknowledgement that the message was successfully processed in the receiver's application.

4. CONTAINER EVENTS CODECO SPECIFICATION

1) Usage Indicators

Throughout this document reference is made to indicators (M, C or O) which are shown adjacent to data items and which dictate for the particular message or set thereof the agreed usage of the data items or entities.

The Status Indicators are:

Value	Description
M	Mandatory This entity must appear in all messages. Shown as Usage Indicator "M" in Implementation Guidelines.
C	Conditional This entity is used by agreement between the parties to the transaction.
O	Optional This entity is used when the data is not required by PIL.

2) CODECO Message Structure

Segment Name	M/C	Min Use	Max Use	Description
CODECO*	M	1	1	CONTAINER GATE-IN/GATE-OUT REPORT
Segment UNB*	M	1	1	UN EDIFACT service envelope; Yard location identifier; PIL EDI identifier
Segment UNG*	M	1	1	UN EDIFACT service envelope
Segment BGM*	M	1	1	CODECO document reference number; Event code.
Group 0100_TDT*	M	1	1	VVD (leave blanks if not available-optional); carrier alpha code; call sign (leave blanks if not available-optional); vessel full name
Segment TDT*	M	1	1	
Group 0200_NAD*	M	1	1	
Segment NAD*	M	1	1	Container operator - to filter SOC
Group 0400_EQD*	M	1	999	Equipment No.; size; container status; Full/Empty indicator
Segment EQD*	M	1	1	
Segment RFF*	M	1	3	Booking No; B/L No; Empty repo ref. no.
Segment TMD*	O	0	0	Movement type.
Segment DTM*	M	1	1	Container event date time
Segment LOC*	M	1	1	Event yard
Segment MEA*	O	0	1	Gross weight
Segment DIM*	O	0	1	OOG/UC dimensions
Segment TMP*	O	0	1	Temperature settings & UOM
Segment SEL*	O	0	1	Seal number
Segment DGS*	O	0	1	DG code; UNDG number
Group 0410_DAM*	O	0	1	
Segment DAM*	O	1	1	Container damage flag
Group 0420_TDT*	O	0	1	Inland transport mode; transport ID; abbreviated haulier name;
Segment TDT*	O	1	1	
Segment CNT*	M	1	1	Container count number in the message.
Segment UNT*	M	1	1	UN EDIFACT service envelope
Segment UNZ*	M	1	1	UN EDIFACT service envelope

** - Segments marked with ** are a must have for PIL (even if marked as 'C' in the UN EDIFACT format)

* - Segments marked with * are conditional for PIL. They must be provided if applicable. Follow the M/C requirements stated against these segments.

All other segments are a part of the standard UN EDIFACT format and may / may not be provided to PIL.

Max Use: This indicates the max number of times a segment can occur. If the segment is a part of a group, then this indicates the max number times the segment can occur within a group. Please

refer to the details of each segment in the pages below to find out which value will be used by PIL in case multiple segments are sent.

Group repeat: A group is a sequence of related segments or groups. The entire group can be mandatory or conditional as stated above. Group repeat indicates the max number of times the entire group can repeat.

Segment: **UNB** Interchange Header
Position: 0000
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To identify an interchange.
Notes: UNB+UNOA:2+SGSIN01+PIL+130818:1009+SGSIN01'

Tag	Description	Status	Format	Remarks
0001	Syntax Identifier	M	A 4	"UNOA"
0002	Syntax Version	M	N 1	"2"
0004	Sender Identification	M	AN 35	PIL to provide Sender ID i.e. LMS yard code
0010	Recipient Identification	M	AN 35	"PIL"
0017	Date of preparation	M	N 6	YYMMDD
0019	Time of preparation	M	N 4	HHMM
0020	Interchange control reference	M	AN 14	Can be any auto generated number as per the Terminal's/Agent's EDI system setup.

Segment: **UNH** Message Header
Position: 0010
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A service segment starting and uniquely identifying a message. The message type code for the Container gate-in/gate-out report message is CODECO.
Notes: UNH+**20110530133012**+CODECO:D:95B:UN:ITG14+SGSINT01'

Tag	Description	Status	Format	Remarks
0062	Message reference number	M	AN 14	Format: YYYYMMDDHHMMSS Must match the value at UNT 0062.
S009	MESSAGE IDENTIFIER	M		
0065	Message Type Identifier	M	AN 6	"CODECO"
0052	Message Type Version Number	M	AN 3	"D"
0054	Message Type release number	M	AN 3	"95B"
0051	Controlling agency	M	AN 2	"UN"
0057	Association Assigned Code	C	AN 6	"ITG14"
0068	Senders ID	M	AN 35	Can be any auto-generated number as per the Terminal's/Agents EDI system setup.

