USER MANUAL

(Implementation Guide)

UN/EDIFACT MESSAGE

BAPLIE

Version 3.1.1

D.13B

Source: **SMDG** – User Group for Shipping Lines and Container Terminals
Mail: secretariat@smdg.org Web: www.smdg.org

1 Introduction

These instructions are valid for version 3 of the "UN/EDIFACT UNITED NATIONS STANDARD MESSAGE (UNSM) **BAPLIE** (Bayplan/stowage plan occupied and empty locations) as defined in directory D.13B.

1.1 Structure of this document

Chapter 2 describes scope, fields of application and principles of the message. References to authors, maintainers and standards referred to in these guidelines are provided in chapter 3. It also lists changes compared to earlier versions of the message. The formal description of the message is given in chapter 4. It includes an introduction into conventions used for description.

Chapter 5 provides guidelines and examples for special use cases. The index at the end of the document provides reference into these extra explanations.

2 General

2.1 Functional definition

A message to transmit information about equipment (mostly containers) and goods on a means of transport (typically a container vessel), including their location on the means of transport.

2.2 Field of application

The Bayplan/stowage plan occupied and empty locations message may be used for both national and international applications. The reporting of empty locations has to be mutually agreed between partners.

The BAPLIE message is typically exchanged between a container terminal operator / stevedore, vessel operator, shipping line, ship's master, tonnage center, non-vessel operating common carrier, container operator, slot charterer, customs and other authorities.

It is based on universal practice related to monitoring the logistics transport chain and is not dependent on the type of business or industry.

2.3 Principles

BAPLIE has been designed for application with container vessels deployed in scheduled liner services. Message principles, however, might be applied in other areas of transportation too.

The message is used to transmit information related only to one vessel/voyage combination.

Information transmitted by the message is related to only one port of call.

It shows the status of cargo on board the vessel after departure from this port and by this also shows the arrival status at vessel's next port of call.

If created before vessel's departure, the message might be used to describe *draft* stage. If created after departure, it describes vessel's *final* stage.

Typically the message transmits information on all containers and other goods on board the vessel (Full BAPLIE). In that case the BAPLIE shows the total amount of occupied locations, cargo and containers on board the vessel.

It is also possible to transmit only cargo related to a single container operator (Partial BAPLIE).

The message contains the following vessel related information: Vessel name and identifier, related port and next port of call, arrival and departure dates at the related and next port of call.

The message contains the following cargo related information: Equipment ID, size-type code, weight, stowage location on the vessel and the responsible operator party, port of loading and discharge. Dependent on nature of cargo further attributes such as temperature control, identification of dangerous goods, non-standard dimensions, handling requirements may be added.

3 Document Maintenance

3.1 Authors and maintainers of this document

The data content of this document has been prepared and approved by SMDG and no alteration may be made to the content of this document without reference to and approval of SMDG.

Any remarks, questions, amendments or requested alterations to this document are to be addressed to :

SMDG
Kamerlingh Onnesweg 10C
2991 XL Barendrecht
The Netherlands

Phone: +31- (10) – 2941100
Fax: +31- (10) – 2941105
Email: secretariat@smdg.org

3.2 Standards referred to by this document

This message is based on *Edifact syntax* defined by ISO 9735. *Message's structure, segment, data elements and composite data elements* are defined by UN/CEFACT directory D.13B.

Data transmission is preferably takes place in coded form. D.13B includes code lists (UNCL) for many of its data elements. Some data elements allow usage of standardized code lists defined by *code list responsible agencies (CLRA)*. This document refers to code lists standardized by

- UN/ECE recommendations: 16-UNLOCODES, 19 – modes of transport, 20 – units of measure
- ISO: 9711 – stowage location, ISO 6346 – container identification and size type
- Lloyds Register of Shipping: IMO numbers
- ITU: call sign
- WCO: Harmonized System
- IMO: IMDG Code
- SMDG: Code lists published on website http://www.smdg.org

3.3 Version history

Version numbering schema

- 1st number: Fundamental revision of message structure
- 2nd number: Major revision like reference to a different version of UN/EDIFACT directory or change of usage indicators
- 3rd number: Editorial changes of this document

3.3.1 Version 3.0.1 and 3.0.2

- Base on directory D.13B
- Code for *Carbon Dioxide* in MEA position 00270 adjusted to directory.
- EQD position 00250: Adoptions according to *SMDG recommendation #2* for container identifications other than ISO-6346 (mostly shipper's owned containers).
- EQD position 00250: Use "%%" instead "99" in case container's size type is not completely according to ISO-6346.
- Modification of codes and usage indicators for data elements 1131 and 3055.

3.3.2 Version 3.1 and 3.1.1

- Amendments for transmission of SOLAS Verified Gross Mass. For Details see section 5.11.
- Version 3.1.1 is an update with editorial changes only.

3.3.3 Summary of changes related to BAPLIE version 2.1.1

Changes in message structure:

- Heading section:
  - more details about function of message sender and related messages
  - TDT group contains LOC group for relating schedule information to port
- Core part (stowage locations):
  - Weight, port of loading/discharge, operator, DG information, dimensions, temperature control are now transmitted in relation to equipment. In BAPLIE2 this information was related to stowage location.
  - Multiple units of equipment per stowage location allow more accurate specifications for transport of breakbulk and empty equipment.
  - Revised DGS group for comprehensive identification of DG-items' hazards including emergency contacts.
  - New LOC group for specification of details at discharge (block stow, priority, on-carriage).
  - New TMP group allowing to specify time-dependent temperature control.
  - New EQA group for specification of bundles.

Overall objective for version 3 of BAPLIE was to enhance the message in a way to reduce necessity for additional communication about details unaccounted for in the message. Improving accuracy and completeness of transmitted data serves for higher standards in vessel safety.

There are many cases where dimensions of containerized equipment are not sufficiently determined by its ISO size type code. New qualifiers for the DIM segment are provided (width of body, width at corner posts, actual height of telescopic end-walls, height of internal floor). The height specification allows for exact calculation of containers' vertical position in stacks. For containers the maximum allowable stacking weight can be specified.

Specifications for transport of un-containerized (breakbulk) data are improved. The weight of large breakbulk units can be distributed across multiple units of supporting equipment. This allows for more accurate validation of stack-weight limits. A qualifier for breakbulk's vertical center of gravity is added for more accurate determination of centers of gravity for vessel's stability calculation.

Stowage locations which can/must not be used can be specified together with the according reason. Blocking by oversize of other equipment (lost slot) refers to the equipment in charge.

Temperature settings and ranges for reefer containers can now be specified dependent as a function of date/time. Parameter settings for atmosphere control can be specified.

A categorization of BAPLIE messages has been defined according to

- *scope*
  - Full (all occupied stowage locations)
  - Part (only selected stowage locations, e.g. one operator only or only locations whose content changed in current port)
- *stage*
  - Final (message describes actual vessel status after departure)
  - Draft (message describes an intended status for departure, it may still change)

The BGM segment defines messages scope and stage as well as the specification of the subset for a partial message.

4 Message Description

4.1 Usage Indicators

This *Message Implementation Guide (MIG)* specifies usage indicators for the Edifact entities *segment, segment group, data element* and *composite data element* defined in this message. In this section the term *element* is used to refer to any of these Edifact entities. Usage indicators are defined on 2 levels

1. Directory: indicators *mandatory* and *conditional*
2. For conditional entities the MIG assigns refined indicators: *R –required, D - dependent, O - optional, X - not used*

M - mandatory
Element must be transmitted. This usage indicator is defined by dictionary and must not be overwritten by MIG.

C - conditional
According to dictionary not mandatory. Actual usage requirements of such elements are specified by MIG by indicators *required, dependent, (recommended,) optional, (not recommended)* or *not used.*

R - required
MIG defines element must be transmitted – although marked *conditional* in directory.

D - dependent
If a certain condition is true, this element must be transmitted. Otherwise it is optional. The condition can be defined by data transmitted in other elements as well as by semantic context of the element.

O - optional
Transmission of this element depends on semantic context. The recipient shall be able to process the element.

X - not used
Element must not be transmitted.

In description of message structure and segments the relevant usage indicators of elements are **indicated in the leftmost column**.

4.2 Conventions used in this MIG

Section 4.4Message implementation reference contains a comprehensive description of message's structure (sequence of segments and segment groups), the usage segments and segment groups as well as the usage of data elements and composite data elements. For directory defined code lists it lists the codes to be used in BAPLIE.

In addition chapter 5 Special Use Cases and Examples explains usage of segments and data elements for selected cases and shows some illustrative example. All implementations of message BAPLIE shall comply with the guidelines given in this chapter.

If section 4.4 Message Implementation Reference defines a usage indicator *dependent*, a note in segment's reference defines the kind of dependency. A dependency is called *semantic* if the reason is defined by the business case. In case dependency is based on data transmitted in other data element(s) these data elements are referred to by segment, segment's position in message structure, data element number (and where applicable composite data element number) as defined in the segment reference.

Chapter x of this document includes a lot of examples showing sequences of segments to be used if a certain business requirement is to be expressed in BAPLIE. For better readability segments a shown in a separate line each. Edifact interchanges do not allow for line separation. Thus in an actual message segments are to be concatenated. Each segment's terminating "" character is immediately to be followed by the first character of next segment's tag.

4.3 BAPLIE as part of an Edifact *Interchange*

Any Edifact message is transmitted as part of an *interchange*. While, by definition, a message always starts with an **UNH** segment and ends with an **UNT** segment, the interchange creates an envelope around the message. Formally, the interchange allows for transmission of multiple messages as a bundle. However, in context of these guidelines we ignore this possibility and silently assume an interchange to contain one BAPLIE message only.

The interchange encloses the BAPLIE message between an **UNB** and **UNZ** segment. The leading service segment UNB defines basic properties of an interchange

- *Syntax level (syntax identifier)*. It defines the character set and structuring elements used for the interchange. SMDG recommends to use syntax level **UNOA**. (For definition of this character set see section 5.1 in document http://www.gefeg.com/jswg/v3/data/v2-9735.pdf) The use of any other syntax level requires explicit bilateral agreement between communication partners.
- *Syntax version*. SMDG recommends to use version **2**. Version 1 would not be compliant with current EDIFACT directories. Version 3 might be required for some of the syntax levels. Version 4 refers to major extensions of EDIFACT syntax which cannot be used with this version of BAPLIE. (For a document summarizing differences in EDIFACT's syntax versions see http://www.gefeg.com/jswg/v4/data/v1234_diff.htm

UNB furthermore contains information about sender, recipient, creation time, a unique interchange id and other information which might be useful for routing the interchange to the system processing the message.

The trailing UNZ segment contains a control count and terminates the interchange.

EDIFACT syntax optionally allows the UNB to be prepended by a service string advice **UNA**. SMDG recommends not to use UNA. Its use requires explicit agreement between sender and recipient.

In EDIFACT interchanges characters **+ : '** and **?** have a reserved meaning. A special *release character* "**?**" has been defined to allow these characters to become part of payload data. Using this release function a source data string:

```
9'6 CONTAINERS: 7 + ?MORE
```

will have a release character inserted before each of the reserved characters:

```
9?'6 CONTAINERS?: 7 ?+ ??MORE
```

Message BAPLIE requires this release function to be implemented for sending and processing of interchanges.

Officially, EDIFACT interchanges do not allow for line separators. For improvement of human readability, sometimes line separators are inserted after each segment. Also this document puts segments on separate lines in the below examples. Although line separators might be useful for internal purposes they shall not become part of interchanges transmitted between communication partners.

4.4 Message Implementation Reference

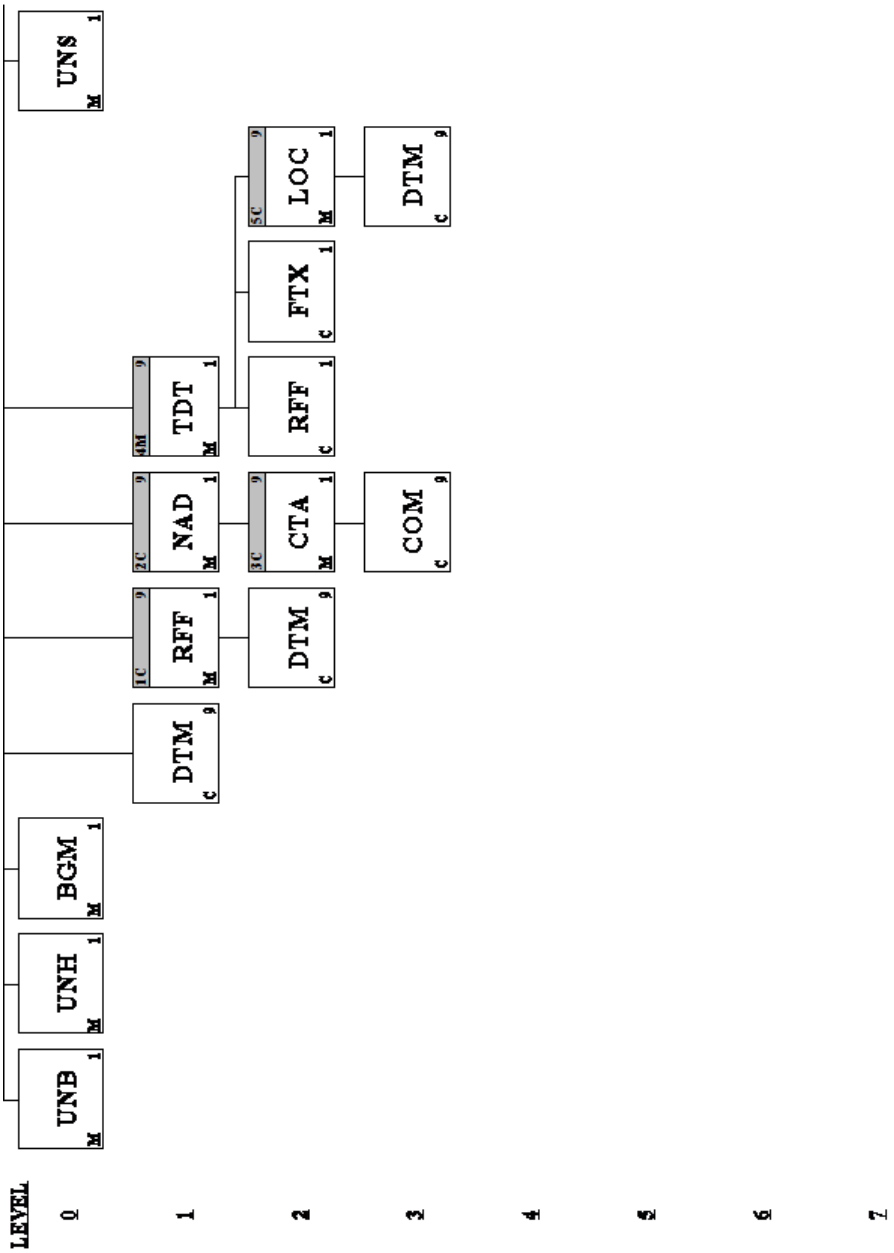
BAPLIE v3.1 - Bayplan/Stowage Plan Occupied and Empty Locations Message

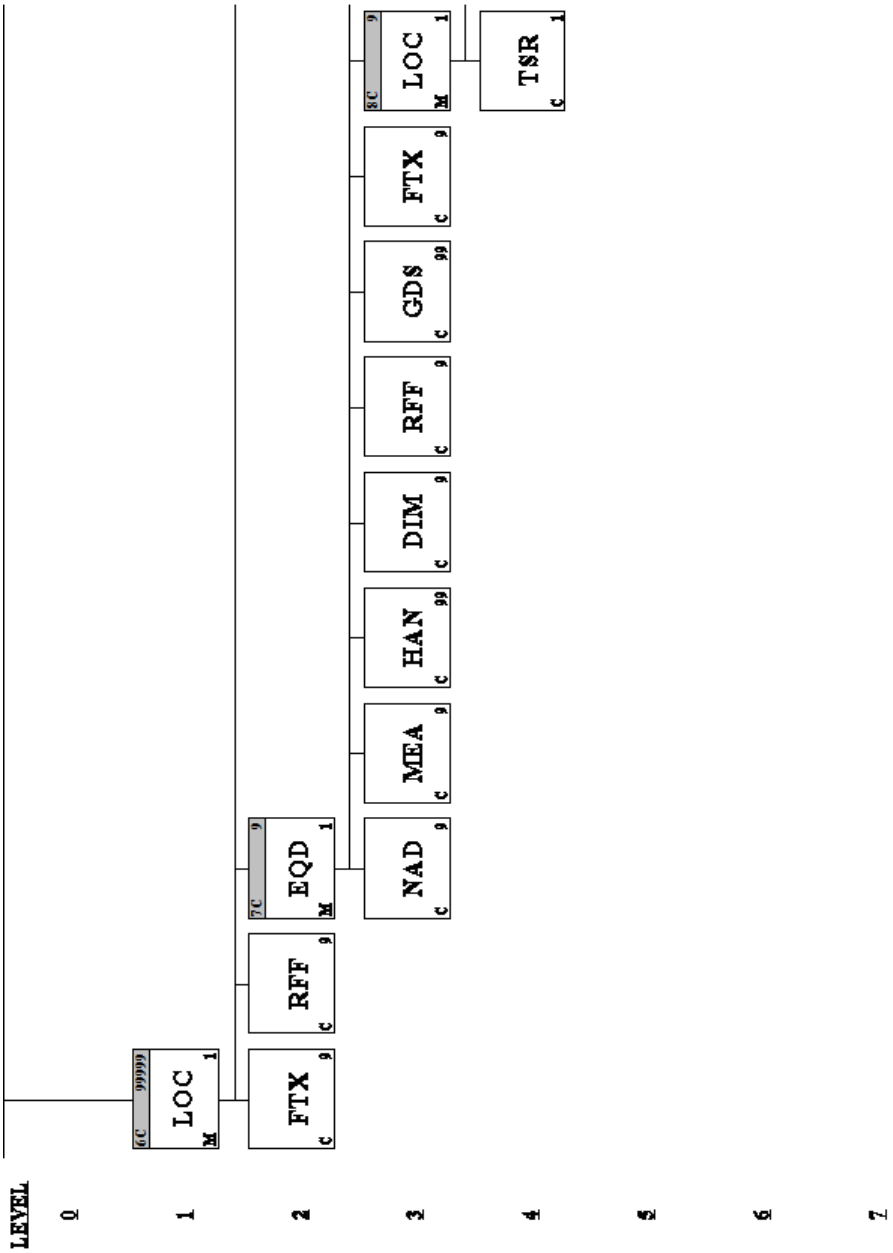
Introduction:

A message to transmit information about equipment (mostly containers) and goods on a means of transport (typically a container vessel), including their location on the means of transport.

MIG Usage	Pos. No.	Seg. ID	Name	Directory Usage	Max.Use	Group Repeat
M	00005	UNB	Interchange Header	M	1	
M	00010	UNH	Message Header	M	1	
M	00020	BGM	Beginning of Message	M	1	
R	00030	DTM	Date/Time/Period	C	9	
O	00040		Segment Group 1: RFF-DTM	C		9
M	00050	RFF	Reference	M	1	
O	00060	DTM	Date/Time/Period	C	9	
O	00070		Segment Group 2: NAD-SG3	C		9
M	00080	NAD	Name and Address	M	1	
O	00090		Segment Group 3: CTA-COM	C		9
M	00100	CTA	Contact Information	M	1	
O	00110	COM	Communication Contact	C	9	
M	00120		Segment Group 4: TDT-RFF-FTX-SG5	M		9
M	00130	TDT	Transport Information	M	1	
R	00140	RFF	Reference	C	1	
O	00150	FTX	Free Text	C	1	
R	00160		Segment Group 5: LOC-DTM	C		9
M	00170	LOC	Place/Location Identification	M	1	
R	00180	DTM	Date/Time/Period	C	9	
M	00190	UNS	Section Control	M	1	
R	00200		Segment Group 6: LOC-FTX-RFF-SG7-CNT	C		99999
M	00210	LOC	Place/Location Identification	M	1	
D	00220	FTX	Free Text	C	9	
D	00230	RFF	Reference	C	9	
D	00240		Segment Group 7: EQD-NAD-MEA-HAN-DIM-RFF-GDS-FTX-SG8-SG9-SG10-SG11	C		9
M	00250	EQD	Equipment Details	M	1	
D	00260	NAD	Name and Address	C	9	
R	00270	MEA	Measurements	C	9	
O	00280	HAN	Handling Instructions	C	99	
O	00290	DIM	Dimensions	C	9	
D	00300	RFF	Reference	C	9	

O	00310	GDS	Nature of Cargo	C	99	
O	00320	FTX	Free Text	C	9	
O	00330		Segment Group 8: LOC-TSR-TDT	C		9
M	00340	LOC	Place/Location Identification	M	1	
O	00350	TSR	Transport Service Requirements	C	1	
O	00360	TDT	Transport Information	C	1	
O	00370		Segment Group 9: TMP-RNG-DTM	C		9
M	00380	TMP	Temperature	M	1	
O	00390	RNG	Range Details	C	1	
D	00400	DTM	Date/Time/Period	C	1	
O	00410		Segment Group 10: EQA-NAD	C		9
M	00420	EQA	Attached Equipment	M	1	
O	00430	NAD	Name and Address	C	1	
O	00440		Segment Group 11: DGS-ATT-MEA-FTX-SG12	C		999
M	00450	DGS	Dangerous Goods	M	1	
O	00460	ATT	Attribute	C	9	
O	00470	MEA	Measurements	C	9	
O	00480	FTX	Free Text	C	9	
O	00490		Segment Group 12: CTA-COM	C		9
M	00500	CTA	Contact Information	M	1	
R	00510	COM	Communication Contact	C	9	
M	00520	CNT	Control Total	M	1	
M	00530	UNT	Message Trailer	M	1	
M	00535	UNZ	Interchange Trailer	M	1	


LEVEL
0
1
2
3
4
5
6
7
UNB
M 1
UNH
M 1
BGM
M 1
UNS
M 1
DTM
C 9
RFF
M 1
1C
DTM
C 9
NAD
M 1
2C
CTA
M 1
3C
COM
C 9
TDT
M 1
4M
RFF
C 1
FTX
C 1
LOC
M 1
5C
DTM
C 9