Segment:	BGM Beginning of Message
Position:	0020
Group:	
Level:	0
Usage:	Mandatory
Max Use:	1
Purpose:	A segment to indicate the beginning of a message and to transmit identifying number and the further specification of the message type (in data element 1001: Document/message name, coded), such as gate-in, gate-out report.
Notes:	BGM+34+20160610040027+9'

Tag	Description	Status	Format	Remarks
1001	Document/Message Name	M	AN 3	Document/message identifier expressed in the following codes. 34 = Gate-In 36 = Gate-Out
C106*				
1004	Document/Message number	M	AN 35	Commonly use numeric system reference number
1225	Message Function, Coded	C	AN 3	Code indicating message function. Fixed value: 9 = Original

Segment: **TDT** Details of Transport
Position: 0030
Group: Segment Group 1
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment identifying the voyage of the vessel relevant to the message (main transport).
Notes: TDT+20+0403+1++PILN:172+++9260421:103::KOTA NABIL'

Tag	Description	Status	Format	Remarks
8051	Transport Stage Qualifier	M	AN 3	Fixed value: 20- Main-carriage transport
8028	Conveyance Reference Number	O	AN 17	Vessel Operator's Voyage (same as voyage show on terminal tally report), leave blanks if not available.
C220	MODE OF TRANSPORT	M		
8067	Mode of Transport	M	AN 3	Fixed value: 1 = Maritime
C040	CARRIER	M		
3127	Carrier identifier	M	AN 17	Standard Carrier Alpha Code(SCAC) PILN = PACIFIC INTERNATIONAL LINES
1131	Code list qualifier	C	AN 3	Fixed value: 172=Carrier code
C222	TRANSPORT IDENTIFICATION	M		
8213	ID of Means Of Transport Identification	O	AN 9	Vessel's Call Sign, leave blanks if not available.
1131	Code list qualifier	C	AN 17	Fixed value: "103 "
8212	ID of Means Of Transport	C	AN 35	Vessel name

Segment:

Position: 0130
 Group: Segment Group 2
 Level: 2
 Usage: Mandatory
 Max Use: 1
 Purpose: A segment to specify container operator
 Notes: NAD+CF+PIL:160:87'

NAD Name and Address

Tag	Description	Status	Format	Remarks
3035	Party Qualifier	M	AN 3	Fixed value: CF = Container Operator/lessee
C082	PARTY IDENTIFICATION DETAILS	C		
3039	Party ID identifier	M	AN 35	To be assigned by PIL i.e. PIL
1131	Code list identification code	C	AN 3	"160"
3055	Code list responsible agency, coded	C	AN 3	"87"

* Note: SOC to be excluded, only CFC is indicated.

Segment:

Position: 0050
Group: Segment Group 5 (Equipment Details)
Level: 1
Usage: Mandatory
Max Use: 999
Purpose: A segment identifying a container, container size/type. The equipment status may be e.g. import, export. Exclude SOC.
Notes: EQD+CN+PCIU1212880+4310:102:5++2+5

EQD Equipment Details

Tag	Description	Status	Format	Remarks
8053	Equipment Qualifier	M	AN 3	Equipment Qualifier - CN = Container
C237	EQUIPMENT IDENTIFICATION	M		
8260	Equipment identifier number	M	AN 17	Equipment Identification: Marks identifying the involved equipment. In this case, it will be the container number.
C224	EQUIPMENT SIZE AND TYPE	M		
8155	Equipment size and type identification	M	AN 10	ISO Size Type (Recommend 1995 ISO list to be used)
1131	Code List Qualifier	C	AN 3	102 = Size and Type
3055	Code List Responsible Agency	C	AN 3	5 = ISO Code
8249	Equipment Status	M	AN 3	Values:- 2 = Export Transport equipment to be exported on a marine vessel. 3 = Import Transport equipment to be imported on a marine vessel. 6 = Transshipment Transport equipment is to be transferred from one marine vessel to another.
8169	Full/Empty Indicator	M	AN 3	Values:- 4 = Empty 5 = Full

Segment:

Position:

Group:

Level:

Usage:

Max Use:

Purpose:

Notes:

RFF Reference

0060

Segment Group 5

2

Mandatory

3

A segment identifying bill of lading number

RFF+**BN:UK1234567** – Gate in/gate out related to a booking

RFF+**BM:US7654321** – Gate in/gate out related to a BL

RFF+**AEW:UM234322** – For empty container movement reference number

Tag	Description	Status	Format	Remarks
C506	REFERENCE	M		
1153	Reference Qualifier	M	AN 3	Fixed values:- BN = Booking Reference BM/CT = B/L Number AEW = MT container movement ref. no.
1154	Reference Number	M	AN 20	For reference qualifier “BN” it will be Booking Reference number. For reference qualifier “BM” it will be Bill of Lading Number. For reference qualifier “AEW”, it will be MT container movement reference number, use with empty container indicator = “4” (Reference Number should be limited to 20 chars only)

TMD Movement Type
 Segment: 0070
 Position: Segment Group 5
 Group: 2
 Level: Optional
 Usage: 1
 Max Use: To specify transport movement details for an equipment.
 Purpose: TMD+**2**'
 Notes:

Tag	Description	Status	Format	Remarks
C219	MOVEMENT TYPE	C		
8335	Movement Type, coded	C	AN 3	2 = LCL/LCL (= PP = CFS/CFS) 3 = FCL/FCL (= HH = CY/CY) 4 = FCL/LCL (= HP = CY/CFS) 5 = LCL/FCL (= PH = CFS/CY)

Segment:

Position: 0080
 Group: Segment Group 5
 Level: 2
 Usage: Mandatory
 Max Use: 1
 Purpose: A segment to identify a date/time actual gate-in/gate-out date/time related to the equipment
 Notes: DTM+7:20110120074512:203'

DTM Reference

Tag	Description	Status	Format	Remarks
C507	DATE/TIME/PERIOD	M		
2005	Date/Time/Period Qualifier	M	AN 3	Fixed value: "7"
2380	Date/Time/Period	M	AN 35	Actual gate-in/gate-out date/time of event for the container. Format: YYYYMMDDHHMMSS
2379	Date/Time/Period Format Qualifier	C	AN 3	Fixed value: "203"

Segment:

Position: 0090
Group: Segment Group 5
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment to identify the location of in-gate/out-gate related to the equipment.
Notes: LOC+165+SGSIN:139:6'

LOC Place/Location Identification

Tag	Description	Status	Format	Remarks
3227	Place/Location Qualifier	M	AN 3	165 = Activity Location
C517	LOCATION IDENTIFICATION	M		
3225	Place/Location Identification	M	AN 25	UN Location Code
1131	Code List Qualifier	C	AN 3	Fixed value: 139 = Port
3055	Code List Responsible Agency	C	AN 3	Fixed value: 6 = UN/ECE (United Nations - Economic Commission for Europe).

Segment: **MEA** Measurements
 Position: 0010
 Group: Segment Group 5
 Level: 2
 Usage: Optional
 Max Use: 1
 Purpose: A segment specifying a physical measurement related to the equipment, such as: - gross weight
 Notes: MEA+AAE+G+KGM:8689'

Tag	Description	Status	Format	Remarks
6311	MEASUREMENT APPLICATION QUALIFIER	M	AN 3	Fixed value: "AAE"
C502	VALUE/RANGE	M		
6313	Measurement Dimension	M	AN 3	Fixed values:- G = Gross Weight
6411	Measurement unit qualifier	M	AN 3	For Measurement Dimension specified as "G", the unit will be fixed value "KGM".
6314	Measurement value	M	N 18	For Measurement Dimension specified as "G", this will be the actual gross weight of the equipment plus its eventual contents in kilograms in format: NNNNNNNN.

Segment:	DIM Dimensions
Position:	0150
Group:	Segment Group 5 (if OOG)
Level:	2
Usage:	Optional
Max Use:	1
Purpose:	A segment specifying physical dimensions related to the equipment, such as: - gross dimensions - off standard dimension general - off standard dimension left - off standard dimension right - off standard dimension back - off standard dimension front
Notes:	DIM+9+CMT:0:0:60'

Tag	Description	Status	Format	Remarks
6145	Dimension Qualifier	M	AN 3	Values: 5 = Off-standard dimension front (Overlength-front) 6 = Off-standard dimension back (Overlength-back) 7 = Off-standard dimension right (Overwidth-right) 8 = Off-standard dimension left (Overwidth-left) 9 = Off-standard dimension general (Overheight)
C211	DIMENSIONS	M		
6411	Measure unit qualifier	M	AN 3	Values: CMT = Centimetres INH = Inches MTR = Metres FOT = Feet
6168	Length dimension	C	N 15	Value is in 999.9 format 999.9 is a number with maximum 3 digits before decimal point, and maximum 1 decimal place.
6140	Width dimension	C	N 15	Value is in 999.9 format 999.9 is a number with maximum 3 digits before decimal point, and maximum 1 decimal place.
6008	Height dimension	C	N 15	Value is in 999.9 format 999.9 is a number with maximum 3 digits before decimal point, and maximum 1 decimal place.