LEVEL
0
1
2
3
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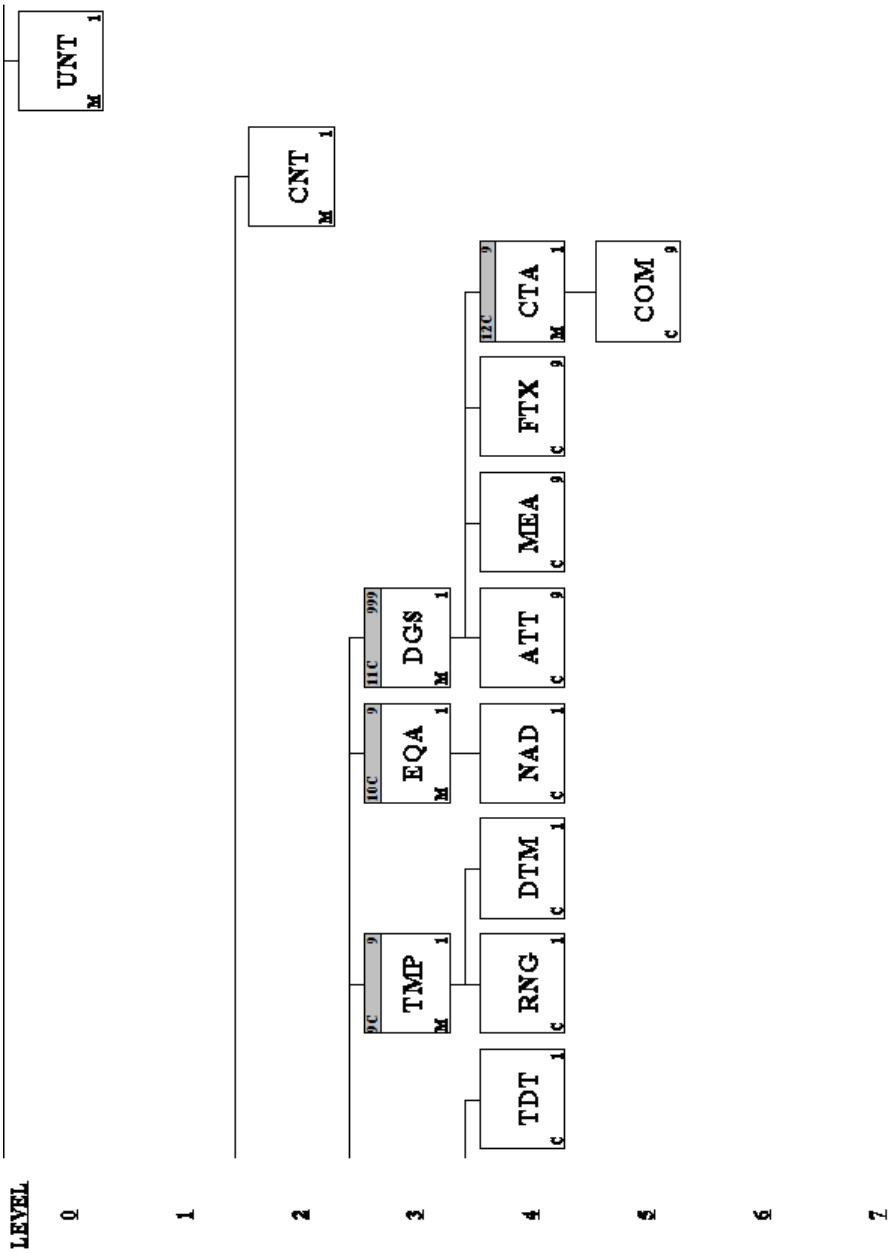
5
6
7
LOC
FTX
RFF
EQD
NAD
MEA
HAN
DIM
RFF
GDS
FTX
LOC
TSR


UNT
M 1
CNT
M 1
TMP
M 1
9C 9
RNG
C 1
DTM
C 1
TDT
C 1
EQA
M 1
10C 9
NAD
C 1
DGS
M 1
11C 999
ATT
C 9
MEA
C 9
FTX
C 9
CTA
M 1
12C 9
COM
C 9
LEVEL
0
1
2
3
4
5
6
7


UNZ
M 1
LEVEL
0
1
2
3
4
5
6
7

Segment: **UNB** **Interchange Header**
Position: 00005
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To start, identify and specify an interchange
Notes: **Keyword(s):**
interchange
Example(s):

```
UNB+UNOA:2+SENDER ID+RECIPIENT ID+991231:2359+ICHNG
ID+++++ABC'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**S001**		**SYNTAX IDENTIFIER**	**M**	**1**	
			Identification of the agency controlling the syntax and indication of syntax level. **SMDG recommends to use syntax identifier UNOA and syntax version number 2.** **-S001.0001=UNOA, S001.0002=2** **Use of other combinations requires an extra bilateral agreement.**			
M		**0001**	**Syntax identifier**	**M**		**a4**
			Coded identification of the agency controlling a syntax and syntax level used in an interchange. *UNOA* *UN/ECE level A* *UNOB* *UN/ECE level B* *UNOC* *UN/ECE level C* *UNOD* *UN/ECE level D* *UNOE* *UN/ECE level E* *UNOF* *UN/ECE level F*			
M		**0002**	**Syntax version number**	**M**		**n1**
			Version number of the syntax identified in the syntax identifier (0001). *2* *Version 2* *3* *Version 3*			
M	**S002**		**INTERCHANGE SENDER**	**M**	**1**	
			Identification of the sender of the interchange.			
M		**0004**	**Sender identification**	**M**		**an..35**
			Name or coded representation of the sender of a data interchange.			
O		**0007**	**Partner identification code qualifier**	**C**		**an..4**
			Qualifier referring to the source of codes for the identifiers of interchanging partners. Refer to D.13B Data Element Dictionary for acceptable code values.			
O		**0008**	**Address for reverse routing**	**C**		**an..14**
			Address specified by the sender of an interchange to be included by the recipient in the response interchanges to facilitate internal routing.			
M	**S003**		**INTERCHANGE RECIPIENT**	**M**	**1**	
			Identification of the recipient of the interchange.			
M		**0010**	**Recipient identification**	**M**		**an..35**
			Name or coded representation of the recipient of a data interchange.			

O		**0007**	**Partner identification code qualifier** Qualifier referring to the source of codes for the identifiers of interchanging partners. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**		**an..4**
O		**0014**	**Routing address** Address specified by the recipient of an interchange to be included by the sender and used by the recipient for routing of received interchanges inside his organization.	**C**		**an..14**
M	**S004**		**DATE AND TIME OF PREPARATION** Date and time of preparation of the interchange.	**M**	**1**	
M		**0017**	**Date of preparation** Local date when an interchange or a functional group was prepared.	**M**		**n6**
M		**0019**	**Time of preparation** Local time of day when an interchange or a functional group was prepared.	**M**		**n4**
M	**0020**		**INTERCHANGE CONTROL REFERENCE** Unique reference assigned by the sender to an interchange.	**M**	**1**	**an..14**
O	**S005**		**RECIPIENTS REFERENCE PASSWORD** Reference or password as agreed between the communicating partners.	**C**	**1**	
M		**0022**	**Recipient reference/password** Unique reference assigned by the recipient to the data interchange or a password to the recipient's system or to a third party network as specified in the partners interchange agreement.	**M**		**an..14**
O		**0025**	**Recipient reference/password qualifier** Qualifier for the recipient's reference or password. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**		**an2**
O	**0026**		**APPLICATION REFERENCE** Identification of the application area assigned by the sender, to which the messages in the interchange relate e.g. the message identifier if all the messages in the interchange are of the same type.	**C**	**1**	**an..14**
O	**0029**		**PROCESSING PRIORITY CODE** Code determined by the sender requesting processing priority for the interchange. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**	**1**	**a1**
O	**0031**		**ACKNOWLEDGEMENT REQUEST** Code determined by the sender for acknowledgement of the interchange. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**	**1**	**n1**
O	**0032**		**COMMUNICATIONS AGREEMENT ID** Identification by name or code of the type of agreement under which the interchange takes place.	**C**	**1**	**an..35**
O	**0035**		**TEST INDICATOR** Indication that the interchange is a test. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**	**1**	**n1**

Segment: **UNH** **Message Header**
Position: 00010
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A service segment starting and uniquely identifying a message. The message type code for the Bayplan/stowage plan occupied and empty locations message is BAPLIE.
Note: Bayplan/stowage plan occupied and empty locations messages conforming to this document must contain the following data in segment UNH, composite S009:

Data element
0065 BAPLIE
0052 D
0054 13B
0051 UN

Notes: **Keyword(s):**
message identifier, message reference ID
Example(s):

```
UNH+BAPLIE ID+BAPLIE:D:13B:UN:SMDG31'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**0062**		**MESSAGE REFERENCE NUMBER**	**M**	**1**	**an..14**
			Unique message reference assigned by the sender. This reference must also be transmitted in message's trailer segment UNT.			
M	**S009**		**MESSAGE IDENTIFIER**	**M**	**1**	
			Identification of the type, version etc. of the message being interchanged.			
M		**0065**	**Message type identifier**	**M**		**an..6**
			Code identifying a type of message and assigned by its controlling agency.			
			BAPLIE *Bayplan/stowage plan occupied and empty locations message*			
M		**0052**	**Message type version number**	**M**		**an..3**
			Version number of a message type.			
			D *Draft version/UN/EDIFACT Directory*			
M		**0054**	**Message type release number**	**M**		**an..3**
			Release number within the current message type version number (0052).			
			13B *Release 2013 - B*			
M		**0051**	**Controlling agency**	**M**		**an..2**
			Code identifying the agency controlling the specification, maintenance and publication of the message type.			
			UN *UN/CEFACT*			
R		**0057**	**Association assigned code**	**C**		**an..6**
			Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message.			
			Reference to version of message implementation guide.			
			SMDG31 *SMDG User Manual version number 3.1*			
O	**0068**		**COMMON ACCESS REFERENCE**	**C**	**1**	**an..35**
			Reference serving as a key to relate all subsequent transfers of data to the same business case or file.			
O	**S010**		**STATUS OF THE TRANSFER**	**C**	**1**	

		Statement that the message is one in a sequence of transfers relating to the same topic.		
M	**0070**	**Sequence message transfer number**	**M**	**n..2**
		Number assigned by the sender indicating that the message is an addition or change of a previously sent message relating to the same topic.		
O	**0073**	**First/last sequence message transfer indication**	**C**	**a1**
		Indication used for the first and last message in a sequence of the same type of message relating to the same topic. Refer to D.13B Data Element Dictionary for acceptable code values.		

Segment: **BGM** **Beginning of Message**
Position: 00020
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A segment to indicate the type and function of the message and to transmit the identifying number. The type and function of a BAPLIE message are determined by the following 3 components:

C002.1001: Scope of bayplan, "full" or "partial"
C002.1000: In the case of a partial bayplan provides additional defining text
DE 1373: Stage of bayplan, "draft" or "final"

Notes:

Type and function of a BAPLIE message are determined by 3 components:

C002.1001: Scope: "full" or "partial" bayplan
1373: Stage: "draft" or "final" bayplan
C002.1000: in case of partial baplan identification of bayplan content

Keyword(s):

types of BAPLIE message, final bayplan, draft bayplan, full bayplan, partial bayplan

Example(s):

```
BGM+658++++29' (full bayplan, draft stage)
BGM+659:::SINGLEOP++++38' (partial bayplan, single
operator, final stage)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
R	**C002**		**DOCUMENT/MESSAGE NAME**	**C**	**1**
			Identification of a type of document/message by code or name. Code preferred.		
R		**1001**	**Document type code**	**C**	**an..3**
			Code specifying the message type.		
			Use only message type codes distinctly defined for message BAPLIE.		
			658 *Bayplan/stowage plan, full*		
			659 *Bayplan/stowage plan, partial*		
X		**1131**	**Code list identification code**	**C**	**an..17**
			Code identifying a user or association maintained code list.		
X		**3055**	**Code list responsible agency code**	**C**	**an..3**
			Code specifying the agency responsible for a code list.		
D		**1000**	**Document name**	**C**	**an..35**
			Name of a document.		
			Dependency: **Required in case of partial bayplan (C002.1001 = 659):** **Codes to be transmitted:** **SINGLEOP - bayplan contains only stowage location used by selected operator** **LOADONLY - bayplan contains only stowage locations whose content changed in current port**		
O	**C106**		**DOCUMENT/MESSAGE IDENTIFICATION**	**C**	**1**
			Identification of a document/message by its number and eventually its version or revision.		

R		**1004**	**Document identifier** To identify a document. **Repetition of message identifier as specified by UNH.0062.**	**C**		**an..70**
O		**1056**	**Version identifier** To identify a version.	**C**		**an..9**
O		**1060**	**Revision identifier** To identify a revision.	**C**		**an..6**
O	**1225**		**MESSAGE FUNCTION CODE** Code indicating the function of the message.	**C**	**1**	**an..3**
O	**4343**		**RESPONSE TYPE CODE** Code specifying the type of acknowledgment required or transmitted. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**	**1**	**an..3**
R	**1373**		**DOCUMENT STATUS CODE** Code specifying the status of a document. *29* *Provisional* *38* *Final*	**C**	**1**	**an..3**

Segment: **DTM** **Date/Time/Period**
Position: 00030
Group:
Level: 1
Usage: Conditional (Required)
Max Use: 9
Purpose: A segment to indicate dates and times for the entire message including the date and time of the preparation of the message.

Notes: **Example(s):**

```
DTM+137:201312312359:203'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C507**		**DATE/TIME/PERIOD**	**M**	**1**
			Date and/or time, or period relevant to the specified date/time/period type.		
			It is recommended to transmit date and time as UTC.		
M		**2005**	**Date or time or period function code qualifier**	**M**	**an..3**
			Code qualifying the function of a date, time or period.		
			137 *Document issue date time*		
R		**2380**	**Date or time or period text**	**C**	**an..35**
			The value of a date, a date and time, a time or of a period in a specified representation.		
R		**2379**	**Date or time or period format code**	**C**	**an..3**
			Code specifying the representation of a date, time or period.		
			102 *CCYYMMDD*		
			203 *CCYYMMDDHHMM*		

Group: **RFF** **Segment Group 1: Reference**
Position: 00040
Group:
Level: 1
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group of segments to specify the document or message to which the current message relates, and related dates and times.

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00050	RFF	Reference	M	1	
O	00060	DTM	Date/Time/Period	C	9	

Segment: **RFF** **Reference**
Position: 00050 (Trigger Segment)
Group: Segment Group 1 (Reference) Conditional (Optional)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment to identify a reference which applies to the entire message, e.g. the reference to a previous message.
Notes: **Example(s):**

```
RFF+AGO:BAPLIE ID'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C506**		**REFERENCE**	**M**	**1**
			Identification of a reference.		
M		**1153**	**Reference code qualifier**	**M**	**an..3**
			Code qualifying a reference.		
			ACW *Reference number to previous message*		
			AGO *Sender's reference to the original message*		
			MS *Message sender*		
R		**1154**	**Reference identifier**	**C**	**an..70**
			Identifies a reference.		
O		**1156**	**Document line identifier**	**C**	**an..6**
			To identify a line of a document.		
O		**1056**	**Version identifier**	**C**	**an..9**
			To identify a version.		
O		**1060**	**Revision identifier**	**C**	**an..6**
			To identify a revision.		

Segment: **DTM** **Date/Time/Period**
Position: 00060
Group: Segment Group 1 (Reference) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 9
Purpose: A segment to indicate dates and times relating to the reference.
Notes: **Example(s):**

```
DTM+171+199912281415UTC:303'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C507**		**DATE/TIME/PERIOD**	**M**	**1**
			Date and/or time, or period relevant to the specified date/time/period type.		
M		**2005**	**Date or time or period function code qualifier**	**M**	**an..3**
			Code qualifying the function of a date, time or period.		
			171 *Reference date/time*		
R		**2380**	**Date or time or period text**	**C**	**an..35**
			The value of a date, a date and time, a time or of a period in a specified representation.		
R		**2379**	**Date or time or period format code**	**C**	**an..3**
			Code specifying the representation of a date, time or period.		
			203 *CCYYMMDDHHMM*		
			303 *CCYYMMDDHHMMZZZ*		

Group: **NAD** **Segment Group 2: Name and Address**
Position: 00070
Group:
Level: 1
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group of segments to identify a party for the entire message including the message sender and related contacts.
Notes: **Used to identify the message sender and its function in the business process.**

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00080	NAD	Name and Address	M	1	
	00090		Segment Group 3: Contact Information	C		9

Segment: **NAD** **Name and Address**
Position: 00080 (Trigger Segment)
Group: Segment Group 2 (Name and Address) Conditional (Optional)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment to specify the name/address of the party and to identify the party role.
Notes: **Example(s):**

```
NAD+WZ+CTA:TERMINALS:306'
NAD+CA+HSD:LINES:306'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**3035**		**PARTY FUNCTION CODE QUALIFIER** Code giving specific meaning to a party. *CA* *Carrier* *CG* *Carrier's agent* *WZ* *Departure terminal operator*	**M**	**1**	**an..3**
O	**C082**		**PARTY IDENTIFICATION DETAILS** Identification of a transaction party by code.	**C**	**1**	
M		**3039**	**Party identifier** Code specifying the identity of a party.	**M**		**an..35**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list. *LINES* *SMDG code list for liner codes* *TERMINALS* *SMDG code list for terminal facilities*	**C**		**an..17**
R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. *306* *SMDG (Ship-planning Message Design Group)*	**C**		**an..3**
X	**C058**		**NAME AND ADDRESS** Unstructured name and address: one to five lines.	**C**	**1**	
X		**3124**	**Name and address description** Free form description of a name and address line.	**M**		**an..35**
X		**3124**	**Name and address description** Free form description of a name and address line.	**C**		**an..35**
X		**3124**	**Name and address description** Free form description of a name and address line.	**C**		**an..35**
X		**3124**	**Name and address description** Free form description of a name and address line.	**C**		**an..35**
X		**3124**	**Name and address description** Free form description of a name and address line.	**C**		**an..35**
X	**C080**		**PARTY NAME** Identification of a transaction party by name, one to five lines. Party name may be formatted.	**C**	**1**	
X		**3036**	**Party name** Name of a party.	**M**		**an..70**
X		**3036**	**Party name** Name of a party.	**C**		**an..70**
X		**3036**	**Party name**	**C**		**an..70**

			Name of a party.			
X		**3036**	**Party name**	**C**		**an..70**
			Name of a party.			
X		**3036**	**Party name**	**C**		**an..70**
			Name of a party.			
X		**3045**	**Party name format code**	**C**		**an..3**
			Code specifying the representation of a party name.			
X	**C059**		**STREET**	**C**	**1**	
			Street address and/or PO Box number in a structured address: one to four lines.			
X		**3042**	**Street and number or post office box identifier**	**M**		**an..35**
			To identify a street and number and/or Post Office box number.			
X		**3042**	**Street and number or post office box identifier**	**C**		**an..35**
			To identify a street and number and/or Post Office box number.			
X		**3042**	**Street and number or post office box identifier**	**C**		**an..35**
			To identify a street and number and/or Post Office box number.			
X		**3042**	**Street and number or post office box identifier**	**C**		**an..35**
			To identify a street and number and/or Post Office box number.			
X	**3164**		**CITY NAME**	**C**	**1**	**an..35**
			Name of a city.			
X	**C819**		**COUNTRY SUBDIVISION DETAILS**	**C**	**1**	
			To specify a country subdivision, such as state, canton, county, prefecture.			
X		**3229**	**Country subdivision identifier**	**C**		**an..9**
			To identify a country subdivision, such as state, canton, county, prefecture.			
X		**1131**	**Code list identification code**	**C**		**an..17**
			Code identifying a user or association maintained code list.			
X		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list.			
X		**3228**	**Country subdivision name**	**C**		**an..70**
			Name of a country subdivision, such as state, canton, county, prefecture.			
X	**3251**		**POSTAL IDENTIFICATION CODE**	**C**	**1**	**an..17**
			Code specifying the postal zone or address.			
X	**3207**		**COUNTRY IDENTIFIER**	**C**	**1**	**an..3**
			Identification of the name of the country or other geographical entity as defined in ISO 3166-1 and UN/ECE Recommendation 3.			

Group: **CTA** **Segment Group 3: Contact Information**
Position: 00090
Group: Segment Group 2 (Name and Address) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group of segments to identify a contact and its communications related to the party.
Notes: **To be used if sending party cannot be specified sufficiently by NAD.C082.3039.**

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00100	CTA	Contact Information	M	1	
O	00110	COM	Communication Contact	C	9	

Segment: **CTA** **Contact Information**
Position: 00100 (Trigger Segment)
Group: Segment Group 3 (Contact Information) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment to identify a person or department within the party.
Notes: **Example(s):**

```
CTA+MS+STOW CENTER:PLANNER NAME'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
R	**3139**		**CONTACT FUNCTION CODE** Code specifying the function of a contact (e.g. department or person). *AH* *Coordination contact*	**C**	**1**	**an..3**
O	**C056**		**CONTACT DETAILS** Code and/or name of a contact such as a department or employee. Code preferred. **Optionally use subsequent COM segment(s) for specification of communication details like phone number, email address, etc.**	**C**	**1**	
O		**3413**	**Contact identifier** To identify a contact, such as a department or employee.	**C**		**an..17**
O		**3412**	**Contact name** Name of a contact, such as a department or employee.	**C**		**an..256**

Segment: **COM** **Communication Contact**
Position: 00110
Group: Segment Group 3 (Contact Information) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 9
Purpose: A segment to identify communication numbers or email addresses for a person or department to whom communication should be directed.
Notes: **Example(s):**

```
COM+NAME(A)LINE.COM:EM'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C076**		**COMMUNICATION CONTACT**	**M**	**3**
			Communication number of a department or employee in a specified channel.		
M		**3148**	**Communication address identifier**	**M**	**an..512**
			To identify a communication address.		
M		**3155**	**Communication means type code**	**M**	**an..3**
			Code specifying the type of communication address.		
			AL *Cellular phone*		
			AV *Inmarsat call number*		
			EM *Electronic mail*		
			FX *Telefax*		
			MA *Mail*		
			TE *Telephone*		

Group: **TDT** **Segment Group 4: Transport Information**
Position: 00120
Group:
Level: 1
Usage: Mandatory
Max Use: 9
Purpose: A group of segments identifying the means of transport and related details for a transport stage. Transmission of this group is mandatory for the current stage of transport.

Notes: **Transmission of this group is mandatory for current stage of transport.**

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00130	TDT	Transport Information	M	1	
R	00140	RFF	Reference	C	1	
O	00150	FTX	Free Text	C	1	
	00160		Segment Group 5: Place/Location Identification	C		9

Segment: **TDT** **Transport Information**
Position: 00130 (Trigger Segment)
Group: Segment Group 4 (Transport Information) Mandatory
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment to provide transport information for this transport stage such as the means of transport and discharge voyage number.
Notes: **Keyword(s):**
vessel operator, vessel identification, discharge voyage number
Example(s):

```
TDT+20+123E45+++HLC:LINES:306+++9501344::11:BASLE EXPRESS'
(IMO number)
TDT+20+123E45+++HLC:LINES:306+++DFGN2::296:BASLE EXPRESS'
(call sign)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**8051**		**TRANSPORT STAGE CODE QUALIFIER** Code qualifying a specific stage of transport. *20* *Main-carriage transport*	**M**	**1**	**an..3**
R	**8028**		**MEANS OF TRANSPORT JOURNEY IDENTIFIER** To identify a journey of a means of transport. **Discharge voyage number as assigned by the vessel operator or his agent.**	**C**	**1**	**an..17**
O	**C220**		**MODE OF TRANSPORT** Method of transport code or name. Code preferred.	**C**	**1**	
R		**8067**	**Transport mode name code** Code specifying the name of a mode of transport. **Code from UN/ECE recommendation 19.** *1* *Maritime transport*	**C**		**an..3**
O		**8066**	**Transport mode name** Name of a mode of transport.	**C**		**an..17**
X	**C001**		**TRANSPORT MEANS** Code and/or name identifying the type of means of transport.	**C**	**1**	
X		**8179**	**Transport means description code** Code specifying the means of transport.	**C**		**an..8**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
X		**8178**	**Transport means description** Free form description of the means of transport.	**C**		**an..17**
R	**C040**		**CARRIER** Identification of a carrier by code and/or by name. Code preferred. **This composite identifies the vessel operator.**	**C**	**1**	
R		**3127**	**Carrier identifier** To identify a carrier.	**C**		**an..17**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**

			LINES *SMDG code list for liner codes*			
R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. *306* *SMDG (Ship-planning Message Design Group)*	**C**		**an..3**
O		**3126**	**Carrier name** Name of a carrier.	**C**		**an..35**
X	**8101**		**TRANSIT DIRECTION INDICATOR CODE** Code specifying the direction of transport.	**C**	**1**	**an..3**
X	**C401**		**EXCESS TRANSPORTATION INFORMATION** To provide details of reason for, and responsibility for, use of transportation other than normally utilized.	**C**	**1**	
X		**8457**	**Excess transportation reason code** Code specifying the reason for excess transportation.	**M**		**an..3**
X		**8459**	**Excess transportation responsibility code** Code specifying the responsibility for excess transportation.	**M**		**an..3**
X		**7130**	**Customer shipment authorisation identifier** To identify the authorisation to ship issued by the customer.	**C**		**an..17**
R	**C222**		**TRANSPORT IDENTIFICATION** Code and/or name identifying the means of transport. **Unique vessel identification**	**C**	**1**	
R		**8213**	**Transport means identification name identifier** Identifies the name of the transport means. **Preferably specify IMO-number specified by Lloyd's register of shipping - C222.1131=IMO, C222.3055=11** **Alternately specify call sign specified by ITU - C222.131=CALLSIGN, C222.3055=296**	**C**		**an..35**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list. *CALLSIGN* *radio communications call sign* *IMO* *IMO number, unique identifier registered by Lloyd's Register of Shipping*	**C**		**an..17**
R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. *11* *Lloyd's register of shipping* *296* *ITU (International Telecommunication Union)*	**C**		**an..3**
O		**8212**	**Transport means identification name** Name identifying a means of transport.	**C**		**an..70**
O		**8453**	**Transport means nationality code** Code specifying the nationality of a means of transport.	**C**		**an..3**
X	**8281**		**TRANSPORT MEANS OWNERSHIP INDICATOR CODE** Code indicating the ownership of a means of transport.	**C**	**1**	**an..3**

Segment: **RFF** **Reference**
Position: 00140
Group: Segment Group 4 (Transport Information) Mandatory
Level: 2
Usage: Conditional (Required)
Max Use: 1
Purpose: A segment to identify references for this transport stage such as the loading voyage number.
Notes: **Use this segment to specify the loading voyage number.**
Specify discharge voyage number in DE8028 of previous TDT segment.
Keyword(s):
loading voyage number
Example(s):

```
RFF+VON:123W38'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C506**		**REFERENCE**	**M**	**1**
			Identification of a reference.		
M		**1153**	**Reference code qualifier**	**M**	**an..3**
			Code qualifying a reference.		
			Loading voyage number		
			VON Voyage number		
R		**1154**	**Reference identifier**	**C**	**an..70**
			Identifies loading voyage number..		
			loading voyage number as assigned by vessel operator or his agent		
X		**1156**	**Document line identifier**	**C**	**an..6**
			To identify a line of a document.		
X		**1056**	**Version identifier**	**C**	**an..9**
			To identify a version.		
X		**1060**	**Revision identifier**	**C**	**an..6**
			To identify a revision.		

Segment: **FTX** **Free Text**
Position: 00150
Group: Segment Group 4 (Transport Information) Mandatory
Level: 2
Usage: Conditional (Optional)
Max Use: 1
Purpose: A segment to transmit general information about the transport stage.
Notes: **Use this segment for supplementary information about vessel, voyage and port/terminal calls.**

Example(s):

```
FTX+ZZZ+++NOTE ABOUT MEANS OF TRANSPORT, PORT SEQUENCE,
SCHEDULE, ETC'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**4451**		**TEXT SUBJECT CODE QUALIFIER** Code qualifying the subject of the text. Refer to D.13B Data Element Dictionary for acceptable code values.	**M**	**1**	**an..3**
X	**4453**		**FREE TEXT FUNCTION CODE** Code specifying the function of free text.	**C**	**1**	**an..3**
O	**C107**		**TEXT REFERENCE** Coded reference to a standard text and its source. **In case supplementary information is transmitted in coded form code list identification in C107.1131 and C107.3055 is required.**	**C**	**1**	
M		**4441**	**Free text description code** Code specifying free form text.	**M**		**an..17**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**		**an..3**
O	**C108**		**TEXT LITERAL** Free text; one to five lines.	**C**	**1**	
M		**4440**	**Free text** Free form text.	**M**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
X	**3453**		**LANGUAGE NAME CODE** Code specifying the language name.	**C**	**1**	**an..3**
X	**4447**		**FREE TEXT FORMAT CODE** Code specifying the format of free text.	**C**	**1**	**an..3**

Group: **LOC** **Segment Group 5: Place/Location Identification**
Position: 00160
Group: Segment Group 4 (Transport Information) Mandatory
Level: 2
Usage: Conditional (Required)
Max Use: 9
Purpose:

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00170	LOC	Place/Location Identification	M	1	
R	00180	DTM	Date/Time/Period	C	9	

Segment: **LOC** **Place/Location Identification**
Position: 00170 (Trigger Segment)
Group: Segment Group 5 (Place/Location Identification) Conditional (Required)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment to identify a location related to the transport stage such as current or next port of call.
Notes: **Example(s):**

```
LOC+5+AEJEA+DPWJA:TERMINALS:306' (terminal in port)
LOC+61+LKCMB'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**3227**		**LOCATION FUNCTION CODE QUALIFIER** Code identifying the function of a location. *5* *Place of departure* *61* *Next port of call*	**M**	**1**	**an..3**
R	**C517**		**LOCATION IDENTIFICATION** Identification of a location by code or name.	**C**	**1**	
R		**3225**	**Location identifier** To identify a location. **Always use UN/locodes as defined by http://www.unece.org/cefact/locode/service/location.html**	**C**		**an..35**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
O		**3224**	**Location name** Name of the location.	**C**		**an..256**
D	**C519**		**RELATED LOCATION ONE IDENTIFICATION** Identification the first related location by code or name. **Dependency (semantic):** **Required if multiple terminals are called in the port specified by C517.3225.**	**C**	**1**	
R		**3223**	**First related location identifier** To identify a first related location.	**C**		**an..35**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list. *TERMINALS* *SMDG code list for terminal facilities*	**C**		**an..17**
R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. *306* *SMDG (Ship-planning Message Design Group)*	**C**		**an..3**
O		**3222**	**First related location name** Name of first related location.	**C**		**an..70**
X	**C553**		**RELATED LOCATION TWO IDENTIFICATION** Identification of second related location by code or name.	**C**	**1**	
X		**3233**	**Second related location identifier** To identify a second related location.	**C**		**an..35**
X		**1131**	**Code list identification code**	**C**		**an..17**

			Code identifying a user or association maintained code list.			
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
X		**3232**	**Second related location name** Name of the second related location.	**C**		**an..70**
X	**5479**		**RELATION CODE** Code specifying a relation.	**C**	**1**	**an..3**

Segment: **DTM** **Date/Time/Period**
Position: 00180
Group: Segment Group 5 (Place/Location Identification) Conditional (Required)
Level: 3
Usage: Conditional (Required)
Max Use: 9
Purpose: A segment to specify dates and times related to the location.
Notes: **It is recommended to specify date and time in location's local time.**

Example(s):

```
DTM+133:201312312359:203'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C507**		**DATE/TIME/PERIOD**	**M**	**1**
			Date and/or time, or period relevant to the specified date/time/period type.		
M		**2005**	**Date or time or period function code qualifier**	**M**	**an..3**
			Code qualifying the function of a date, time or period.		
			132 *Transport means arrival date time, estimated*		
			133 *Transport means departure date/time, estimated*		
			136 *Transport means departure date time, actual*		
			178 *Transport means arrival date time, actual*		
O		**2380**	**Date or time or period text**	**C**	**an..35**
			The value of a date, a date and time, a time or of a period in a specified representation.		
O		**2379**	**Date or time or period format code**	**C**	**an..3**
			Code specifying the representation of a date, time or period.		
			Use of codes specifying time with time zone (205, 303) need to be bilaterally agreed between partners.		
			102 *CCYYMMDD*		
			203 *CCYYMMDDHHMM*		
			205 *CCYYMMDDHHMMZHHMM*		
			303 *CCYYMMDDHHMMZZZ*		

Segment: **UNS** **Section Control**
Position: 00190
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A segment separating the header section and the detail section of the message.
Notes: **This mandatory segment must be transmitted for syntactical reason in order to avoid segment collision of LOC segments in positions 00170 and 00210.**

Example(s):

```
UNS+D' (To be transmitted in every message!)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes
M	**0081**		**SECTION IDENTIFIER**	**M 1 a1**
			A character identifying the next section in a message.	
			D *Header/detail section separation*	

Group: **LOC** **Segment Group 6: Place/Location Identification**
Position: 00200
Group:
Level: 1
Usage: Conditional (Required)
Max Use: 99999
Purpose: A group of segments providing information about a stowage location and the cargo related to this location.
Notes: **Per stowage location this group should be transmitted once only.**

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00210	LOC	Place/Location Identification	M	1	
D	00220	FTX	Free Text	C	9	
D	00230	RFF	Reference	C	9	
	00240		Segment Group 7: Equipment Details	C		9
M	00520	CNT	Control Total	M	1	

Segment: **LOC** **Place/Location Identification**
Position: 00210 (Trigger Segment)
Group: Segment Group 6 (Place/Location Identification) Conditional (Required)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment to identify a stowage location.
Notes: **Keyword(s):**

stowage location, tier numbers

Example(s):

```
LOC+147+0010082:9711:5' (bay 001, center row, first tier on
deck in case less than 10 tiers allowed)
LOC+147+0351072:9711:5' (bay 035, row 10, first tier on
deck in case 10 or more tiers allowed)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**3227**		**LOCATION FUNCTION CODE QUALIFIER** Code identifying the function of a location. *147* *Transport means stowage location*	**M**	**1**	**an..3**
M	**C517**		**LOCATION IDENTIFICATION** Identification of a location by code. **Stowage location:** **- For container vessel cell-grid positions shall be identified according to ISO 9711.** **- For RoRo and other vessel identify positions as assigned by carrier.**	**M**	**1**	
M		**3225**	**Location identifier** To identify a location. **Container vessel stowage locations must be transmitted by exactly 7 digits in format BBBRRTT. The SMDG recommendation on tier numbering is to be applied for vessels allowing 10 or more tiers on deck.** **In case the bay-, row-, tier number does not match the format BBB, RR or TT leading zero(s) are to be prepended.** **- C517.1131=9711, C517.3055=5** **For RoRo-vessel prepend a 2-digit deck number in form DDBBBRRTT (exactly 9 digits).** **- C517.1131=STOLOC, C517.3055=87** *BBBRRTT* *bay-row-tier cell grid position as defined by ISO 9711* *DDBBBRRTT* *deck-bay-row-tier position as defined by carrier*	**M**		**an..35**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list. **9711 - identifies codes according to ISO 9711** *9711* *stowage location according to ISO 9711 - Information related to freight containers on board vessels* *STOLOC* *stowage location identification as assigned by carrier*	**C**		**an..17**
R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. *5* *ISO (International Organization for Standardization)* *87* *Assigned by carrier*	**C**		**an..3**
O		**3224**	**Location name** Name of the location.	**C**		**an..256**

X	**C519**		**RELATED LOCATION ONE IDENTIFICATION** Identification the first related location by code or name.	**C**	**1**	
X		**3223**	**First related location identifier** To identify a first related location.	**C**		**an..35**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
X		**3222**	**First related location name** Name of first related location.	**C**		**an..70**
X	**C553**		**RELATED LOCATION TWO IDENTIFICATION** Identification of second related location by code or name.	**C**	**1**	
X		**3233**	**Second related location identifier** To identify a second related location.	**C**		**an..35**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
X		**3232**	**Second related location name** Name of the second related location.	**C**		**an..70**
X	**5479**		**RELATION CODE** Code specifying a relation.	**C**	**1**	**an..3**

Segment: **FTX** **Free Text**
Position: 00220
Group: Segment Group 6 (Place/Location Identification) Conditional (Required)
Level: 2
Usage: Conditional (Dependent)
Max Use: 9
Purpose: A segment to transmit additional information related to a stowage location.
Notes: **Dependency (semantic):**
Segment is required if the stowage location is blocked. Use to specify the reason for blocking.

Do not use this segment for specification of information related to cargo and related equipment. Transmit such information within EQD group 7.
Keyword(s):
blocked stowage position, lost slot
Example(s):

```
FTX+AGW++LOST:BLOCKING:306' (lost slot)
FTX+AGW++RESRVD:BLOCKING:306+KRPUS' (reserved for loading
in KRPUS)
FTX+AGW++CONTAM:BLOCKING:306+CLEANED IN SGSIN'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**4451**		**TEXT SUBJECT CODE QUALIFIER**	**M**	**1**	**an..3**
			Code qualifying the subject of the text.			
			AGW *Location*			
X	**4453**		**FREE TEXT FUNCTION CODE**	**C**	**1**	**an..3**
			Code specifying the function of free text.			
R	**C107**		**TEXT REFERENCE**	**C**	**1**	
			Machine processible code			
M		**4441**	**Free text description code**	**M**		**an..17**
			Code specifying information			
			ACCESS *Stowage location blocked in order to allow access to equipment in adjacent stowage location*			
			CONTAM *Stowage location is contaminated*			
			DAMAGE *Damaged cell guide or stacking cone(s)*			
			LOST *Blocked by oversized cargo in adjacent stowage position*			
			RESRVD *Stowage location reserved for stowage in subsequent port*			
R		**1131**	**Code list identification code**	**C**		**an..17**
			Code identifying code list.			
			BLOCKING *SMDG code list for stowage location blocking*			
R		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list.			
			306 *SMDG (Ship-planning Message Design Group)*			
O	**C108**		**TEXT LITERAL**	**C**	**1**	
			Free text; one to five lines for additional human information			
M		**4440**	**Free text**	**M**		**an..512**
			Free form text.			
O		**4440**	**Free text**	**C**		**an..512**
			Free form text.			

O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
X	**3453**		**LANGUAGE NAME CODE** Code specifying the language name.	**C**	**1**	**an..3**
X	**4447**		**FREE TEXT FORMAT CODE** Code specifying the format of free text.	**C**	**1**	**an..3**

Segment: **RFF** **Reference**
Position: 00230
Group: Segment Group 6 (Place/Location Identification) Conditional (Required)
Level: 2
Usage: Conditional (Dependent)
Max Use: 9
Purpose: A segment containing references to cargo or equipment related to another stowage location.
Notes: **Dependency:**
Required if stowage location is blocked due to equipment in other position.

Used to specify identification of equipment blocking this stowage location.
Keyword(s):
lost slot
Example(s):

```
RFF+EQ:HLXU2686910'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C506**		**REFERENCE**	**M**	**1**
			Identification of a reference.		
M		**1153**	**Reference code qualifier**	**M**	**an..3**
			Code qualifying a reference.		
			EQ *Equipment number*		
R		**1154**	**Reference identifier**	**C**	**an..70**
			Specify related equipment identification as specified in EQD-segment's C237.8260.		
			Equipment or breakbulk identification as defined in segment EQD data element C237.8260.		
X		**1156**	**Document line identifier**	**C**	**an..6**
			To identify a line of a document.		
X		**1056**	**Version identifier**	**C**	**an..9**
			To identify a version.		
X		**1060**	**Revision identifier**	**C**	**an..6**
			To identify a revision.		

Group: **EQD** **Segment Group 7: Equipment Details**
Position: 00240
Group: Segment Group 6 (Place/Location Identification) Conditional (Required)
Level: 2
Usage: Conditional (Dependent)
Max Use: 9
Purpose: A group of segments containing information about the type of equipment.
Notes: **Dependency (semantic):**
Required if the stowage location contains equipment.

Instances of this group are used for containerized cargo as well as for un-containerized cargo (breakbulk) or on-board equipment.
If loaded/discharged by separate moves breakbulk and supporting equipment are described in separate instances of this group.

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00250	EQD	Equipment Details	M	1	
D	00260	NAD	Name and Address	C	9	
R	00270	MEA	Measurements	C	9	
O	00280	HAN	Handling Instructions	C	99	
O	00290	DIM	Dimensions	C	9	
D	00300	RFF	Reference	C	9	
O	00310	GDS	Nature of Cargo	C	99	
O	00320	FTX	Free Text	C	9	
	00330		Segment Group 8: Place/Location Identification	C		9
	00370		Segment Group 9: Temperature	C		9
	00410		Segment Group 10: Attached Equipment	C		9
	00440		Segment Group 11: Dangerous Goods	C		999

Segment: **EQD** **Equipment Details**
Position: 00250 (Trigger Segment)
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment to identify a unit of equipment or uncontainerised cargo.
Notes: **Use to identify any unit of cargo or equipment which requires a separate load/discharge move or remains permanently on board. This can be:**
- containers (full or empty)
- un-containerized equipment (breakbulk)
- equipment supporting breakbulk (flats, platforms)
- other equipment used to fix cargo
- bundles of empty equipment
- on-board equipment, e.g. power-blocks, landside power-connection, etc

Keyword(s):
containerized equipment, breakbulk, on-board equipment

Example(s):

```
EQD+CN+SUDU1234569:6346:5+42G1:6346:5+++4' (empty 40' container of type 42G1)
EQD+CN+TBN12:TBN+42G1:6346:5+++4' (empty 40'container of type 42G1, ID not known yet)
EQD+BB+NLRTM00002:BBID' (breakbulk with breakbulk id)
EQD+BL+NLRTM00003:BBID' (equipment used to fix breakbulk identified by NLRTM00003)
EQD+CN+NONE987:CNID+22%%:6346+++5' (container not certified by ISO, 20'/8'6', full )
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**8053**		**EQUIPMENT TYPE CODE QUALIFIER**	**M**	**1**	**an..3**
			Code qualifying a type of equipment.			
			Use BL for any kind of extra equipment used for fixing cargo (breakbulk).			
			BB *Breakbulk*			
			BL *Blocks*			
			CH *Chassis*			
			CN *Container*			
			DPL *On-board equipment*			
			TE *Trailer*			
R	**C237**		**EQUIPMENT IDENTIFICATION**	**C**	**1**	
			Marks (letters/numbers) identifying equipment or breakbulk.			
R		**8260**	**Equipment identifier**	**C**		**an..17**
			To identify equipment.			
			For ISO-certified containerized equipment specify equipment's standard identification marking which consists of 4-letter prefix, 6-digit registration number and check-digit as defined by ISO 6346. **- C237.1131=6346, C237.3055=5** **In case equipment's identification is not (yet) known, transmit this field as TBNx - where "x" stands for a unique number for each unit of equipment on board.** **- C237.1131=TBN, omit C237.3055**			

			In case of containers whose identification does not comply with ISO 6346 (mostly shipper's owned containers) apply SMDG Recommendation #2 (http://www.smdg.org/documents/smdg-recommendations/) **- C237.1131=CNID, omit C237.3055** **For breakbulk and equipment used for fixing breakbulk specify unique breakbulk identifier consisting of UN-locode of port of loading and a 5-digit reference number. Example: "DEHAM00001"** **- C237.1131=BBID, omit C237.3055** **Every piece of equipment on board shall have a unique identifier.**		
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list. *6346* *container identification according to ISO 6346 - Freight containers - Coding, identification, marking* *BBID* *breakbulk identification* *CNID* *container identification not compliant with ISO 6346* *TBN* *identification not known yet*	**C**	**an..17**
D		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. **Dependency (semantic):** **- Required in case of identification according to ISO 6346.** **- Leave empty in any other case.** *5* *ISO (International Organization for Standardization)*	**C**	**an..3**
X		**3207**	**Country identifier** Identification of the name of the country or other geographical entity as defined in ISO 3166-1 and UN/ECE Recommendation 3.	**C**	**an..3**
D	**C224**		**EQUIPMENT SIZE AND TYPE** Code identifying size and type of equipment. **Dependency:** **Required for containers and supporting equipment.** **Not used in case of breakbulk and equipment used to fix breakbulk.** **Optional for on-board equipment.**	**C**	**1**
R		**8155**	**Equipment size and type description code** Code specifying the size and type of equipment. **For containerized equipment always use a 4-digt size type code according to ISO 6346.** **In case actual dimensions are not sufficiently specified by ISO size type code the use of additional DIM segments with according qualifier is required. Do not use data element 8154 for this purpose.** **At minimum the leading 2 digits specifying equipment's length and height are required. In case the complete size and type code is not known the digits 3 and 4 specifying "detailed type code" may be set to "%".** **For example:** **22%% - some type of container with length 20 ft and height 8'6** **L5%% - some type of container with length 45 ft and height 9'6** **Fully specified equipment:** **- C224.1131=6346, C224.3055=5** **otherwise:** **- C224.1131=6346, omit C224.3055**	**C**	**an..17**
D		**1131**	**Code list identification code**	**C**	**an..17**

			Code identifying a user or association maintained code list.			
			Dependency: **required if C224.3055 is specified**			
			6346 *size and type according to ISO 6346 - Freight containers - Coding, identification and marking*			
D		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list.			
			Dependency (semantic): **required in case of full size type specification**			
			5 *ISO (International Organization for Standardization)*			
X		**8154**	**Equipment size and type description**	**C**		**an..35**
			Additional information of actual height			
X	**8077**		**EQUIPMENT SUPPLIER CODE**	**C**	**1**	**an..3**
			Code specifying the party that is the supplier of the equipment.			
X	**8249**		**EQUIPMENT STATUS CODE**	**C**	**1**	**an..3**
			Code specifying the status of equipment.			
D	**8169**		**FULL OR EMPTY INDICATOR CODE**	**C**	**1**	**an..3**
			Code indicating whether an object is full or empty.			
			Dependency (semantic): **Required for containers and supporting equipment**			
			4 *Empty*			
			5 *Full*			
X	**4233**		**MARKING INSTRUCTIONS CODE**	**C**	**1**	**an..3**
			Code specifying instructions for marking.			

Segment: **NAD** **Name and Address**
Position: 00260
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Dependent)
Max Use: 9
Purpose: A segment identify parties related to a unit of equipment or uncontainerised cargo including the operator.
Notes: **Dependency (semantic):**
Required for all types of equipment except for on-board equipment.

Transmission for function "container operator" (3035 = CF) is always required. If equipment's operator is different from the slot owner in a vessel sharing agreement (VSA), a second NAD segment with 3035 = GF is required. (Further explanation is given in below chapter on Special User Guidelines.)
Keyword(s):
container operator, booking party, vessel sharing agreement, slot owner

Example(s):

```
NAD+CF+OOL:LINES:306' (container operator OOL)
NAD+GF+NYK:LINES:306' (slot owner NYK)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**3035**		**PARTY FUNCTION CODE QUALIFIER**	**M**	**1**	**an..3**
			Code giving specific meaning to a party.			
			CF - container operator (booking party), may be different than slot owner (VSA partner) **GF - slot owner, partner in vessel sharing agreement (VSA)**			
			CF *Container operator/lessee*			
			GF *Slot charter party*			
R	**C082**		**PARTY IDENTIFICATION DETAILS**	**C**	**1**	
			Identification of a transaction party by code.			
M		**3039**	**Party identifier**	**M**		**an..35**
			Code specifying the identity of a party.			
R		**1131**	**Code list identification code**	**C**		**an..17**
			Code identifying a user or association maintained code list.			
			LINES *SMDG code list for master liner codes*			
R		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list.			
			306 *SMDG (Ship-planning Message Design Group)*			
X	**C058**		**NAME AND ADDRESS**	**C**	**1**	
			Unstructured name and address: one to five lines.			
X		**3124**	**Name and address description**	**M**		**an..35**
			Free form description of a name and address line.			
X		**3124**	**Name and address description**	**C**		**an..35**
			Free form description of a name and address line.			
X		**3124**	**Name and address description**	**C**		**an..35**
			Free form description of a name and address line.			
X		**3124**	**Name and address description**	**C**		**an..35**
			Free form description of a name and address line.			