Segment: **TMP** Temperature
Position: 0160
Group: Segment Group 5 (if reefer)
Level: 2
Usage: Optional
Max Use: 1
Purpose: A segment which identifies the transport temperature setting of the container.
Notes: TMP+2+-5:CEL'

Tag	Description	Status	Format	Remarks
6245	TEMPERATURE QUALIFIER	M	AN 3	2 = Transport temperature
C239	TEMPERATURE SETTING	C		
6246	Temperature setting	M	N 3	Tenth degrees have to be separated by a decimal point from full degrees (e.g. 18.5). Temperatures below zero have to be preceded by a minus sign (e.g. "-18.5", "-2.50").
6411	Measurement unit qualifier	M	AN 3	Values: CEL = Celsius FAH = Fahrenheit

Segment: **DGS** DANGEROUS GOODS
Position: 0160
Group: Segment Group 4 (if dangerous cargo)
Level: 2
Usage: Conditional
Max Use: 1
Purpose: To indicate the IMO class and UNDG number of DG containers
Notes: DGS+**IMD**+**2.2**+**1044**'

Tag	Description	Status	Format	Remarks
8273	Dangerous Goods Regulations	M	AN 3	"IMD"
C205	HAZARD CODE	C		
8351	Hazard code identification	M	AN 7	Must be numeric and less than 10. Can have up to one decimal place. Eg. 6.1, 9
C234	UNDG INFORMATION	C		
7124	UNDG Number	O	N 4	UNDG Number

Segment: **SEL** Seal Number
Position: 0100
Group: Segment Group 5 (if seal number present)
Level: 2
Usage: Conditional
Max Use: 1
Purpose: A segment identifying a seal number related to the equipment.
Notes: SEL+**TW1234567**+**CA'**

Tag	Description	Status	Format	Remarks
9308	Seal number	M	AN 18	Seal number
C215	SEAL ISSUER	C		
9303	Sealing party name code	M	AN 3	CA = Carriers' seal CU = Customs' seal

Segment: **DAM** Damage
 Position: 0120
 Group: Segment Group 6
 Level: 2
 Usage: Conditional
 Max Use: 1
 Purpose: A segment to indicate condition of the equipment.
 Notes: DAM+**1**'

Tag	Description	Status	Format	Remarks
7493	Damage Details Qualifier	M	AN 3	Values:- 1 = Equipment Damage indicator

Segment: **TDT** Details of Transport
 Position: 0110
 Group: Segment Group 7
 Level: 2
 Usage: Conditional
 Max Use: 9
 Purpose: A segment identifying the hauler that carries the equipment(container)
 Notes: TDT+1+TRIP123+3+++DHL+++AGR376'

Tag	Description	Status	Format	Remarks
8051	Transport Stage Qualifier	M	AN 3	Fixed value: 1- Inland transport
8028	Conveyance Reference Number	C	AN 17	
C220	MODE OF TRANSPORT	M		
8067	Mode of Transport	M	AN 3	2 = Rail 3 = Road 8 = Inland Water
C040	CARRIER	M		
3128	Carrier Name	M	AN 11	Abbreviated haulier name (Should be limited to 11 chars only)
8213	Transport ID	C	AN 9	Train ID/Number (if 8067 = 2) Truck ID/Number (if 8067 = 3) Barge ID/Number (if 8067 = 8)

Segment:
CNT Control Total

Position: 0180
 Group:
 Level: 0
 Usage: Mandatory
 Max Use: 1
 Purpose: A segment to specify the number of containers in the message, explicitly given by the sender.
 Notes: CNT+16:5'

Tag	Description	Status	Format	Remarks
C270	CONTROL	C		
6069	Control identifier	M	AN 3	Control Qualifier, in this case is "16"
6066	Control value	R	AN 18	The total number of reported equipment in message

Segment: **UNT** Message Trailer
Position: 0190
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.
Notes: UNT+**59**+**20110530133012**'

Tag	Description	Status	Format	Remarks
0074	Interchange control count	M	N 10	Number of lines including UNH and UNT segments in a message.
0062	Interchange control reference	M	AN 14	Format: YYYYMMDDHHMMSS Must be identical to UNH 0062.

Segment: **UNZ** Interchange Trailer
 Position: 0200
 Group:
 Level: 0
 Usage: Mandatory
 Max Use: 1
 Purpose: To end and check the completeness of an interchange.
 Notes: UNZ+1+SGSINT01'

Tag	Description	Status	Format	Remarks
0036	Number of Messages in an Interchange	M	N 6	Number of UNH segments in the EDI file.
0020	Message reference number	M	AN 14	Must match the auto generated number in UNB segment 0020 element.