X		**3124**	**Name and address description** Free form description of a name and address line.	**C**		**an..35**
X	**C080**		**PARTY NAME** Identification of a transaction party by name, one to five lines. Party name may be formatted.	**C**	**1**	
X		**3036**	**Party name** Name of a party.	**M**		**an..70**
X		**3036**	**Party name** Name of a party.	**C**		**an..70**
X		**3036**	**Party name** Name of a party.	**C**		**an..70**
X		**3036**	**Party name** Name of a party.	**C**		**an..70**
X		**3036**	**Party name** Name of a party.	**C**		**an..70**
X		**3045**	**Party name format code** Code specifying the representation of a party name.	**C**		**an..3**
X	**C059**		**STREET** Street address and/or PO Box number in a structured address: one to four lines.	**C**	**1**	
X		**3042**	**Street and number or post office box identifier** To identify a street and number and/or Post Office box number.	**M**		**an..35**
X		**3042**	**Street and number or post office box identifier** To identify a street and number and/or Post Office box number.	**C**		**an..35**
X		**3042**	**Street and number or post office box identifier** To identify a street and number and/or Post Office box number.	**C**		**an..35**
X		**3042**	**Street and number or post office box identifier** To identify a street and number and/or Post Office box number.	**C**		**an..35**
X	**3164**		**CITY NAME** Name of a city.	**C**	**1**	**an..35**
X	**C819**		**COUNTRY SUBDIVISION DETAILS** To specify a country subdivision, such as state, canton, county, prefecture.	**C**	**1**	
X		**3229**	**Country subdivision identifier** To identify a country subdivision, such as state, canton, county, prefecture.	**C**		**an..9**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
X		**3228**	**Country subdivision name** Name of a country subdivision, such as state, canton, county, prefecture.	**C**		**an..70**
X	**3251**		**POSTAL IDENTIFICATION CODE** Code specifying the postal zone or address.	**C**	**1**	**an..17**
X	**3207**		**COUNTRY IDENTIFIER** Identification of the name of the country or other geographical entity as defined in ISO 3166-1 and UN/ECE Recommendation 3.	**C**	**1**	**an..3**

Segment: **MEA** **Measurements**
Position: 00270
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Required)
Max Use: 9
Purpose: A segment to specify weight or other measurements related to a unit of equipment or uncontainerised cargo.
Notes: **Required for specification of equipment's weight.**
Required for specification of equipment's maximum allowable stacking weight in case it is less than 192t.
Used for breakbulk's vertical center of gravity and details of atmosphere controlled containers.
Keyword(s):
weight (mass), container: max. allowable stacking weight, atmosphere control, breakbulk, VCG
Example(s):

```
MEA+AAE+AET+KGM:23780' (container gross weight -
verification undefined, including equipment and cargo)
MEA+AAE+VGM+KGM:23780' (container gross weight, verified
according to SOLAS
MEA+AAE+T+KGM:2900' (tare weight)
MEA+AAE+BRK:12+KGM:80000' (container's certified maximum
allowable stacking weight 80t)
MEA+AAE+BRK:5+KGM:60000' (reduced maximum allowable
stacking weight, presumed 60t at least)
MEA+AAE+VCG+CMT:345' (breakbulk's vertical center of
gravity)
MEA+AAE+AAS+MQH:20' (air flow 20 cubic meters per hour)
MEA+AAE+ZO+P1:12' (atmosphere 12% oxygen)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**6311**		**MEASUREMENT PURPOSE CODE QUALIFIER**	**M**	**1**	**an..3**
			Code qualifying the purpose of the measurement.			
			AAE *Measurement*			
R	**C502**		**MEASUREMENT DETAILS**	**C**	**1**	
			Identification of measurement type.			
R		**6313**	**Measured attribute code**	**C**		**an..3**
			Code specifying the attribute measured.			
			note: **Code VGM has been introduced in directory D.15B.**			
			AAO *Humidity*			
			AAS *Air flow*			
			AET *Transport equipment gross weight*			
			BRJ *Vertical center of gravity*			
			BRK *Maximum allowable transport stacking weight*			
			BRL *Carbon Dioxide*			
			T *Tare weight*			
			VGM *Transport equipment verified gross mass (weight)*			
			ZO *Oxygen*			
D		**6321**	**Measurement significance code**	**C**		**an..3**

			Code specifying the significance of a measurement.			
			dependency: **To be used if C502.6313 = BRK**			
			5 *Greater than or equal to* *6* *Greater than* *12* *True value*			
X		**6155**	**Non-discrete measurement name code** Code specifying the name of a non-discrete measurement.	**C**		**an..17**
X		**6154**	**Non-discrete measurement name** Name of a non-discrete measurement.	**C**		**an..70**
R	**C174**		**VALUE/RANGE** Measurement value.	**C**	**1**	
M		**6411**	**Measurement unit code** Code specifying the unit of measurement.	**M**		**an..8**
			Codes defined by UN/CEFACT recommendation 20. *CMT* *centimeters* *KGM* *kilogram* *MQH* *cubic meter per hour* *P1* *percent (%, proportion equal to 0.01)*			
R		**6314**	**Measure** To specify the value of a measurement.	**C**		**an..18**
			For VCG specify height above breakbulk's bottom layer.			
O		**6162**	**Range minimum quantity** To specify the minimum value of a range.	**C**		**n..18**
O		**6152**	**Range maximum quantity** To specify the maximum value of a range.	**C**		**n..18**
O		**6432**	**Significant digits quantity** Count of the number of significant digits.	**C**		**n..2**
X	**7383**		**SURFACE OR LAYER CODE** Code specifying the surface or layer of an object.	**C**	**1**	**an..3**

Segment: **HAN** **Handling Instructions**
Position: 00280
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Optional)
Max Use: 99
Purpose: A segment to specify requirements for the stowage and handling of a unit of equipment or uncontainerised cargo.
Notes: **Keyword(s):**

stowage requirements, separation, ventilation settings

Example(s):

```
HAN+OND:HANDLING:306' (coded requirement: on-deck stowage)
HAN+ZZZ:HANDLING:306:FRESH WATER ACCESS' (using SMDG code
for free text handling requirement)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
R	**C524**		**HANDLING INSTRUCTIONS**	**C**	**1**	
			Instruction for the handling of goods, products or articles in shipment, storage etc.			
R		**4079**	**Handling instruction description code**	**C**		**an..3**
			Code specifying a handling instruction.			
			Do NOT use codes defined in UN/CEFACT directory! Always use code from SMDG's code list HANDLING.			
			Refer to D.13B Data Element Dictionary for acceptable code values.			
R		**1131**	**Code list identification code**	**C**		**an..17**
			Code identifying a user or association maintained code list.			
			HANDLING *SMDG code list for handling instructions*			
R		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list.			
			306 *SMDG (Ship-planning Message Design Group)*			
O		**4078**	**Handling instruction description**	**C**		**an..512**
			Free form description of a handling instruction.			
X	**C218**		**HAZARDOUS MATERIAL**	**C**	**1**	
			To specify a hazardous material.			
X		**7419**	**Hazardous material category name code**	**C**		**an..7**
			Code specifying a kind of hazard for a material.			
X		**1131**	**Code list identification code**	**C**		**an..17**
			Code identifying a user or association maintained code list.			
X		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list.			
X		**7418**	**Hazardous material category name**	**C**		**an..35**
			Name of a kind of hazard for a material.			

Segment: **DIM** **Dimensions**
Position: 00290
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Optional)
Max Use: 9
Purpose: A segment to specify off-standard dimensions of a unit of equipment or the dimensions of uncontainerised cargo.
Notes: **Keyword(s):**

breakbulk, bundles, floor height, off-standard equipment

Example(s):

```
DIM+1+CMT:828:220:232' (gross dimensions of breakbulk)
DIM+8+MMT::600' (over-width left 600 mm)
DIM+10+CMT:701' (length 701 cm is different than indicated
by size type code)
DIM+13+CMT:::28' (over-height 28 cm)
DIM+17+MMT:::2592' (height of bundle 2592 mm)
DIM+19+MMT:::370' (height of flat rack with collapsed end-
walls 370 mm)
DIM+20+MMT:::3220' (height of superrack extended to 3320
mm)
DIM+21+MMT:::648' (floor height of flat rack 648 mm)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes
M	**6145**		**DIMENSION TYPE CODE QUALIFIER** Code qualifying the type of the dimension. **Use code "1" for breakbulk gross dimensions** **Use codes "5" to "8" and "13" for out-of-gauge dimensions of standard equipment.** **Other codes are to be used for additional specifications of containerized equipment and bundles.** *1* *Gross dimensions* *5* *Off-standard dimension front* *6* *Off-standard dimension back* *7* *Off-standard dimension right* *8* *Off-standard dimension left* *10* *External equipment dimension* *13* *Off-standard dimensions height* *17* *Bundled equipment total height* *18* *Equipment off-standard dimension height, actual* *19* *Folded equipment height* *20* *Adjustable equipment height* *21* *Equipment floor height* *22* *Container off-standard dimension width at corner posts* *23* *Container off-standard dimension width of body*	**M 1 an..3**
M	**C211**		**DIMENSIONS** Specification of the dimensions of a transportable unit.	**M 1**
M		**6411**	**Measurement unit code** Code specifying the unit of measurement.	**M an..8**

		CMT	*centimeters*		
		MMT	*millimeters*		
O	**6168**	**Length measure**		**C**	**n..15**
		To specify the value of a length dimension.			
O	**6140**	**Width measure**		**C**	**n..15**
		To specify the value of a width dimension.			
O	**6008**	**Height measure**		**C**	**n..15**
		To specify the value of a height dimension.			

Segment: **RFF** **Reference**
Position: 00300
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Dependent)
Max Use: 9
Purpose: A segment to specify a reference to a stowage location or any other reference related to a unit of equipment or uncontainerised cargo such as a booking reference or transport documents.
Notes: **Dependency:**
Required for:
a) supporting equipment: reference to ID of breakbulk supported
b) breakbulk: reference to stowage locations supporting breakbulk's mass
c) multiple not bundled equipment in stowage location: sequence

Optionally use for transmission of equipment's or carrier's booking number or other references.

Use multiple segments if breakbulk distributes over multiple stowage locations or if multiple units of breakbulk are stored in the same location.

Keyword(s):
breakbulk, multiple equipment in stowage location

Example(s):

```
RFF+EQ:SGSIN00002' (supporting equipment: id of supported
breakbulk unit)
RFF+AWN:0200888' (breakbulk: stowage location supporting
breakbulk's mass)
RFF+SQ:1' (bottommost of flats in stowage position)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C506**		**REFERENCE**	**M**	**1**
			Identification of a reference to breakbulk supported by equipment or another stowage position supporting total mass of a piece of breakbulk..		
M		**1153**	**Reference code qualifier**	**M**	**an..3**
			Code qualifying a reference. **AWN - refer to stowage location supporting breakbulk's mass** **BN - container operator's reference (booking number)** **CN - carrier's reference number** **EQ - refer to ID of breakbulk stowed on equipment** **SQ - specify equipment's vertical sequence within same stowage location** **Booking reference numbers:** **Always transmit BN. Transmit CN in addition if current carrier is different than container operator (e.g. during feeder transport).** *ALF* *Authorization number for exception to dangerous goods regulations* *AWN* *Connected location* *BN* *Consignment identifier, carrier assigned* *CN* *Carrier's reference number* *EQ* *Equipment number* *SQ* *Equipment sequence number*		
R		**1154**	**Reference identifier**	**C**	**an..70**

		Identifies a reference. **- with 1153=AWN: stowage position in format BBBRRTT** **- with 1153=BN/CN: booking number as assigned by operator/carrier** **- with 1153=EQ: equipment identification as in segment EQD data element C237.8260** **- with 1153=SQ: equipment's sequence number (1 = bottommost)**		
X	**1156**	**Document line identifier** To identify a line of a document.	**C**	**an..6**
X	**1056**	**Version identifier** To identify a version.	**C**	**an..9**
X	**1060**	**Revision identifier** To identify a revision.	**C**	**an..6**

Segment: **GDS** **Nature of Cargo**
Position: 00310
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Optional)
Max Use: 99
Purpose: A segment to identify or otherwise describe the goods carried in a unit of equipment or uncontainerised cargo.
Notes: **Keyword(s):**
commodity
Example(s):

```
GDS+57:HS:1' (carpets)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
R	**C703**		**NATURE OF CARGO**	**C**	**1**
			Rough classification of a type of cargo by Harmonized System Code (HSC)		
M		**7085**	**Cargo type classification code**	**M**	**an..3**
			First 2 digits of HS Code		
			reference: http://www.foreign-trade.com/reference/hscode.htm		
R		**1131**	**Code list identification code**	**C**	**an..17**
			Code identifying a user or association maintained code list.		
			HS *Harmonized system*		
R		**3055**	**Code list responsible agency code**	**C**	**an..3**
			Code specifying the agency responsible for a code list.		
			1 *CCC (Customs Co-operation Council)*		

Segment: **FTX** **Free Text**
Position: 00320
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Optional)
Max Use: 9
Purpose: A segment to transmit additional information related to a unit of equipment or uncontainerised cargo.
Notes: **Use for supplementary information about a unit of equipment.**

The segment might be used with qualifier AAY for transmission of documentation about verified gross mass. (see chapter Use Cases)

Do not use this segment for handling instructions. Use HAN segment in position 00280 for that purpose.

Example(s):

```
FTX+AGK+++RACING YACHT'

FTX+AAY++DRF:VGM:306+201606211600UTC:PARTY HOLDING
DOCs:CONTACT ADDR:DOCUMENT-ID'
FTX+AAY++SM1:VGM:306+201606211600UTC:CWC LTD, PO BOX 987,
CITY,?+1526888999:JOHN SMITH:JOHN SMITH:US'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**4451**		**TEXT SUBJECT CODE QUALIFIER**	**M**	**1**	**an..3**
			Code qualifying the subject of the text.			
			for other qualifiers than AAY refer to directory D.13B			
			AAY *Certification statements*			
X	**4453**		**FREE TEXT FUNCTION CODE**	**C**	**1**	**an..3**
			Code specifying the function of free text.			
O	**C107**		**TEXT REFERENCE**	**C**	**1**	
			Coded reference to a standard text and its source.			
			In case supplementary information is transmitted in coded form code list identification in C107.1131 and C107.3055 is required.			
M		**4441**	**Free text description code**	**M**		**an..17**
			Code specifying free form text.			
			Codes to be used in case DE4451 = "VGM"			
			DRF *C108 specifies reference to documentation of gross mass verification*			
			SHP *C108 specifies documentation about SOLAS shipper*			
			SM1 *C108 specifies documentation according SOLAS method 1*			
			SM2 *C108 specifies documentation according SOLAS method 2*			
R		**1131**	**Code list identification code**	**C**		**an..17**
			Code identifying code list			
			VGM *Code list for SOLAS verified gross mass*			
R		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list.			
			306 *SMDG (Ship-planning Message Design Group)*			
O	**C108**		**TEXT LITERAL**	**C**	**1**	

			Free text; one to five lines.for additional human information **In case of DE4451 = AAY the usage composite C108's data elements 4440.1 .. 4440.5 for each code in C107.4441 is described in chapter 5.11.2 of the MIG.**			
M		**4440**	**Free text** Free form text.	**M**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
X	**3453**		**LANGUAGE NAME CODE** Code specifying the language name.	**C**	**1**	**an..3**
X	**4447**		**FREE TEXT FORMAT CODE** Code specifying the format of free text.	**C**	**1**	**an..3**

Group: **LOC** **Segment Group 8: Place/Location Identification**
Position: 00330
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group of segments specifying geographical locations related to a unit of equipment or uncontainerised cargo and processing requirements related to this location.

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00340	LOC	Place/Location Identification	M	1	
O	00350	TSR	Transport Service Requirements	C	1	
O	00360	TDT	Transport Information	C	1	

Segment: **LOC** **Place/Location Identification**
Position: 00340 (Trigger Segment)
Group: Segment Group 8 (Place/Location Identification) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 1
Purpose: A segment to identify a geographical location related to a unit of equipment or uncontainerised cargo.
Notes: **Ports/terminals and other locations on route of transportation.**

Example(s):

```
LOC+11+JPNGO' (place of discharge JPNGO)
LOC+11+JPNGO+WHT2C:TERMINALS:306' (place of discharge terminal WHTC2 in JPNGO)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**3227**		**LOCATION FUNCTION CODE QUALIFIER** Code identifying the function of a location. *9* *Place of loading* *11* *Place of discharge* *64* *First optional place of discharge* *65* *Final port or place of discharge* *68* *Second optional place of discharge* *70* *Third optional place of discharge* *76* *Original port of loading* *83* *Place of delivery (by on carriage)* *97* *Optional place of discharge* *198* *Original location*	**M**	**1**	**an..3**
R	**C517**		**LOCATION IDENTIFICATION** Identification of a location by code or name.	**C**	**1**	
R		**3225**	**Location identifier** To identify a location. **Always use UN/locodes as defined by http://www.unece.org/cefact/locode/service/location.html**	**C**		**an..35**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
O		**3224**	**Location name** Name of the location.	**C**		**an..256**
D	**C519**		**RELATED LOCATION ONE IDENTIFICATION** Identification the first related location by code or name. **Dependency (semantic):** **Required if multiple terminals are called in the port specified by C517.3225.**	**C**	**1**	
R		**3223**	**First related location identifier** To identify a first related location.	**C**		**an..35**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list. *TERMINALS* *SMDG code list for terminal facilities*	**C**		**an..17**

R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. *306 SMDG (Ship-planning Message Design Group)*	**C**		**an..3**
O		**3222**	**First related location name** Name of first related location.	**C**		**an..70**
X	**C553**		**RELATED LOCATION TWO IDENTIFICATION** Identification of second related location by code or name.	**C**	**1**	
X		**3233**	**Second related location identifier** To identify a second related location.	**C**		**an..35**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
X		**3232**	**Second related location name** Name of the second related location.	**C**		**an..70**
X	**5479**		**RELATION CODE** Code specifying a relation.	**C**	**1**	**an..3**

Segment: **TSR** **Transport Service Requirements**
Position: 00350
Group: Segment Group 8 (Place/Location Identification) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 1
Purpose: A segment to specify transport service requirements such as priority or transshipment services.
Notes: **Keyword(s):**
blockstow, discharge priority
Example(s):
`TSR+++2:PRI:ZZZ'`

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
X	**C536**		**CONTRACT AND CARRIAGE CONDITION** To identify a contract and carriage condition.	**C**	**1**	
X		**4065**	**Contract and carriage condition code** Code to identify the conditions of contract and carriage.	**M**		**an..3**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
X	**C233**		**SERVICE** To identify a service (which may constitute an additional component to a basic contract).	**C**	**1**	
X		**7273**	**Service requirement code** Code specifying a service requirement.	**M**		**an..3**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
X		**7273**	**Service requirement code** Code specifying a service requirement.	**C**		**an..3**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
O	**C537**		**TRANSPORT PRIORITY** To indicate the priority of requested transport service. **Keyword(s)::** *Usage of C537.1131 and C537.3055 is required in order to make clear that the meaning of codes in C537.4219 is different than defined in directory's code list.*	**C**	**1**	
M		**4219**	**Transport service priority code** Code specifying the priority of a transport service. **Numeric code, lower number specifies higher priority, "1" = highest priority.**	**M**		**an..3**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**

			PRI *Priority*			
R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. *ZZZ* *Mutually defined*	**C**		**an..3**
X	**C703**		**NATURE OF CARGO** Rough classification of a type of cargo.	**C**	**1**	
X		**7085**	**Cargo type classification code** Code specifying the classification of a type of cargo.	**M**		**an..3**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**

Segment: **TDT** **Transport Information**
Position: 00360
Group: Segment Group 8 (Place/Location Identification) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 1
Purpose: A segment to specify information regarding a related transport stage such as mode of transport, means of transport, its conveyance reference number and the identification of the means of transport.
Notes: **Use to specify the means of transport by which equipment will leave the discharge terminal.**
Keyword(s):
on-carriage
Example(s):

```
TDT+30++2' (next mode of transport is rail)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**8051**		**TRANSPORT STAGE CODE QUALIFIER** Code qualifying a specific stage of transport. *30* *On-carriage transport*	**M**	**1**	**an..3**
O	**8028**		**MEANS OF TRANSPORT JOURNEY IDENTIFIER** To identify a journey of a means of transport.	**C**	**1**	**an..17**
R	**C220**		**MODE OF TRANSPORT** Method of transport code or name. Code preferred.	**C**	**1**	
R		**8067**	**Transport mode name code** Code specifying the name of a mode of transport. **Codes from UN/ECE recommendation 19** *1* *Maritime transport* *2* *Rail* *3* *Road* *8* *Inland water transport*	**C**		**an..3**
O		**8066**	**Transport mode name** Name of a mode of transport.	**C**		**an..17**
O	**C001**		**TRANSPORT MEANS** Code and/or name identifying the type of means of transport. **In case a Transport means Identification is transmitted by code, the usage of data elements C001.1131 and C001.3055 is highly recommended.**	**C**	**1**	
O		**8179**	**Transport means description code** Code specifying the means of transport.	**C**		**an..8**
D		**1131**	**Code list identification code** Code identifying a user or association maintained code list. **Dependency:** **Required if C001.8179 is used**	**C**		**an..17**
O		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**		**an..3**
O		**8178**	**Transport means description** Free form description of the means of transport.	**C**		**an..17**

O	**C040**		**CARRIER** Identification of a carrier by code and/or by name. Code preferred.	**C**	**1**	
			In case Carrier Identification is transmitted by code, the usage of data elements C040.1131 and C040.3055 is highly recommended.			
O		**3127**	**Carrier identifier** To identify a carrier.	**C**		**an..17**
D		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
			Dependency: **Required if C040.3127 is used**			
O		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**		**an..3**
O		**3126**	**Carrier name** Name of a carrier.	**C**		**an..35**
X	**8101**		**TRANSIT DIRECTION INDICATOR CODE** Code specifying the direction of transport.	**C**	**1**	**an..3**
O	**C401**		**EXCESS TRANSPORTATION INFORMATION** To provide details of reason for, and responsibility for, use of transportation other than normally utilized.	**C**	**1**	
M		**8457**	**Excess transportation reason code** Code specifying the reason for excess transportation. Refer to D.13B Data Element Dictionary for acceptable code values.	**M**		**an..3**
M		**8459**	**Excess transportation responsibility code** Code specifying the responsibility for excess transportation. Refer to D.13B Data Element Dictionary for acceptable code values.	**M**		**an..3**
O		**7130**	**Customer shipment authorisation identifier** To identify the authorisation to ship issued by the customer.	**C**		**an..17**
O	**C222**		**TRANSPORT IDENTIFICATION** Code and/or name identifying the means of transport.	**C**	**1**	
			In case a Transport Identification is transmitted by code, the usage of data elements C222.1131 and C222.3055 is highly recommended.			
O		**8213**	**Transport means identification name identifier** Identifies the name of the transport means.	**C**		**an..35**
D		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
			Dependency: **Required if C222.8213 is used**			
O		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**		**an..3**
O		**8212**	**Transport means identification name** Name identifying a means of transport.	**C**		**an..70**
O		**8453**	**Transport means nationality code** Code specifying the nationality of a means of transport.	**C**		**an..3**
O	**8281**		**TRANSPORT MEANS OWNERSHIP INDICATOR CODE** Code indicating the ownership of a means of transport. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**	**1**	**an..3**

Group: **TMP** **Segment Group 9: Temperature**
Position: 00370
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group of segments containing information about required temperature control.
Notes: **Multiple instances might be used in case temperature requirements vary dependent on time.**

Note:
Presence of this group indicates that equipment is connected to a power plug.

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00380	TMP	Temperature	M	1	
O	00390	RNG	Range Details	C	1	
D	00400	DTM	Date/Time/Period	C	1	

Segment: **TMP** **Temperature**
Position: 00380 (Trigger Segment)
Group: Segment Group 9 (Temperature) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 1
Purpose: A segment to specify a type of temperature control setting and optionally a specific temperature for a unit of equipment or uncontainerised cargo.

Notes: **Keyword(s):**
temperature setting
Example(s):
`TMP+2' (no temperature setting defined, e.g. only range defined)`
`TMP+2+-2.5:CEL' (setting -2.5 degree Celsius)`

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**6245**		**TEMPERATURE TYPE CODE QUALIFIER** Code qualifying the type of a temperature. *2 Transport temperature*	**M**	**1**	**an..3**
D	**C239**		**TEMPERATURE SETTING** The temperature under which the goods are (to be) stored or shipped. **Dependency:** **This composite may be omitted if** **1. only a temperature range is defined** **2. temperature setting is not known** **Furthermore, in case of time-dependent temperature control (multiple instances of group 9) it is advised to transmit the first instance without this composite. (Avoid misinterpretation if receiver cannot process time-dependent settings.)** **Transmission of setting -999 CEL indicates an unknown temperature setting for equipment which is connected to power plug.**	**C**	**1**	
R		**6246**	**Temperature degree** To specify the value of a temperature. **Negative values are preceded by a '-' sign. Values without precedence of a decimal mark indicate positive values. (Transmission of a preceding '+' sign is optional.)** **Decimal mark:** **- Always use decimal point '.' as decimal mark.** **- There must always be at least one digit before and after the decimal mark.** **Triad separators are not allowed.** **Examples for allowed usage:** **1, -1, +1, 1.0, -1.0, +1.0 (note: '+' to transmitted as '?+')** **Examples not allowed:**	**C**		**n..15**

		.5 -> missing digit before decimal mark, transmit 0.5 **-9. ->missing digit after decimal mark, transmit -9 or -9.0** **0,5 -> bad decimal mark, transmit 0.5** **1,000.0 -> using triad separator, transmit 1000.0**		
R	**6411**	**Measurement unit code** Code specifying the unit of measurement. *CEL* *Degree Celsius* *FAH* *Degree Fahrenheit*	**C**	**an..8**

Segment: **RNG** **Range Details**
Position: 00390
Group: Segment Group 9 (Temperature) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 1
Purpose: A segment to specify the required temperature range.
Notes: **Keyword(s):**
temperature range
Example(s):
RNG+5+CEL:4-24:-21' (range, minimum -24 degree Celsius, maximum -21 degree Celsius)

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**6167**		**RANGE TYPE CODE QUALIFIER**	**M**	**1**	**an..3**
			Code qualifying a type of range.			
			5 *Temperature range*			
R	**C280**		**RANGE**	**C**	**1**	
			Range minimum and maximum limits.			
M		**6411**	**Measurement unit code**	**M**		**an..8**
			Code specifying the unit of measurement.			
			CEL *Degree Celsius*			
			FAH *Degree Fahrenheit*			
O		**6162**	**Range minimum quantity**	**C**		**n..18**
			To specify the minimum value of a range.			
			apply remarks given for C239.6246 in TMP pos 380			
O		**6152**	**Range maximum quantity**	**C**		**n..18**
			To specify the maximum value of a range.			
			apply remarks given for C239.6246 in TMP pos 380			

Segment: **DTM** **Date/Time/Period**
Position: 00400
Group: Segment Group 9 (Temperature) Conditional (Optional)
Level: 4
Usage: Conditional (Dependent)
Max Use: 1
Purpose: A segment to specify a date/time related to the required temperature control.
Notes: **Dependency:**
Required in second and any further instance of TMP group. (Time dependent temperature control)
Keyword(s):
time dependent temperature control
Example(s):

```
DTM+194+201309141200:203'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C507**		**DATE/TIME/PERIOD**	**M**	**1**
			Date and/or time, or period relevant to the specified date/time/period type.		
M		**2005**	**Date or time or period function code qualifier**	**M**	**an..3**
			Code qualifying the function of a date, time or period.		
			194 *Start date/time*		
R		**2380**	**Date or time or period text**	**C**	**an..35**
			The value of a date, a date and time, a time or of a period in a specified representation.		
R		**2379**	**Date or time or period format code**	**C**	**an..3**
			Code specifying the representation of a date, time or period.		
			203 *CCYYMMDDHHMM*		
			303 *CCYYMMDDHHMMZZZ*		

Group: **EQA** **Segment Group 10: Attached Equipment**
Position: 00410
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group of segments providing information about attached transport equipment including the operator.
Notes: **This group of segments is to be used for**
- bundles: specification of units attached to leading unit.
- other equipment connected to leading equipment, e.g. reefer generator

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00420	EQA	Attached Equipment	M	1	
O	00430	NAD	Name and Address	C	1	

Segment: **EQA** **Attached Equipment**
Position: 00420 (Trigger Segment)
Group: Segment Group 10 (Attached Equipment) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 1
Purpose: A segment to specify attached transport equipment.
Notes: **Keyword(s):**
bundles
Example(s):
```
EQA+CN+HLXU1234569:6346:5' (id of flat rack firmly attached
another unit specified in pos. 00250)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**8053**		**EQUIPMENT TYPE CODE QUALIFIER**	**M**	**1**	**an..3**
			Code qualifying a type of equipment. *CH* *Chassis* *CN* *Container* *RG* *Reefer generator*			
R	**C237**		**EQUIPMENT IDENTIFICATION**	**C**	**1**	
			Marks (letters/numbers) identifying equipment.			
R		**8260**	**Equipment identifier**	**C**		**an..17**
			To identify equipment. **In case of bundled flat racks transmit identification code according to ISO 6346.** **- C237.1131=6346, C237.3055=5** **For other kinds of attached equipment transmit marking as visible on the attached unit.** **- C237.1131=EQID, omit C237.3055**			
R		**1131**	**Code list identification code**	**C**		**an..17**
			Code identifying a user or association maintained code list. *6346* *container identification according to ISO 6346 - Freight Containers - Coding, identification and marking* *EQID* *identification by marking visible on equipment*			
D		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list. **Dependency (semantic):** **Required for identification according to ISO 6346.** *5* *ISO (International Organization for Standardization)*			
X		**3207**	**Country identifier**	**C**		**an..3**
			Identification of the name of the country or other geographical entity as defined in ISO 3166-1 and UN/ECE Recommendation 3.			

Segment: **NAD** **Name and Address**
Position: 00430
Group: Segment Group 10 (Attached Equipment) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 1
Purpose: A segment to specify the operator of the attached transport equipment.
Notes: **Keyword(s):**
bundles, container operator
Example(s):

```
NAD+CF+MOL:LINES:306'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**3035**		**PARTY FUNCTION CODE QUALIFIER** Code giving specific meaning to a party. *CF* *Container operator/lessee*	**M**	**1**	**an..3**
R	**C082**		**PARTY IDENTIFICATION DETAILS** Identification of a transaction party by code.	**C**	**1**	
M		**3039**	**Party identifier** Code specifying the identity of a party.	**M**		**an..35**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list. *LINES* *SMDG code list for master liner codes*	**C**		**an..17**
R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. *306* *SMDG (Ship-planning Message Design Group)*	**C**		**an..3**
X	**C058**		**NAME AND ADDRESS** Unstructured name and address: one to five lines.	**C**	**1**	
X		**3124**	**Name and address description** Free form description of a name and address line.	**M**		**an..35**
X		**3124**	**Name and address description** Free form description of a name and address line.	**C**		**an..35**
X		**3124**	**Name and address description** Free form description of a name and address line.	**C**		**an..35**
X		**3124**	**Name and address description** Free form description of a name and address line.	**C**		**an..35**
X		**3124**	**Name and address description** Free form description of a name and address line.	**C**		**an..35**
X	**C080**		**PARTY NAME** Identification of a transaction party by name, one to five lines. Party name may be formatted.	**C**	**1**	
X		**3036**	**Party name** Name of a party.	**M**		**an..70**
X		**3036**	**Party name** Name of a party.	**C**		**an..70**
X		**3036**	**Party name** Name of a party.	**C**		**an..70**

X		**3036**	**Party name** Name of a party.	**C**		**an..70**
X		**3036**	**Party name** Name of a party.	**C**		**an..70**
X		**3045**	**Party name format code** Code specifying the representation of a party name.	**C**		**an..3**
X	**C059**		**STREET** Street address and/or PO Box number in a structured address: one to four lines.	**C**	**1**	
X		**3042**	**Street and number or post office box identifier** To identify a street and number and/or Post Office box number.	**M**		**an..35**
X		**3042**	**Street and number or post office box identifier** To identify a street and number and/or Post Office box number.	**C**		**an..35**
X		**3042**	**Street and number or post office box identifier** To identify a street and number and/or Post Office box number.	**C**		**an..35**
X		**3042**	**Street and number or post office box identifier** To identify a street and number and/or Post Office box number.	**C**		**an..35**
X	**3164**		**CITY NAME** Name of a city.	**C**	**1**	**an..35**
X	**C819**		**COUNTRY SUBDIVISION DETAILS** To specify a country subdivision, such as state, canton, county, prefecture.	**C**	**1**	
X		**3229**	**Country subdivision identifier** To identify a country subdivision, such as state, canton, county, prefecture.	**C**		**an..9**
X		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
X		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list.	**C**		**an..3**
X		**3228**	**Country subdivision name** Name of a country subdivision, such as state, canton, county, prefecture.	**C**		**an..70**
X	**3251**		**POSTAL IDENTIFICATION CODE** Code specifying the postal zone or address.	**C**	**1**	**an..17**
X	**3207**		**COUNTRY IDENTIFIER** Identification of the name of the country or other geographical entity as defined in ISO 3166-1 and UN/ECE Recommendation 3.	**C**	**1**	**an..3**

Group: **DGS** **Segment Group 11: Dangerous Goods**
Position: 00440
Group: Segment Group 7 (Equipment Details) Conditional (Dependent)
Level: 3
Usage: Conditional (Optional)
Max Use: 999
Purpose: A group of segments providing dangerous goods information related to a unit of equipment or uncontainerised cargo including official hazard identification and emergency contact information.

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00450	DGS	Dangerous Goods	M	1	
O	00460	ATT	Attribute	C	9	
O	00470	MEA	Measurements	C	9	
O	00480	FTX	Free Text	C	9	
	00490		Segment Group 12: Contact Information	C		9

Segment: **DGS** **Dangerous Goods**
Position: 00450 (Trigger Segment)
Group: Segment Group 11 (Dangerous Goods) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 1
Purpose: A segment to provide dangerous goods information including all information sufficient to provide official identification of this hazard.
Notes: **Keyword(s):**
dangerous goods
Example(s):

```
DGS+IMD+2.1::35-10+1954+055:CEL+1+F-E,S-E'
DGS+CFR+COMB:NA+1993++3'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
R	**8273**		**DANGEROUS GOODS REGULATIONS CODE** Code specifying a dangerous goods regulation. **Some authorities may require hazard to be identified other than IMDG code.** **E.g. "combustible liquids" -> CFR49 in US/Canada (http://www.ecfr.gov)** *CFR* *US, 49 Code of federal regulations* *IMD* *IMO IMDG code*	**C**	**1**	**an..3**
R	**C205**		**HAZARD CODE** The identification of the dangerous goods in code. (DG class)	**C**	**1**	
M		**8351**	**Hazard identification code** Code identifying a hazard. DG class. **in case 8273=IMD** **codes as specified in chapter 2 of IMDG code** **in case 8273=CFR** **code "COMB" for combustible liquids**	**M**		**an..7**
D		**8078**	**Additional hazard classification identifier** To identify an additional hazard classification. **Dependency:** **required if 8273=CFR, not used otherwise** **Use to specify leading 2 letters "NA" of 6-digit "Identification number". The remaining 4-digit numerical part of identification number (UN-number) is to be specified in C234.7124.**	**C**		**an..7**
R		**8092**	**Hazard code version identifier** To identify the version number of a hazard code. **35-10 (valid until end 2013)** **36-12 (valid begin 2013 until end 2015)**	**C**		**an..10**
R	**C234**		**UNDG INFORMATION** Information on dangerous goods, taken from the United Nations Dangerous Goods classification.	**C**	**1**	
R		**7124**	**United Nations Dangerous Goods (UNDG) identifier** The unique serial number assigned within the United Nations to substances and articles contained in a list of the dangerous goods most commonly carried. **In case 8273=CFR49 specify the 2-letter prefix in C205.8078.**	**C**		**n4**
X		**7088**	**Dangerous goods flashpoint description** To describe the flashpoint of dangerous goods.	**C**		**an..8**

			Use C223 instead			
O	**C223**		**DANGEROUS GOODS SHIPMENT FLASHPOINT**	**C**	**1**	
			Temperature at which a vapor can be ignited as per ISO 1523/73.			
R		**7106**	**Shipment flashpoint degree**	**C**		**n3**
			To specify the value of the flashpoint of a shipment.			
R		**6411**	**Measurement unit code**	**C**		**an..8**
			Code specifying the unit of measurement.			
			CEL - degree Celsius **FAH - degree Fahrenheit**			
O	**8339**		**PACKAGING DANGER LEVEL CODE**	**C**	**1**	**an..3**
			Code specifying the level of danger for which the packaging must cater.			
			Specify packing group according to IATA/IMDG/ADR/RID regulations			
			1 *Great danger* *2* *Medium danger* *3* *Minor danger*			
O	**8364**		**EMERGENCY PROCEDURE FOR SHIPS IDENTIFIER**	**C**	**1**	**an..8**
			To identify the emergency procedure number for ships transporting dangerous goods. Synonym: EMS Number.			
O	**8410**		**HAZARD MEDICAL FIRST AID GUIDE IDENTIFIER**	**C**	**1**	**an..4**
			To identify a Medical First Aid Guide (MFAG) for hazardous goods.			
X	**8126**		**TRANSPORT EMERGENCY CARD IDENTIFIER**	**C**	**1**	**an..10**
			To identify a transport emergency (TREM) card.			
X	**C235**		**HAZARD IDENTIFICATION PLACARD DETAILS**	**C**	**1**	
			These numbers appear on the hazard identification placard required on the means of transport.			
X		**8158**	**Orange hazard placard upper part identifier**	**C**		**an..4**
			To specify the identity number for the upper part of the orange hazard placard required on the means of transport.			
X		**8186**	**Orange hazard placard lower part identifier**	**C**		**an4**
			To specify the identity number for the lower part of the orange hazard placard required on the means of transport.			
D	**C236**		**DANGEROUS GOODS LABEL**	**C**	**1**	
			Markings identifying the type of hazardous goods and similar information.			
			Dependency (semantic): **Required for specification of class number(s) for subsidiary risk(s) defined by IMDG Code.**			
R		**8246**	**Dangerous goods marking identifier**	**C**		**an..4**
			To identify the marking of dangerous goods.			
			Class number of primary risk (repetition of C205.8351)			
R		**8246**	**Dangerous goods marking identifier**	**C**		**an..4**
			To identify the marking of dangerous goods.			
			Class number of subsidiary risk 1			
O		**8246**	**Dangerous goods marking identifier**	**C**		**an..4**
			To identify the marking of dangerous goods.			
			Class number of subsidiary risk 2			
O		**8246**	**Dangerous goods marking identifier**	**C**		**an..4**
			To identify the marking of dangerous goods.			
X	**8255**		**PACKING INSTRUCTION TYPE CODE**	**C**	**1**	**an..3**

			Code specifying a type of packing instruction.			
			Use DE 8339 instead			
X	**8179**		**TRANSPORT MEANS DESCRIPTION CODE**	**C**	**1**	**an..8**
			Code specifying the means of transport according to UN/ECE recommendation 28.			
X	**8211**		**HAZARDOUS CARGO TRANSPORT AUTHORISATION CODE**	**C**	**1**	**an..3**
			Code specifying the authorisation for the transportation of hazardous cargo.			
X	**C289**		**TUNNEL RESTRICTION**	**C**	**1**	
			To specify a restriction for transport through tunnels.			
X		**8461**	**Tunnel Restriction Code**	**C**		**an..6**
			A code indicating a restriction for transport through tunnels.			
X		**1131**	**Code list identification code**	**C**		**an..17**
			Code identifying a user or association maintained code list.			
X		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list.			

Segment: **ATT** **Attribute**
Position: 00460
Group: Segment Group 11 (Dangerous Goods) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 9
Purpose: A segment to specify an additional dangerous goods attribute relating to this hazard such as a UNDG extension code, the proper shipping name or others.
Notes: **Keyword(s):**

dangerous goods

Example(s):

```
ATT+26+AGR:DGATT:306+G:DGAGR:306' (aggregate state = gas)
ATT+26+BNR:DGATT:306+MEL025/ANS:BNR' (DG booking reference
= MEL025/ANS)
ATT+26+HAZ:DGATT:306+P:DGHAZ:306' (marine pollutant)
ATT+26+PSN:DGATT:306+:::ORGANIC PEROXIDE TYPE D SOLID'
(PSN)
ATT+26+QTY:DGATT:306+TLQ:DGQTY:306' (limited quantity)
ATT+26+SEG:DGATT:306+.2:IMDG:5:AMMONIUM COMPOUNDS'
(segregation group)
ATT+26+TNM:DGATT:306+:::DITHIANON' (technical name)
ATT+26+UNX:DGATT:306+0403:CVL:399' (UN-number extended
information: code 0403 from code list CVL defined by Exis
Technologies)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**9017**		**ATTRIBUTE FUNCTION CODE QUALIFIER**	**M**	**1**	**an..3**
			Code qualifying an attribute function.			
			26 *Hazard identification*			
R	**C955**		**ATTRIBUTE TYPE**	**C**	**1**	
			Identification of the type of attribute			
R		**9021**	**Attribute type description code**	**C**		**an..17**
			code specifying an attribute type			
			AGR *Aggregate state*			
			BNR *DG booking reference number*			
			HAZ *Special hazard indication*			
			PSN *Proper Shipping Name*			
			QTY *Special quantity*			
			SEG *Segregation group*			
			TNM *DG technical name*			
			UNX *UN-number extended information*			
R		**1131**	**Code list identification code**	**C**		**an..17**
			Code identifying a user or association maintained code list.			
			DGATT *SMDG code list for dangerous goods attributes*			
R		**3055**	**Code list responsible agency code**	**C**		**an..3**
			Code specifying the agency responsible for a code list.			
			306 *SMDG (Ship-planning Message Design Group)*			
X		**9020**	**Attribute type description**	**C**		**an..70**
			Free form description of an attribute type.			
R	**C956**		**ATTRIBUTE DETAIL**	**C**	**5**	

Identification of the attribute dependent on type.

D	**9019**	**Attribute description code**	**C**	**an..17**

Code specifying an attribute.

Dependency:
Required, except for C955.9021=BNR, C955.9021=PSN and C955.9021=TNM

Actual code depends on attribute type in C955.9021:

AGR - use code from SMDG code list DGAGR
- C956.1131=DGAGR, C956.3055=306

BNR - booking number as assigned by shipping line
- C956.1131=BNR, omit C956.3055

HAZ - use code from SMDG list DGHAZ
- C956.1131=DGHAZ, C956.3055=306

PSN - leave empty, use attribute description 9018
- C956.1131=PSN, omit C956.3055

QTY - use code from SMDG list DGQTY
- C956.1131=DGQTY, C956.3055=306

SEG - numerical code of segregation group as defined by IMDG Code, chapter 7.2.1.7.2
- C956.1131=IMDG, C956.3055=54

TNM - leave empty, use attribute description 9018
- C956.1131=TNM, omit C956.3055

UNX - use code from EXIS list CVL (http://www.hazcheck.com/IMDG_coded_variant_list.asp)
- C956.1131=CVL, C956.3055=399

R	**1131**	**Code list identification code**	**C**	**an..17**

Code identifying a user or association maintained code list.

BNR	*Booking number assigned by shipping line*
CVL	*EXIS code list for variants of UNDG numbers*
DGAGR	*SMDG code list for dangerous goods aggregate states*
DGHAZ	*SMDG code list for special hazard indication*
DGQTY	*SMDG code list for special quantities*
IMDG	*IMO IMDG Code*
PSN	*Proper shipping name according to IMDG Code*
TNM	*Dangerous Goods technical name*

D	**3055**	**Code list responsible agency code**	**C**	**an..3**

Code specifying the agency responsible for a code list.

Dependency:
required, except for C955.9021=BNR, C955.9021=PSN, C955.9021=TNM

54	*IMO (International Maritime Organisation)*
306	*SMDG (Ship-planning Message Design Group)*
399	*EXIS (Exis Technologies Ltd.)*

D	**9018**	**Attribute description**	**C**	**an..256**

Free form description of an attribute.

Dependency:

	- Required for attribute type = PSN, specify proper shipping name as defined by IMDG Code, chapter 3.2 **- Required for attribute type = TNM, specify DG technical name** **- Optional for attribute type = SEG, specify segregation group name as defined by IMDG Code, chapter 7.2.1.7.2**

Segment: **MEA** **Measurements**
Position: 00470
Group: Segment Group 11 (Dangerous Goods) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 9
Purpose: A segment to specify measurements related to this hazard.
Notes: **Use for transmission of quantitative information identifying a hazard such as substance's net weight, net explosive weight, radioactivity, radioactivity indexes, etc.**
Keyword(s):
dangerous goods
Example(s):

```
MEA+AAE+AAA+KGM:0.5'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name		Attributes		
M	**6311**		**MEASUREMENT PURPOSE CODE QUALIFIER**		**M**	**1**	**an..3**
			Code qualifying the purpose of the measurement.				
			AAE	*Measurement*			
R	**C502**		**MEASUREMENT DETAILS**		**C**	**1**	
			Identification of measurement type.				
R		**6313**	**Measured attribute code**		**C**		**an..3**
			Code specifying the attribute measured.				
			AAA	*Net weight*			
			AAB	*Goods item gross weight*			
			AAF	*Net net weight*			
			AEN	*Radioactive index of transport*			
			AEO	*Radioactivity*			
			AFN	*Net explosive weight*			
			AFO	*Radioactive criticality safety index*			
O		**6321**	**Measurement significance code**		**C**		**an..3**
			Code specifying the significance of a measurement.				
			Refer to D.13B Data Element Dictionary for acceptable code values.				
X		**6155**	**Non-discrete measurement name code**		**C**		**an..17**
			Code specifying the name of a non-discrete measurement.				
X		**6154**	**Non-discrete measurement name**		**C**		**an..70**
			Name of a non-discrete measurement.				
R	**C174**		**VALUE/RANGE**		**C**	**1**	
			Measurement value and relevant minimum and maximum values of the measurement range.				
			Dependency of components C174.6314/6162/6152: Either specify measure in 6314 or range in 6162/6152.				
M		**6411**	**Measurement unit code**		**M**		**an..8**
			Code specifying the unit of measurement.				
			Code list: UN/ECE Recommendation 20				
			4N	*megabecquerel*			
			BQL	*Becquerel*			
			CUR	*Curie*			
			GBQ	*gigabecquerel*			

			GRM	*gram*			
			KGM	*kilogram*			
			NMB	*number (used for Radioactive Index of Transport and Radioactive Criticality Safety Index)*			
			P1	*percent*			
			TBQ	*terabecquerel*			
			TNE	*(metric) ton*			
D		**6314**	**Measure** To specify the value of a measurement.		**C**		**an..18**
D		**6162**	**Range minimum quantity** To specify the minimum value of a range.		**C**		**n..18**
D		**6152**	**Range maximum quantity** To specify the maximum value of a range.		**C**		**n..18**
X		**6432**	**Significant digits quantity** Count of the number of significant digits.		**C**		**n..2**
X	**7383**		**SURFACE OR LAYER CODE** Code specifying the surface or layer of an object.		**C**	**1**	**an..3**

Segment: **FTX** **Free Text**
Position: 00480
Group: Segment Group 11 (Dangerous Goods) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 9
Purpose: A segment to transmit additional free text information related to this hazard.
Notes: **Use for supplementary information about a DG item which cannot be specified by other segments.**
Keyword(s):
dangerous goods
Example(s):

```
FTX+AAC++ADDITIONAL INFO'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**4451**		**TEXT SUBJECT CODE QUALIFIER** Code qualifying the subject of the text. *AAC* *Dangerous goods additional information*	**M**	**1**	**an..3**
X	**4453**		**FREE TEXT FUNCTION CODE** Code specifying the function of free text.	**C**	**1**	**an..3**
O	**C107**		**TEXT REFERENCE** Coded reference to a standard text and its source. **In case supplementary information is transmitted in coded form code list identification in C107.1131 and C107.3055 is required.**	**C**	**1**	
M		**4441**	**Free text description code** Code specifying free form text.	**M**		**an..17**
R		**1131**	**Code list identification code** Code identifying a user or association maintained code list.	**C**		**an..17**
R		**3055**	**Code list responsible agency code** Code specifying the agency responsible for a code list. Refer to D.13B Data Element Dictionary for acceptable code values.	**C**		**an..3**
O	**C108**		**TEXT LITERAL** Free text; one to five lines.	**C**	**1**	
M		**4440**	**Free text** Free form text.	**M**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
O		**4440**	**Free text** Free form text.	**C**		**an..512**
X	**3453**		**LANGUAGE NAME CODE** Code specifying the language name.	**C**	**1**	**an..3**
X	**4447**		**FREE TEXT FORMAT CODE** Code specifying the format of free text.	**C**	**1**	**an..3**

Group: **CTA** **Segment Group 12: Contact Information**
Position: 00490
Group: Segment Group 11 (Dangerous Goods) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group of segments to identify contacts and communication numbers related to this hazard.

Segment Summary

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	00500	CTA	Contact Information	M	1	
R	00510	COM	Communication Contact	C	9	

Segment: **CTA** **Contact Information**
Position: 00500 (Trigger Segment)
Group: Segment Group 12 (Contact Information) Conditional (Optional)
Level: 4
Usage: Mandatory
Max Use: 1
Purpose: A segment to identify a contact person for this hazard such as an emergency contact.
Notes: **Keyword(s):**
dangerous goods contact
Example(s):
`CTA+HG+BASF:XYZ LABS'`

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
R	**3139**		**CONTACT FUNCTION CODE** Code specifying the function of a contact (e.g. department or person). *BO* *After business hours contact* *HE* *Emergency dangerous goods contact* *HG* *Dangerous goods contact* *WI* *Alternate contact*	**C**	**1**	**an..3**
O	**C056**		**CONTACT DETAILS** Code and/or name of a contact such as a department or employee. Code preferred. **Use subsequent COM segment(s) for specification of communication details like phone number, email address, etc.**	**C**	**1**	
O		**3413**	**Contact identifier** To identify a contact, such as a department or employee.	**C**		**an..17**
O		**3412**	**Contact name** Name of a contact, such as a department or employee.	**C**		**an..256**

Segment: **COM** **Communication Contact**
Position: 00510
Group: Segment Group 12 (Contact Information) Conditional (Optional)
Level: 5
Usage: Conditional (Required)
Max Use: 9
Purpose: A segment to identify communication numbers or email addresses for the contact person for this hazard.
Notes: **Keyword(s):**
dangerous goods contact
Example(s):
`COM+DG.HELP(A)BASF.COM:EM'`

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C076**		**COMMUNICATION CONTACT**	**M**	**3**
			Communication number of a department or employee in a specified channel.		
M		**3148**	**Communication address identifier**	**M**	**an..512**
			To identify a communication address.		
			Transmit "(A)" for character "@" in e-mail addresses.		
M		**3155**	**Communication means type code**	**M**	**an..3**
			Code specifying the type of communication address.		
			AH *World Wide Web*		
			AJ *Alternate telephone*		
			AL *Cellular phone*		
			AV *Inmarsat call number*		
			EM *Electronic mail*		
			FX *Telefax*		
			MA *Mail*		
			TE *Telephone*		

Segment: **CNT** **Control Total**
Position: 00520
Group: Segment Group 6 (Place/Location Identification) Conditional (Required)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment to specify the number of units of equipment or uncontainerised cargo in a stowage location.
Notes: **This mandatory segment must be transmitted for syntactical reason in order to avoid segment collision of LOC segments in positions 00210 and 00340.**

Example(s):

```
CNT+8:1' (1 instance of group 7 for this stowage location)
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes	
M	**C270**		**CONTROL**	**M**	**1**
			Control total for checking integrity of a message or part of a message.		
			Used to transmit the total number of equipment (number of segment groups 7) transported in a stowage location.		
M		**6069**	**Control total type code qualifier**	**M**	**an..3**
			Code qualifying the type of control of hash total.		
			8 Total pieces		
M		**6066**	**Control total quantity**	**M**	**n..18**
			To specify the value of a control quantity.		
X		**6411**	**Measurement unit code**	**C**	**an..8**
			Code specifying the unit of measurement.		

Segment: **UNT** **Message Trailer**
Position: 00530
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A service segment ending a message, giving the total number of segments in the message (including the UNH & UNT) and the control reference number of the message.
Notes: **Keyword(s):**

message reference identification

Example(s):

```
UNT+789+BAPLIE ID'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**0074**		**NUMBER OF SEGMENTS IN A MESSAGE**	**M**	**1**	**n..6**
			Control count of number of segments in a message.			
M	**0062**		**MESSAGE REFERENCE NUMBER**	**M**	**1**	**an..14**
			Unique message reference assigned by the sender.			
			Same as specified in UNH.0062.			

Segment: **UNZ** **Interchange Trailer**
Position: 00535
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To end and check the completeness of an interchange
Notes: **Keyword(s):**
interchange
Example(s):

```
UNZ+1+ICHNG ID'
```

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes		
M	**0036**		**INTERCHANGE CONTROL COUNT** Count either of the number of messages or, if used, of the number of functional groups in an interchange.	**M**	**1**	**n..6**
M	**0020**		**INTERCHANGE CONTROL REFERENCE** Unique reference assigned by the sender to an interchange. **Same as specified in UNB.0020**	**M**	**1**	**an..14**

5 Special Use Cases and Examples

Use cases described in this chapter shall be implemented in the way as specified here.

5.1 Types of BAPLIE Message

By definition (see section 2.3) different *Types of BAPLIE* are to be distinguished

a) Stage: *draft* BAPLIE versus *final* BAPLIE
b) Scope: *full* BAPIE versus *partial* BAPLIE

Any combination of these scope and version is possible. BAPLIE's type needs to be identified in message's **BGM** segment.

5.1.1 Message *Stage*: Draft BAPLIE versus Final BAPLIE

Final Bayplan

The message is created after departure from the related port of call. Data in BAPLIE describe vessel's actual status at departure.

Draft Bayplan

The message is created before vessel departure from the related port of call. Data in BAPLIE describe the status as it is currently planned for departure.

5.1.2 Message *Scope*: Full BAPIE versus Partial BAPLIE

Full Bayplan

The message contains all containers on board the ship when sailing from related port of call. It includes containers for all operators and all loaded as well as transit containers.

Partial Bayplan

The message contains only a subset of the containers on board of the vessel when sailing from the related port of call. Reason for transmitting only a subset can be:

- The BAPLIE includes only containers for a single operator. Such a partial bayplan might be imposed for legal compliance.
- The BAPLIE includes only containers loaded and restowed in the related port, but not containers whose position remains unchanged (transit containers).

Type definition in BAPLIE:

Complete information of Type of BAPLIE is to be defined in the BGM segment in position 00020.

- The code specifying BAPLIE's scope is to be transmitted in C002.1001.
- In case scope is *partial*, C002.1000 shall be used to transmit a code describing the subset of information contained in the message
- The code specifying message's current stage is to be transmitted in data element 1373.

For codes specifying BAPLIE's type see description of BGM in section 4.4.

Examples

BGM+658+ID123+9++38'	*Full Bayplan (code 658), final stage(code 38)*
BGM+658+ID123+9++X39'	*Full Bayplan (code 658), draft stage (code 39)*
BGM+659:::SINGLEOP+ID123+9++X38'	*Partial Bayplan (code 659),only one operator(SINGLEOP), final stage (code 38)*

Example 5.1.2-1 Different Types of BAPLIE message

5.2 Use of codes and code lists

Edifact segments are composed by a series of *(standalone) data elements* and *composite data elements*, which again consists of a series of data elements. Data elements are defined by the UN/CEFACT directory. They are the carrier of any information transmitted by Edifact messages and are identified by a name and a 4-digit numerical value. E.g. 3227 refers to the data element named *Location function code qualifier*. The directory defines a *representation* an..3 for this data element, meaning a maximum of 3 alphanumerical characters can be transmitted in this data element.

Dependent on data element's definition its content may be a *code* or literal text. In case codes are to be transmitted they are defined either by

- a *code list* listing all allowed codes with their meaning

or

- a *precise description of format and content* of a data to be transmitted.
  Example: Codes identifying a stowage location are transmitted in format BBBRRTT for bay/row/tier as defined by ISO 9711.

5.2.1 Code lists in BAPLIE

Data elements with the same identification may occur as part of different segments or composites. For coded data above section 4.4 specifies for each data element in the given context exactly which codes are allowed for this data element:

1. If data elements code list is defined by the UN/CEFACT directory, then the codes allowed in BAPLIE are listed in column *Name*.
2. If the UN/CEFACT directory allows to make use of alternate code lists defined by **data elements 3055 and 1131** and BAPLIE uses such code lists, then these code lists are defined column *Name*.
   Non-directory code lists are defined by a *code list responsible agency (CLRA)* in data element 3055 and if the CLRA supports many lists a *code list identification code* in data element 1131.

Example:

Stowage location specified according to ISO 9711: CLRA=5=ISO, code list identification: standard 9711

LOC+147+0060094:9711:5'	*Stowage location, code according to ISO 9711*

Example 5.2.1-1 Code from non-directory code list

5.2.2 Code lists maintained by SMDG

SMDG is identified as CLRA by code 306 in data element 3055. SMDG maintains multiple code lists:

Code list	Identification code (1131)	Section
Master liner codes	**LINES**	in NAD segments
Terminal facility codes	**TERMINALS**	In LOC segments
DG attribute codes	**DGATT**	5.6.1
DG aggregate state codes	**DGAGR**	5.6.1
DG special hazard codes	**DGHAZ**	5.6.1
DG special quantity codes	**DGQTY**	5.6.1
Stowage location blocking codes	**BLOCKING**	5.3.2
Handling instruction codes	**HANDLING**	5.4.11, 5.4.12, 5.5
SOLAS verified gross mass information codes	**VGM**	5.11

These code lists may be downloaded from SMDG website http://www.smdg.org/smdg-code-lists/

5.2.3 Some general rules for using codes

Care has been taken in the design of BAPLIEv3 that almost all information to be transmitted can be specified in coded form in dedicated segments. In former BAPLIE version FTX segments have been used for transmission of important information like handling requirements, DG attributes or goods description. In version 3 dedicated segments HAN and ATT with related code lists have been introduced. For description of goods (commodity) the GDS segment in position 00310 shall be used.

The use of FTX segments in BAPLIEv3 shall be limited to

1. Specification of blocked stowage location (FTX in position 00220). In this case information is to be transmitted as code in FTX's composite C107. (see section 5.3.2)
2. Transmission of complementing information as literal text. In this case literal text is to be transmitted in FTX's composite C108.

Any handling or stowage requirements shall be transmitted by means of the **HAN** segment in position 00280.

> For data element 4079 do not use codes from the UN/CEFACT directory's code list. It is *required* to transmit only codes defined in SMDG's **HANDLING** code list.

For the case that SMDG's HANDLING list does not provide a code describing your handling requirement sufficiently do not use an FTX segment. Instead you may

a. Complement an existing code by literal text in HAN's data element C524.4078.
b. Use code ZZZ and specify the requirement as literal text in HAN's data element C524.4078.

Example:

Stowage location specified according to ISO 9711: CLRA=5=ISO, code list identification: standard 9711

HAN+STP:HANDLING:306:TIER 04'	*Insert stoppers for tier 04*
HAN+ZZZ:HANDLING:306:FRESH WATER ACCESS	*Fresh water access required*

Example 5.2.3-1 Handling codes with literal text

5.3 Stowage locations

BAPLIE messages of scope full are assumed to transmit information about all stowage locations occupied by transported equipment and about those locations which must not be used for loading cargo.

From above statement it cannot be concluded that not mentioned locations are available for loading. Usage of a vessel's stowage space is subject of stowage pre-planning by vessel operator's stowage coordination. Positions available for loading of containers are specified by vessel operator's *stowage instructions* (e.g. by Edifact message MOVINS).

5.3.1 Identification of stowage locations

BAPLIE requires stowage locations on container vessels to be identified according to ISO 9711 in format BBBRRTT (BBB = bay number, RR = row number, TT = tier number).

ISO 9711 defines tier numbers to be expressed by 2-digit numerical values and on-deck tiers to be started at "82" and rise with even numbers. This schema does not work anymore for container vessels with 10 or more tiers. In order to avoid incompatibilities between sender and receiver, the solution given by SMDG's Recommendation on Tier Numbering is to be applied for such vessels:

> **In order to avoid three digit tier numbers, IT systems supporting container vessels which allow for 10 or more tiers on deck shall start on-deck tier numbering with tier '72'. No change for existing vessels is intended.**

5.3.2 Blocked stowage locations

Beside occupied stowage locations BAPLIE allows to transmit information about blocked stowage locations. Reasons for blocking can be

- Lost slots, position blocked by oversize in another position
- Damage of cell guide
- Contamination
- Allow permanent access to equipment in another cell position
- Reservation for use in a subsequent port

The reason for blocking is specified in coded form in a FTX segment (position 00220 in segment structure). Codes are defined in SMDG's code list BLOCKING. Optional human readable text might be added in data elements 4440 of the FTX segment.

If blocking is related to other equipment on board, this equipment is identified by an RFF segment (position 230).

Example: Lost slot caused by an OOG flat rack:

...	
LOC+147+0060092:9711:5'	*Begin of stowage location flat*
EQD+CN+HLXU4691920:6346:5+45P8:6346:5+++5'	*full 9'6 flat*
NAD+CF+HLC:LINES:306'	*Booking party HLC*
MEA+AAE+AET+KGM:22300'	*gross weight*
DIM+13+CMT+::68'	*Overheight 68cmt*
LOC+9+DEHAM'	*port of loading*
LOC+12+SGSIN'	*port of discharge*
CNT+8:1'	*End of stowage location flat*
LOC+147+0060094:9711:5'	*Begin of stowage location lost slot*
FTX+AGW++LOST:BLOCKING:306'	*Reason for blocking: lost slot*
RFF+EQ:HLXU4691920'	*Reference to equipment*
CNT+8:0'	*End of stowage location lost slot*

Example 5.3.2-1 OOG with lost slot

Example: Stowage location reserved for loading in another port

...	
LOC+147+0060094:9711:5'	*Begin of blocked stowage location*
FTX+AGW++RESRVD:BLOCKING:306+BB IN KRPUS'	*Reason for blocking: reserved for breakbulk in KRPUS*
CNT+8:0'	*End of blocked stowage location*

5.3.3 Multiple units of equipment in one stowage location

A stowage location might be occupied by multiple units of containerized equipment (multiple empty platforms or folded flat racks, half high containers or bundled equipment). In this case the vertical sequence is to be transmitted by means of an RFF segment (important for examples in case of different discharge ports). To each unit of equipment a sequence number is to be assigned, starting with "1" for the bottommost unit.

Example:

Three folded flat racks in one stowage location.

...	
LOC+147+0060092:9711:5'	*Begin of stowage location*
EQD+CN+HLXU4691920:6346:5+45P8:6346:5+++4'	*First folded flat rack*
...	*More information 1st flat*
DIM+19+CMT+:::68'	*Height with collapsed end walls*
RFF+SQ+1'	*Sequence number (1=bottommost)*
LOC+12+SGSIN'	*port of discharge*
...	*More information 1st flat*
EQD+CN+HLXU4691920:6346:5+45P8:6346:5+++4'	*Second folded flat rack*
...	*More information 2nd flat*
DIM+19+CMT+:::68'	*Height with collapsed end walls*
RFF+SQ:2'	*Sequence number (on top of #1)*
LOC+12+AEJEA'	*port of discharge*
...	*More information 2nd flat*
EQD+CN+HLXU4691920:6346:5+45P8:6346:5+++4'	*Third folded flat rack*
...	*More information 3rd flat*
DIM+19+CMT+:::68'	*Height with collapsed end walls*
RFF+SQ:3'	*Sequence number (on top of #2)*
LOC+12+AEJEA'	*port of discharge*
...	*More information 3rd flat*
CNT+8:3'	*End of stowage location*

Example 5.3.3-1 Three folded flats in one position

5.4 Containerized Equipment and out-of-gauge cargo dimensions

For all equipment the ISO size type code must be given in the EQD segment. It shall always reflect the ISO size type as painted on the equipment itself.

In case of simple standard equipment where all three dimensions (length, width and height) can be derived **entirely and precisely** from this size type code, no further specification of additional dimensions is required and shall be avoided.

In any other cases, additional DIM segments shall be transmitted. Refer to the following subsections for details.

Table of DIM qualifiers

Code	Situation	Refer to section
1	Gross dimensions of breakbulk cargo	5.5
5	Out-of-gauge cargo, overlength forward	5.4.6
6	Out-of-gauge cargo, overlength aftwards	5.4.6
7	Out-of-gauge cargo, overwidth to the right side (on top of equipment body width)	5.4.6
8	Out-of-gauge cargo, overwidth to the left side (on top of equipment body width)	5.4.6
10	External equipment dimensions (if different than ISO size type)	5.4.2
13	Out-of-gauge cargo, overheight (on top of actual equipment size)	5.4.6
17	Total height of a bundle of flatracks	5.4.7
18	Fix non-standard height	5.4.4
19	Height of collapsed flatrack	5.4.4
20	Actual height of flatrack with expandable end walls	5.4.4
21	Supporting equipment floor height	5.4.4, 5.5
22	Non-standard width at corner posts	5.4.3
23	Non-standard body width of body	5.4.3

5.4.1 Standard equipment precisely described by ISO size type

Example:

`EQD+CN+SMDU1234567+22V0:6346:5++2+5'`	*ISO size type 22V0. Outer dimensions: 6058mm of length, 2438mm width and 2591mm height. No additional DIM segments needed.*
`...`	*Other attributes of container (operator, weight, POL/POD, etc)*

Example 5.4.1-1 ISO size type precisely describes dimensions

5.4.2 Non-standard length

For any equipment where the length as specified by the ISO size type does not precisely reflect the actual length of the equipment, a DIM segment with qualifier 10 shall be transmitted to specify the actual length. If width and height are according to the size-type code only the actual length is transmitted.

Example:

EQD+CN+SMDU1234567+ACT0:6346:5++2+5'	*23ft Tank container, ISO size type does not precisely reflect actual length (size code refers to length of 7150mm)*
DIM+10+CMT:701'	*Actual length of equipment*
...	

Example 5.4.2-1 Container with non-standard length

5.4.3 Non-standard width

For any equipment, where the width as specified by the ISO size type does not precisely reflect the actual width of the equipment, one or two DIM segments shall be transmitted to specify the actual width of the equipment.

Note: This affects any piece of equipment having a width other than 2438mm (having a letter instead of a numerical character as 2nd character of the ISO size type code).

Caution: There are two different cases to distinguish:

- Where width at corner posts is other than 2438mm which might affect compatibility with standard cell guide structures, code **22** must be used to specify the actual width at corner posts.
- Where width at corner posts is standard (2438mm), but the body of the equipment has some 'overwidth', a DIM segment with code **23** shall be transmitted.

When both dimensions are non-standard and width of body is equal or less than width in corner posts, one DIM segment with code **22** (width at corner posts) is sufficient.

Example:

EQD+CN+SMDU1234567+4CG1:6346:5++2+5'	*Seacell container, ISO size type 4CG1.Standard width at corner posts, fits in any cell guide.*
DIM+23+CMT::248'	*Actual width of equipment(body)*
...	

Example 5.4.3-1 Container with non-standard width at body

Example:

EQD+CN+SMDU1234567+4CG1:6346:5++2+5'	*Bulk container with overwidth in both corner postings (2460mm) and body (2460mm).*
DIM+22+CMT::246'	*Actual width of equipment (corner posts). As body width does not extend corner with, no additional DIM segment for body width required.*
...	

Example 5.4.3-2 Container with non-standard width at corner posts

5.4.4 Non-standard height

For any equipment, where the height as specified by the ISO size type does not precisely reflect the actual effective height of the equipment, a DIM segment shall be transmitted to specify the actual height of the equipment. This is necessary for a number of different cases:

- For any fixed-size equipment where the first character of the ISO size type code does not exactly specify the actual height of the equipment (e.g. equipment with a height of 6ft marked with ISO size type code 40U5, which refers to a height of 8ft). Use code **18** in this case.
- For any equipment with foldable end walls, the actual height of the equipment shall be given using code **19** when the equipment is actually folded.
- For any equipment with extendable end walls the actual height of the equipment shall be given using code **20** unless the actual height is precisely described by the ISO size type code (For this type of equipment we recommend to always specify the actual height). Note: In case of OOG cargo with overheight, the overheight refers to the actual height of equipment!
- For a bundle of flatracks, the total height of the bundle shall be specified (refer to section 0 for details).

Example:

EQD+CN+SMDU1234567+46P3:6346:5++2+5'	*Super-Rack with extendable end walls.*
DIM+20+CMT:::412'	*Actual height (end walls extended to 13,5ft)*
...	

Example 5.4.4-1 Flat rack with extended end-walls

Example:

EQD+CN+SMDU1234567+46P3:6346:5++2+5'	*Super-Rack with extendable end walls.*
DIM+19+CMT:::65'	*Actual height (end walls folded)*
...	

Example 5.4.4-2 Collapsed flat rack

5.4.5 Floor height of supporting equipment

For any flat rack or platform used as supporting equipment for break bulk, the height of the inner floor shall be specified in a DIM segment with code xx (in addition to any other DIM segment mentioned in this section).

Example:

EQD+CN+SMDU1234567+46P3:6346:5++2+5'	*Super-Rack with extendable end walls.*
...	...
DIM+20+CMT:::412'	*Actual height (end walls extended to 13,5ft)*
DIM+21+CMT:::65'	*Actual height of floor*
...	

Example 5.4.5-1 Floor height of supporting equipment

5.4.6 Out-of-gauge cargo

If cargo loaded on any piece of equipment exceeds the actual dimensions of that equipment, respective DIM segments shall be transmitted.

Any combination of over dimensions is possible.

Note: All over dimensions refer to the actual dimensions of the equipment (which might be specified by other DIM segments)!

Example:

EQD+CN+SMDU1234567+46P3:6346:5+++5'	*Super-Rack (with extendable end walls).*
DIM+20+CMT:::412'	*Actual height (end walls extended to 13,5ft)*
DIM+13+CMT:::50'	*Overheight of 50cm (Actual height of equipment + cargo is 462 cm!)*
DIM+7+CMT::15'	*Overwidth, right side: 15cm*
DIM+8+CMT::15'	*Overwidth, left side: 15cm*
...	

Example 5.4.6-1 Out-of-gauge cargo

5.4.7 Bundled equipment

Within the context of this section, a bundle refers to a set of collapsed flat racks tied together by some mechanical fixture (other than twist locks) in a way that they can be handled in port operations as a single unit.

Notes:

- The topmost flat rack in a bundle is considered the leading equipment and shall be mentioned in the EQD segment. For all other units an EQA segment shall be supplied.
- The operator of the bundle shall be mentioned in the EQD group. As an option, individual operator codes might be given for attached equipment [describe how to do]. Since the bundle is considered as one unit during port operations, this is normally ignored by terminals and shall be used on a mutually agreed base only (no example).
- Gross weight (MEA) of the bundle shall include the total weight of the bundle including the weight of each flat.
- The height (DIM) shall be given for the bundle as a whole, taking into account any spacing between bundled units that might result from the bundling mechanism.
- No specific vertical order is specified within the bundle (except to the topmost being EQD).
- The count in the CNT segment shall count bundles, not individual equipment. For multiple bundles in a single stowage position (more than one EQD, each including at least one EQA for each attached unit), the count might be greater than one.

Example:

...	
LOC+147+0260490:9711:5'	*Stowage location (same for all flats in bundle)*
EQD+CN+HLXU5551230:6346:5+45P8:6346:5+++4'	*Leading (topmost) flat rack*
NAD+CF+HLC:LINES:306'	*Operator for the bundle*
MEA+AAE+AET+KGM:6000'	*Gross weight for the bundle*
DIM+17+CMT:::195'	*Total height of bundle*
LOC+9+HKHKG'	*Port of loading*
LOC+12+NLRTM'	*Port of discharge*
TSR+++1'	*Transport Service Requirements, if any, must be specified for first equipment*
EQA+CN+HLXU5554560:6346:5'	*2nd flat in bundle*
EQA+CN+HLXU5557890:6346:5'	*3rd flat in bundle*
CNT+8:1'	*End of stowage location. Note: A bundle is considered as one unit!*

Example 5.4.7-1 Bundle of flat racks

5.4.8 Equipment without ISO identification number

Containerized equipment is usually ISO certified and has a unique identification number. However, some of the transported containers may not have such a certification and thus do not have an ISO identification number. They are often referred to as *shippers owned containers.*

If containerized equipment has no ISO identification number, its identification specified in EQD's data element C237.8260 shall preferably be transmitted as marked on equipment. In case the identification consists of numerals only and a (dummy) prefix cannot be avoided a letters **NONE** shall be prepended to the numeral. In case there is no marking, a unique sequence number prepended by **NONE** shall be transmitted. See also SMDG Recommendation #2.

Container marking	Transmitted identification
U9000122	U9000122
9000122	9000122 (recommended)
9000122	NONE9000122 (acceptable)
None	NONE001 - (sequence number = 001)

Care has to be taken that equipment's identification is unique among all equipment on board.

5.4.9 Equipment whose identification is not yet known

In case of transmitting a draft bayplan the exact identification of a container to be loaded might only be determined during are loading. But size and other attributes are already known. In such cases container's identification number in **EQD**'s **C237.8260** shall be transmitted as **TBNX**, where **X** allows for unique identification of the equipment.

Example:

A not finally determined high-cube container from Rotterdam to Singapore with (approx.) 15t weight.

...	
EQD+CN+TBN1234567:TBN+45G0:6346:5+++5'	*any full 9'6 container*
MEA+AAE+AET+KGM:15000'	*15t gross weight*
LOC+9+NLRTM'	*from Rotterdam*
LOC+11+SGSIN'	*to Singapore*
...	

Example 5.4.9-1 Container whose identification is not known yet

5.4.10 Maximum allowable stacking weight of equipment

For container operations it is often assumed containers have been certified for a maximum allowable stacking weight of at least 192 t. But this is not the case for all containers transported. Serious accidents happened when these limits have been exceeded.

BAPLIE requires specification of container's maximum allowable stacking weight if it is below 192t. In case the exact value is not known, the message sender shall specify a value on the save side best to his knowledge. Presumed values shall be indicated by a *measurement significance code* 5 (greater than or equal to) in data element C502.6321. In case the transmitted value has been approved by container certification a measurement significance code 12 (true value) should be transmitted.

Example:

Shippers owned container with reduced allowable stacking weight. The exact value is not known but is presumed to be at least 40t.

LOC+147+0260490:9711:5'	*Stowage location*
EQD+CN+XXXX551230::ZZZ+22G0:6346:5+++5'	*Equipment without ISO identification*
NAD+CF+HLC:LINES:306'	*Container operator*
MEA+AAE+AET+KGM:11000'	*Container gross weight*
MEA+AAE+BRK:5+KGM:40000'	*Maximum allowable stacking weight presumed to be 40t or higher*
...	*More details about container*

Example 5.4.10-1 Shippers owned container with reduced allowable stacking weight

In case of heavy breakbulk and/or high stacks the default maximum stacking weight of 192t might not be sufficient. In this situation it is recommended to transmit the actual stacking weight limits for containers in lower tiers.

Example:

Container certified max. allowable stacking weight of 240t in lowest tier.

LOC+147+0260400:9711:5'	*Stowage location*
EQD+CN+CSPU9000122:6346:5+45G1:6346:5+++5'	*Equipment of type 45G1*
NAD+CF+HLC:LINES:306'	*Container operator*
MEA+AAE+AET+KGM:11000'	*Container gross weight*
MEA+AAE+BRK:12+KGM:240000'	*Maximum allowable stacking weight certified to be 240t*
...	*More details about container*

Example 5.4.10-2 Container with certified max. allowable stacking of 240t in lowest tier

5.4.11 Direction of equipment

Details about direction of stow are given by means of an HAN segment. It allows to specify whether doors respectively a reefer engine is placed in forward or aft direction. Both directions may be specified. If not otherwise specified by a HAN segment, it may be assumed:

- Non-reefer containers are stowed with doors in aft direction
- Reefer containers or other containers requiring a power connection are stowed with engine in aft direction (this usually implies doors are in the opposite direction)

In addition to forward and aft define equipment's direction may also be determined by *doors accessible* or *doors not accessible*. Those latter codes shall be used if the cargo transported in the container demands the direction rather than other operational requirements.

Example:

Two 20' reefers stowed in a 40' bay.

LOC+147+0250490:9711:5'	*Begin 1st location (front of 40')*
EQD+CN+NYKU551230:6346:5+25R0:6346:5+++5'	*1st reefer container*
...	*NAD, MEA segments*
HAN+RFF:HANDLING:306'	*Reefer engine forward*
...	*More details about container*
CNT+8:1'	*End 1st location (front of 40')*
LOC+147+0270490:9711:5'	*Begin 2nd location (aft of 40')*
EQD+CN+NYKU551340:6346:5+25R0:6346:5+++5'	*2nd reefer container*
...	*NAD, MEA segments*
	Reefer engine aft not transmitted since it is the default
...	*More details about container*
CNT+8:1'	*End 2nd location (aft of 40')*

Example 5.4.11-1 Direction of two 20' reefers in 40' bay

Example:

Meaning of doors to be accessible depends on cell position.

LOC+147+0250490:9711:5'	*Begin location (front of 40' bay)*
EQD+CN+NYKU551230:6346:5+22G0:6346:5+++5'	*20' container*
...	*NAD, MEA segments*
HAN+DAC'	*Doors accessible means forward*
...	*More details about container*
CNT+8:1'	*End location (front of 40')*
LOC+147+0270490:9711:5'	*Begin location (aft of 40' bay)*
EQD+CN+NYKU587230:6346:5+22G0:6346:5+++5'	*20' container*
...	*NAD, MEA segments*
HAN+DAC'	*Doors accessible means aft*
...	*More details about container*
CNT+8:1'	*End location (aft of 40')*

Example 5.4.11-2 Doors to be accessible

Container vessels' bay layout usually defines containers' longitudinal direction to be stowed in parallel to ship's center line. However, some vessels provide stowage locations which are directed athwart to center line. This type of stowage shall explicitly be indicated in a **HAN** segment with code **ATH**.

5.4.12 Exact stowage within vessel's cell grid

Stowage of containerized equipment within the vessels 20'/40' cell grid is usually well defined and requires no further specification in BAPLIE. However, for two special cases explicit indication is cared for:

a. Lashing gap: A vessel provides a choice to stow two 20' containers in a 40' bay either longitudinally next to each other (allow to top two 20'ers by 40'ers) or to allow for lashing at front and back of each 20'. Such choice is referred to as with or without lashing gap. 2 codes **GAP** and **NGP** are provided for specification in the HAN segment.
b. Insert *stoppers* or *tween deck*: In case a container is not stored on top of below container (or directly on the usual stack foundation), but some special vertical substructure used this shall be indicated by code **STP** in the **HAN** segment. This code indicates other action has to take place before the container can loaded or after it has been discharged.

There may be more cases were detailed indication of the exact stowage of containers is appropriate. However, such situations usually occur only for special vessels or are restricted to particular services. In case transmission in form is required it is recommended to define codes in bi-lateral agreements. It is always possible to use data element 4078 in the HAN segment to transmit specifications in verbal form.

5.4.13 Containerized equipment permanently on board

Equipment qualified by **EQD+DPL** refers to containers staying permanently on board. They are carrying power blocks/generators, their tanks, shore side power connections or similar equipment, devices or tools. These containers occupy regular cell positions and may be over-stowed by cargo containers, but they are not part of normal load or discharge operations during the current voyage.

Since this type of equipment may be used as foundation for other equipment and its mass is to considered for safety calculations, it is required to transmit its ISO size type code and gross weight.

Example:

A containerized diesel generator set. No specification of booking party, port of loading/discharge.

LOC+147+0260490:9711:5'	*Begin stowage location*
EQD+DPL+XLXU8523991:6346:5+45G1:6346:5+++5'	*Equipment with ISO identification*
MEA+AAE+AET+KGM:12100	*Gross weight*
CNT+8:1'	*End stowage location*

Example 5.4.13-1 Equipment permanently on board

5.5 Breakbulk and Supporting Equipment

In context of this section the term *breakbulk* refers to un-containerized cargoes transported on containerships. In most cases breakbulk is transported together with some supporting containerized equipment (flat racks or platforms). Containerized equipment is identified by its ISO container id. Its dimensions are specified by ISO container size-type code. Each unit of breakbulk is identified by a *breakbulk reference id* made up by UN-locode of port of loading followed by a 5-digit serial number. The breakbulk reference number is required to be unique for all units on board.

Since, by definition, supporting equipment and breakbulk are loaded / discharged by separate moves, information about each unit is transmitted in a separate EQD-group. If desired a further group for lashing material may be added.

Example:

One piece of breakbulk is delivered by floating crane. For sea transport it will be supported by a single 9'6 flat rack.

...	
LOC+147+0060082:9711:5'	*Begin of stowage location* *ISO stowage location*
EQD+BB+DEHAM00001'	*Begin of breakbulk's EQD group* *piece of breakbulk Id DEHAM00001*
NAD+CF+HLC:LINES:306'	*Booking party*
MEA+AAE+AET+KGM:32300'	*Breakbulk's weight 32.3t*
HAN+DFC:HANDLING:306'	*Delivery by floating crane*
LOC+9+DEHAM'	*port of loading*
LOC+12+SGSIN'	*port of discharge* *End of flats's EQD group*
EQD+CN+HLXU4691920:6346:5+45P8:6346:5+++5'	*Begin of flat's EQD group* *9'6 flat full*
NAD+CA+HLC:LINES:306'	*Booking party*
MEA+AEE+T+KGM:5900'	*tare weight (without breakbulk)*
LOC+9+DEHAM'	*port of loading*
LOC+12+SGSIN'	*port of discharge* *End of breakbulk's EQD group*
CNT+8:2'	*Two EQD groups* *End of stowage location*

Example 5.4.13-1 Breakbulk with supporting equipment

Above example demonstrates the principle of specifying breakbulk and supporting equipment by different EQD groups within the same stowage location. Real life breakbulk examples are often more complex. Multiple pieces of breakbulk are transported on platforms built by multiple supporting equipment across multiple stacks. How such sophisticated cases can be specified is demonstrated by the second example. Two units of breakbulk are stored athwart on three platforms. The platform equipment consists of 9'6 flat racks with collapsed end-walls. Information about breakbulk's vertical center of gravity is included and it is shown how transmitted data can be used for stack-weight validation and stability calculation.

LOC+147+0100082:9711:5'	*Begin first stowage location*
EQD+BB+DEHAM00002'	*Begin first piece of breakbulk*
NAD+CF+HLC:LINES:306'	*Booking party HLC*
MEA+AAE+AET+KGM:30000'	*Weight 30t*
MEA+AAE+VCG+CMT:75'	*Breakbulk's vertical center of gravity*
DIM+1+CMT:520:705:165'	*Gross dimensions*
RFF+AWN:0100082'	*Location with supporting equipment*
RFF+AWN:0100182'	*Location with supporting equipment*
RFF+AWN:0100282'	*Location with supporting equipment*
LOC+9+DEHAM'	*Port of loading*
LOC+12+CNSHA'	*Port of discharge* *End first piece of breakbulk*
EQD+BB+DEHAM00003'	*Begin second piece of breakbulk*
NAD+CF+HLC:LINES:306'	*Booking party*
MEA+AAE+AET+KGM:30000'	*weight*
MEA+AAE+VCG+CMT:75'	*Breakbulk's vertical center of gravity*
DIM+1+CMT:520:705:165'	*Gross dimensions*
RFF+AWN:0100082'	*Location 1 with supporting equipment*
RFF+AWN:0100182'	*Location 2 with supporting equipment*
RFF+AWN:0100282'	*Location 3 with supporting equipment*
LOC+9+DEHAM'	*Port of loading*
LOC+12+CNSHA'	*Port of discharge* *End second piece of breakbulk*
EQD+BL+DEHAM00004'	*Begin lashing material*
NAD+CF+HLC:LINES:306'	*Booking party HLC*
MEA+AAE+AET+KGM:9000'	*Weight 9t*
RFF+AWN:0100082'	*Location 1 with supporting equipment*
RFF+AWN:0100182'	*Location 2 with supporting equipment*
RFF+AWN:0100282'	*Location 3 with supporting equipment*
LOC+9+DEHAM'	*Port of loading*
LOC+12+CNSHA'	*Port of discharge* *End lashing material*
EQD+CN+HLXU4691920:6346:5+45P8:6346:5+++4'	*Begin flat rack full*
NAD+CF+HLC:LINES:306'	*Booking party HLC*
MEA+AAE+T+KGM:5900'	*Weight (without breakbulk)*
DIM+21+MMT::648'	*floor height 648mm, (collapsed flat)*
RFF+SRN:DEHAM00002'	*Reference to breakbulk supported*
RFF+SRN:DEHAM00003'	*Reference to breakbulk supported*
RFF+SRN:DEHAM00004'	*Reference to lashing material*
LOC+9+DEHAM'	*Port of loading*
LOC+12+CNSHA'	*Port of discharge*

CNT+8+3'	*3 EQD groups* *End first stowage location*
LOC+147+0100082:9711:5'	*Begin second stowage location*
EQD+CN+HLXU4693760:6346:5+45P8:6346:5+++5'	*Begin flat rack, full*
NAD+CF+HLC:LINES:306'	*Booking party HLC*
MEA+AAE+T+KGM:5900'	*Weight (without breakbulk)*
DIM+21+MMT::648'	*floor height 648mm, (collapsed flat)*
RFF+SRN:DEHAM00002'	*Reference to breakbulk supported*
RFF+SRN:DEHAM00003'	*Reference to breakbulk supported*
RFF+SRN:DEHAM00004'	*Reference to lashing material*
LOC+9+DEHAM'	*Port of loading*
LOC+12+CNSHA'	*Port of discharge*
CNT+8+1'	*one EQD group* *End second stowage location*
LOC+147+0100282:9711:5'	*Begin third stowage location*
EQD+CN+HLXU4690240:6346:5+45P8:6346:5+++4'	*Begin flat rack (empty)*
NAD+CF+HLC:LINES:306'	*Booking party HLC*
MEA+AAE+T+KGM:5900'	*Weight (without breakbulk)*
DIM+21+MMT::648'	*floor height 648mm, (collapsed flat)*
RFF+SRN:DEHAM00002'	*Reference to breakbulk supported*
RFF+SRN:DEHAM00003'	*Reference to breakbulk supported*
LOC+9+DEHAM'	*Port of loading*
LOC+12+CNSHA'	*Port of discharge*
CNT+8+1'	*one EQD group* *End third stowage location*

Example 5.4.13-2 Two units of breakbulk stowed athwart on 3 flat racks

Notes on sequence of segments in above example

1. It is recommended to specify all units of breakbulk (and lashing material) with the first location occupied by the compound of cargo.
2. Each unit of breakbulk(as well as lashing material) specifies references to all stowage locations taking up its weight. There are 3 locations specified with each unit. Thus it may be assumed that each of them will take a third of its weight, i.e. 20t in above example.
3. For each piece of supporting equipment there are references to units of breakbulk (and lashing material) specified. From these references the total weight to be transported in this stowage location can be approximated. (Together with other locations' weight stack-weight limits can be validated.)
   5.9t (flat rack) + 2*20t (a third of each breakbulk unit) + 3t (a third of lashing material)
   In summary 48.9 tons per location.
4. The vertical center of gravity can be calculated from flat racks' floor height and breakbulk's VCG. For vessel's stability and stress calculation the base height of tier 82 has to be added. This height depends on vessel's construction and actual height of containers below in stack.

In above examples many attributes of breakbulk and supporting equipment are identical. Handling instructions, weight, dimensions, DG attributes, port of loading / destination, etc. may be specified individually for each unit of equipment / breakbulk.

5.6 Dangerous Goods

BAPLIE messages shall indicate all hazards arising from goods transported by a vessel. This is done as part of EQD group 7 describing containers or units of breakbulk. Since there may be multiple hazards associated with a container (unit of breakbulk), multiple DGS groups are used for specification of multiple hazards. Each instance of this group is referred to as *DG item*. The sum of all DG items related to a piece of equipment determines the requirements for equipment's stowage and segregation as a unit of transport.

5.6.1 DGS Group

With this new revision of BAPLIE care has been taken to allow for comprehensive identification of DG items according to IMDG Code. Since Edifact's DGS segment is not capable to transmit all details for comprehensive identification of DG items the DGS group has been extended by ATT and MEA segments. A CTA group for transmission of emergency contact information has also become part of the DGS group. Additional FTX segments should not be used for identification of hazards. They are provided for additional information only.

The ATT segment is meant for specification of further DG attributes which are not part of the DGS segment. It consists of a general *function qualifier* (code **26** marks the ATT segment as an attribute of a DG item) and composites for *attribute type* (C955) and *attribute detail* (C956). Segment's components are described with the ATT segment (position 00460) in section 4.4.

The attribute type is to be specified as code defined in SMDG's code list **DGATT**. Types

- aggregate state
- DG booking reference number
- special hazard indication
- proper shipping name
- special quantity
- segregation group
- DG technical name
- UN-number extended information

are distinguished.

Data about attribute detail are transmitted in composite C956. Most data are transmitted as code in data element 9019. ATT segment's reference description in section x specifies the according code lists for each type. *Proper shipping name* and *Technical name* are transmitted in data element 9018. Please note, the Edifact directory allows composite C956 to be repeated up to 5 times in each ATT segment.

It follows an example for each of the 8 different attribute types.

ATT+26+AGR:DGATT:306+S:DGAGR:306'	*Aggregate state solid*
ATT+26+BNR:DGATT:306+SYD123/ANS::ZZZ'	*Booking reference SYD123/ANS*
ATT+26+HAZ:DGATT:306+P:DGHAZ:306'	*Special hazard: MARPOL*
ATT+26+PSN:DGATT:306+:::CHLOROSULPHONIC ACID'	*Proper shipping name CHLOROSULPHONIC ACID*
ATT+26+QTY:DGATT:306+TLQ:DGQTY:306'	*Limited quantity*
ATT+26+SEG:DGATT:306+.1:IMDG:54:ACIDS'	*Segregation group: 1 - acids*
ATT+26+TNM:DGATT:306+:::SOLVENT NAPHTHA'	*Technical name solvent naphtha*
ATT+26+UNX:DGATT:306+0201:CVL:399'	*Exis code variant 0201*

Example 5.6.1-1 Use of ATT segment in DGS group

The MEA segment is meant for specification of quantitative attributes like a hazardous substance's net weight, net explosive weight, radioactivity, etc.

The FTX segment is provided for additional information which cannot be transmitted in DGS, ATT and MEA. Information should be transmitted as plain text.

A new CTA group allows for specification of multiple contact functions: general DG contact, emergency contact. The COM segment is used for contact details like phone number or email address.

Examples for specification of DG items:

tank with corrosives, including segregation group and dangerous goods contact information

EQD+CN+EURU2070080:6346:5+20T6:6346:5+++5'	
...	
DGS+IMD+8:35-10+1754++1+F-A,S-B'	*Class from IMDG 35-10:8* *UN number: 1754* *Packing group: 1* *EmS codes: F-A,S-B*
ATT+26+AGR:DGATT:306+L:DGAGR:306'	*Aggregate: liquid*
ATT+26+PSN:DGATT:306+:::CHLOROSULPHONIC ACID'	*Proper shipping name*
ATT+26+SEG:DGATT:306+.1:IMD:54:ACIDS'	*Segregation group: 1*
ATT+26+BNR:DGATT:306+2HAZHL6584::ZZZ'	*DG booking reference number*
MEA+AAE+AAA+KGM:20000'	*Net weight: 20t*
CTA+HG'	*Dangerous goods contact*
COM+?+49-172-1234567:AL	*Cellular phone*
COM+DG-DEPT(A)MYLINE.COM:EM	*E-mail address*
...	*End of DG item*

Example 5.6.1-2 DG item with segregation group and DG contact information

Paint with flashpoint, flammable vapors, limited quantity

DGS+IMD+3:35-10+1263+17.0:CEL+2+F-E,S-E'	*Class from IMDG 35-10: 3* *UN number: 1263* *Flashpoint: 17.0° CEL* *Packing group: 2* *EmS codes: F-E,S-E*
ATT+26+AGR:DGATT:306+L:DGAGR:306'	*Aggregate: liquid*
ATT+26+PSN:DGATT:306+:::PAINT'	*Proper shipping name*
ATT+26+HAZ+DGATT:306+FLVAP:DGHAZ:306	*Special haz: flammable vapor*
ATT+26+QTY:DGATT:306+TLQ:DGHAZ:306'	*Limited quantity*
ATT+26+BNR:DGATT:306+SYL054/ANS::ZZZ'	*DG booking reference number*
MEA+AAE+AAA+KGM:3'	*Net weight: 3 kgm*
...	

Example 5.6.1-3 DG item with flammable vapors

MARPOL of class 9, proper shipping name complemented by technical name

EQD+CN+ECMU2196081:6346:5+22V0:6346:5+++5'	
...	
DGS+IMD+9:35-10+3082++3+F-A,S-F'	*Class from IMDG 35-10: 9* *UN number: 3082* *Packing group: 3* *EmS codes: F-A,S-F*
ATT+26+AGR:DGATT:306+L:DGAGR:306'	*Aggregate: liquid*
ATT+26+PSN:DGATT:306+:::ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, M.O.S.'	*Proper shipping name*
ATT+26+TNM+DGATT:306+:::NEONOL	*Technical name*
ATT+26+HAZ:DGATT:306+P:DGHAZ:306'	*MARPOL*
ATT+26+BNR:DGATT:306+SYD054/ANS::ZZZ'	*DG booking reference number*
MEA+AAE+AAA+KGM:17200'	*Net weight: 17.2t*
...	*End of DG item*

Example 5.6.1-4 DG item with technical name complementing PSN

Limited quantity example, net weight specified without any packing

EQD+CN+HLXU4455530:6346:5+42G1:6346:5+++5'	
...	
DGS+IMD+3::35-10+1139+-4:CEL+2+F-E,S-E'	*Class from IMDG 35-10: 3* *UN number: 1139* *Flashpoint: -4°CEL* *Packing group: 2* *EmS codes: F-E, S-E*
ATT+26+AGR:DGATT:306+L:DGAGR:306'	*Aggregate: liquid*
ATT+26+PSN:DGATT:306+:::COATING SOLUTION'	*Proper shipping name*
ATT+26+QTY:DGATT:306+TLQ:DGQTY:306'	*Limited Quantity*
ATT+26+BNR:DGATT:306+2HAZHL6892::ZZZ'	*DG booking reference number*
MEA+AAE+AAF+KGM:2.2'	*Net net weight: 2.2 kg* *(weight without any packing)*
...	*End of DG item*

Example 5.6.1-5 DG item as limited quantity, net net weight

DG item declared according to CFR49 (required for North American ports only)

DGS+CFR+COMB:NA+1993++3'	*Class from CFR49: combustible liquid* *CFR identification number: NA1993* *Packing group: 3*
ATT+26+AGR:DGATT:306+L:DGAGR:306'	*Aggregate: liquid*
ATT+26+PSN:DGATT:306+:::COMBUSTIBLE LIQUID, N.O.S.'	*Proper shipping name*
ATT+26+BNR:DGATT:306+2HAZHL6892::ZZZ'	*DG booking reference number*
MEA+AAE+AAA+KGM:9200'	*Net weight: 9.2t*
...	

Example 5.6.1-6 DG item declared according to CFR49

Container with multiple (2) DG items;

LOC+147+0140188:9711:5‘	*Begin of stowage location*
EQD+CN+SUDU5502021:6346:5+45G0:6346:5‘	*Begin container*
...	
DGS+IMD+2.2:35-10+3164+++F-C,S-V'	*First DG item:* *Class from IMDG 35-10: 2.2* *UN number: 3164* *Packing group: none* *EmS codes: F-C,S-V*
ATT+26+AGR:DGATT:306+G:DGAGR:306’	*Aggregate: gas*
ATT+26+PSN:DGATT:306+:IMD:54:ARTICLES,PRESSURIZED, PNEUMATC'	*Proper shipping name*
ATT+26+BNR:DGATT:306+2MANAE1256::ZZZ’	*DG booking reference number*
MEA+AAE+AAA+KGM:170’	*Net weight: 170 kg*
DGS+IMD+9:35-10+3268++3+F-B,S-X'	*Second DG item:* *Class from IMDG 35-10: 9* *UN number: 3268* *Packing group: 3* *EmS codes: F-B,S-X*
ATT+26+AGR:DGATT:306+S:DGAGR:306’	*Aggregate: solid*
ATT+26+BNR:DGATT:306+2MANAE1256::ZZZ’	*DG booking reference number*
MEA+AAE+AAA+KGM:1.8’	*Net weight: 1.8 kg*
CNT+8:1	*End of stowage location*

Example 5.6.1-7 Multiple DG items in a container

5.7 Temperature and Atmosphere control

With introduction of *time dependent temperature control* information of temperature control is transmitted in TMP group 9. This makes it necessary to transmit a TMP segment even if only a temperature range is to be transmitted (see Example 5.7.1-2: Temperature range below).

5.7.1 Time-dependent temperature control

For temperature settings or ranges a date/time may be specified defining the start of a period from when they are valid. For this purpose a DTM segment is used. Different points in time are transmitted by separate instances of TMP group 9.

It is not required that each message recipient can process time-dependent temperature control. Thus it is permissible to skip the second and further instances of TMP group 9. In this case data in the first instance of the group shall be processed as default setting/range.

Examples:

Only temperature setting -1.5 degree Celsius to be transmitted.

`...`	
`LOC+11+DEHAM:16:6'`	*Port of discharge*
`TMP+2+-1.5:CEL'`	*Setting: -1.5 degree Celsius*
`...`	*Optionally more non-temperature details about equipment*
`CNT+8:1'`	*End of stowage location*

Example 5.7.1-1 Temperature setting

Only temperature range to be transmitted.

`...`	
`LOC+11+DEHAM:16:6'`	*Port of discharge*
`TMP+2'`	*Setting: none*
`RNG+5+CEL:-10:-5'`	*Range: -10 .. -5 degree Celsius*
`...`	*Optionally more non-temperature details about equipment*
`CNT+8:1'`	*End of stowage location*

Example 5.7.1-2: Temperature range

Time dependent settings. Different settings valid from 21.Oct., 28. Oct., 4.Nov.

...	
LOC+11+DEHAM:16:6'	*Port of discharge*
TMP+2+-5:CEL'	*Default setting: -5 degree*
TMP+2+-5:CEL'	*Setting: -5 degree …*
DTM+194+201310211200:203'	*… applicable from 21.Oct.2013*
TMP+2+-1:CEL'	*Setting: -1 degree …*
DTM+194+201310281200:203'	*… applicable from 28.Oct.2013*
TMP+2+3:CEL'	*Setting: 3 degree …*
DTM+194+201311041200:203'	*… applicable from 04.Nov.2013*
...	*Optionally more non-temperature details about equipment*
CNT+8:1'	*End of stowage location*

Example 5.7.1-3: Time-dependent temperature settings

5.7.2 Container with controlled atmosphere

Some containers are equipped with machinery for control of container's internal atmosphere. Usually air flow, humidity, as well as degree of oxygen and carbon dioxide are to be controlled.

Example:

...	
EQD+CN+HLXU870123:6346:5+45R9:6346:5+++5'	*Reefer container*
NAD+CF+HLC:LINES:306'	*Default setting: -5 degree*
MEA+AAE+AET+KGM:18700'	*Gross weight*
MEA+AAE+AAO+P1:20'	*Humidity: 20%*
MEA+AAE+AAS+MQH:20'	*Air flow: 20 m^3/h*
MEA+AAE+ZO+P1:20'	*Oxygen: 20%*
MEA+AAE+ZC2+P1:10'	*Carbon dioxide: 10%*
...	*more details about container including temperature settings*

Please note, ventilation settings for containers with passive vents shall not be specified using a MEA segment. Use the HAN segment with codes for ventilation settings instead.

5.8 Usage of the term "Operator"

The term "Operator" can refer to the operator of a vessel or the operator of a single container. BAPLIE can transmit one party as Vessel Operator plus two different parties as Container Operator.

5.8.1 Vessel Operator

The vessel operator is the owner or the charterer of the vessel. He is responsible for maritime operation of the vessel. He negotiates berth availability with the terminals. His ship planner performs stowage planning for the whole vessel.
In a consortium of carriers with a Vessel Sharing Agreement (VSA) the Vessel Operator is normally one of the VSA partners who have a space allocation on the vessel.

Vessel Operator in BAPLIE message: Composite C040 of the TDT segment in position 00130 is used to specify the vessel operator. In every message it is required to specify its code in C040.3127. Use of 3-letter codes from SMDG's "Master Liner Code List" is recommended. (C040.1131=**LINES**, C040.3055=306). For examples see below.

5.8.2 Container Level

a) *Booking Party (Container Operator)*
The Booking party has knowledge of the customer, container routing and the cargo in the container. Mostly the Booking Party is identical with the Slot Owner.
If the two parties are not identical then the Container Operator has bought a certain number of slots (shipping space) from one of the VSA Partners or from the consortia. He uses these slots for his own container bookings.

b) *Slot Owner (VSA Partner)*
The Vessel Sharing Agreement (VSA) Partners share the shipping space on a vessel. Each VSA partner can use a pre-defined space allocation on the vessel as per joint agreement.
The VSA Partner may use his space allocation for his own container bookings, or he may sub-let a part of his allocation to one or more Slot Charterers.
Only in case the VSA Partner uses the space for his own container bookings he has knowledge of the container routing, the cargo in the container and of the customer. In this case the VSA Partner is identical with the Booking Party.

Container Operator in BAPLIE:

NAD+CF = Booking Party (Container Operator) Required information for each container in BAPLIE. **NAD+GF = Slot Owner (VSA Partner)** Required if Slot Owner differs from Booking Party, optional otherwise.

The container operator's function is qualified by data element 3035 of the NAD segment in position 00260.

- **CF** qualifies function as Booking Party (Container Operator)
- **GF** qualifies it as Slot Owner (VSA Partner)

The operating party is identified by data element C082.3039. Use 3-letter codes from "Master Liner Code List" published by SMDG. (C082.1131=**LINES**, C082.3055=306)

Examples:

Vessel Operator, VSA partner and Booking Party are different lines.

TDT+20+VOY123+++HLC:LINES:306+++9337274::11:SOFIA SCHULTE'	*HLC is Vessel Operator*
...	
LOC+147+0011010:9711:5'	*start of stowage location*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container equipment*
NAD+CF+ANL:LINES:306'	*ANL is the booking party*
NAD+GF+CMA:LINES:306'	*CMA is the VSA partner*
MEA+AAE+AET+KGM:18700'	*gross weight*
...	*more details about container*

Example 5.8.2-1 Vessel operator, booking party and VSA partner are all different

VSA partner and Booking Partner are identical, Vessel Operator is different.

TDT+20+VOY123+++CMA:LINES:306+++9315886::11:CMA CGM ROSE'	*CMA is Vessel Operator*
...	
LOC+147+0011010:9711:5'	*start of stowage location*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container equipment*
NAD+CF+HLC:LINES:306'	*HLC is booking party and VSA partner*
MEA+AAE+AET+KGM:18700'	*gross weight*
...	*more details about container*

Example 5.8.2-2 Booking party and VSA partner are identical

5.9 Booking Reference

Both the **Vessel Operator resp. Slot Owner** and the **Container Operator** may use their individual reference to identify a container in their IT system. The BAPLIE can transmit two reference numbers accordingly for each single container:

- The reference number of the Slot Owner (VSA Partner).
  This is the party described in the NAD+GF segment, if available. If there are no VSA Partners then this party is the vessel operator as described in the TDT segment.

- The reference number of the Booking Party (Container Operator), typically the booking number.
  This is the party described in the NAD+CF segment.

Reference Numbers in BAPLIE message:
RFF segment / Pos. 00300 / Data element C506.1153 with following qualifiers:

- 'CN' = Reference number of the Slot Owner (VSA Partner), this can also be the vessel operator.
- 'BN' = Booking number of the Booking Party (Slot Charterer).

Example:
Vessel Operator is Unifeeder (UFE), Slot Owner (VSA Partner) is Evergreen (EMC) and Booking Party HLC. All of these operator functions are conducted by different lines!

TDT+20+VOY123+++UFE:LINES:306+++9234989::11:AURORA'	*Unifeeder is Vessel Operator*
...	
LOC+147+0011010::5'	*start of position*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container*
NAD+CF+HLC:LINES:306'	*HLC is booking party*
NAD+GF+EMC:LINES:306'	*EMC is slot owner*
RFF+CN:32BSF1298-11'	*Slot Owner's reference*
RFF+BN:2HELQV99821/33'	*Booking party's reference*
MEA+AAE+AET+KGM:18700'	*gross weight*
...	*more details about container*

Example 5.8.2-1 Booking reference when vessel operator, booking party, and slot owner are different

5.10 Block Stow: Discharge *Priorities* and *On-carriage* information

The term *discharge priority* usually applies to a block of containers which require common handling at port of discharge. Guidelines are given in the context of *block stow*.

In contrast to discharge priority, the term *priority discharge* is commonly used as an attribute for a single container. In BAPLIE priority discharge is to be indicated as a handling instruction (**HAN** segment in position 00280).

Block Stow

Containers on board a vessel that are destined to some particular port of discharge can be grouped into blocks which have the same requirements for order and planning of discharge operations.

Potential business reasons for block stow are:

- Enable containers to be discharged such that they can be loaded on a certain train/vessel. Block stow makes is useful in case of long discharge times and where the train/vessel leaves during discharge already.
- Operational requirements in the POD to handle a large number of import containers for the connecting mode of transport.

Each block is identified by a numeric priority code (discharge priority). A lower number means the block is to be handled with higher priority.

Discharge operations can also be supported by already defining the means of transport (rail, road, maritime, inland waterways) by which the equipment is leaving the discharge terminal (next stage of *on-carriage*). Optionally details about carrying party, vessel identification, voyage number etc. can be added.

In BAPLIE message

- A blocks priority code is transmitted in C537 of TSR segment in position 00350.
  C537.4219 contains an up to 3 digit numeric code.
  C537.3055 shall contain 306.
- On-carriage information is transmitted in segment TDT in position 00360.
  Required are qualifier 8051 and C220.8067 for mode of transport in coded form. For specification of additional on-carriage information (e.g. carrier, id of means of transport, voyage number) see TDT segment's description in section 4.4 (position 00360).

Examples

A container from block stow to Vancouver, to be discharged with highest priority

LOC+147+0011010::5'	*start of stowage location*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container equipment*
...	*some details about container*
LOC+11+CAVAN'	*CAVAN is place of discharge*
TSR+++1::306'	*Highest priority*
LOC+83+CACAL'	*CACAL is final delivery*
...	*more details about container*

Example 5.8.2-1 Block stow

Container to be discharge in Vancouver with priority 2, its on-carriage is by rail.

LOC+147+0011010::5'	*start of stowage location*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container equipment*
...	*some details about container*
LOC+11+CAVAN'	*CAVAN is place of discharge*
TSR+++2::306'	*Priority 2*
TDT+30++2'	*On-carriage by rail*
LOC+83+CACAL'	*CACAL is final delivery*
...	*more details about container*

Example 5.8.2-2 Block stow with on-carriage by rail

A container discharged in Vancouver and to be transshipped to sea going vessel, no priority specified.

LOC+147+0011010::5'	*start of stowage location*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container equipment*
...	*some details about container*
LOC+11+CAVAN'	*CAVAN is place of discharge*
TDT+30+VOY123+1++CMA:LINES:306+++9315886::11:CMA CGM ROSE'	*On-carriage by sea transport*
LOC+83+FRMRS'	*FRMRS is final delivery*
...	*more details about container*

Example 5.8.2-3 Transshipment in discharge port

5.11 SOLAS Verified Gross Mass (VGM)

References:

SOLAS Regulations 2, Chapter VI, Paragraphs 4,5,6

IMO MSC.1/Circ.1475, “Guidelines regarding the verified gross mass of a container carrying cargo”.

This message version may be used to transmit data about VGM of containers. Usage of the according data elements is optional and needs to be agreed between communication partners. This message version provides for transmission of

a. Indication whether a specified gross mass has been verified or not
b. Additional information providing evidence of verification

5.11.1 Indication of Verified Gross Mass

Container’s gross mass is specified in the MEA segment of EQD-group 7. The fact that the gross mass (gross weight) has been verified is specified by code VGM in data element C502.6313. In case the gross mass has not been verified yet or the message sender is not aware whether verification has taken place C502.613 = **AET** is to be transmitted.

Examples

The message sender has been assured that container’s gross weight has been verified according to SOLAS regulations:

LOC+147+0011010::5'	*start of stowage location*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container equipment*
...	*some details about container*
MEA+AAE+VGM+KGM:12345'	***verified gross mass***
...	*more details about container*

Example 5.11.1-5.11.1-1 Gross mass declared as verified

Container’s gross weight has not been verified yet or the message sender is not aware of the indication status or verification status is relevant in this transmission:

LOC+147+0011010::5'	*start of stowage location*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container equipment*
...	*some details about container*
MEA+AAE+AET+KGM:12345'	***gross mass without indication whether verified or not***
...	*more details about container*

Example 5.11.1-5.11.1-2 Gross mass without indication whether verified or not

5.11.2 Documentation of Gross Mass Verification

Dependent on the use case sender and receiver might agree to transmit additional information providing evidence of verification. (Refer to *IMO document MSC.1 Circ. 1475* for definition of which information might be required.)

BAPLIE version 3.1 provides for transmission of such information as *free text* allowing the recipient to store it for display, printing and potentially forwarding in other EDI messages.

FTX qualifier **AAY** (certification statements) should be used for this purpose. Four types of VGM documentation are distinguished by codes defined in SMDG code list VGM

SHP	Party / authorized person responsible for VGM declaration (SOLAS Shipper)
SM1	Verification according to SOLAS Method 1
SM2	Verification according to SOLAS Method 2
DRF	Reference to VGM documentation

For each FTX+AAY its type is specified in composite C107.4441. Composite C108 FTX provides 5 data elements each allowing for 512 characters for detailed information. A recommendation for usage of these data element is specified in Table 1 Usage of C108 for different types of VGM documentation on the next page.

Note
The Edifact directory requires transmission of C108.4440.1 as mandatory. In case the information to be transmitted in this data element is not available it is recommended to transmit value **NT** *(not transmitted) in this data element in order to comply with the standard.*

Code	C108.4440.1	C108.4440.2	C108.4440.3	C108.4440.4	C108.4440.5
SHP	party name and address	responsible person including function, department,	EDI signature	verification method	verification date
DRF	verification date and time - format CCYYMMDDHHMMZZZ (code 303 for data element 2379)	party holding verification documents	communication contact	document identification	verification method
SM1	verification date and time - format CCYYMMDDHHMMZZZ (code 303 for data element 2379)	party weighing a packed container (method 1) - including contact address	responsible person	EDI signature	state whose legislation was applied for verification method 1 [ISO 3166 2-letter code]
SM2	verification date and time - format CCYYMMDDHHMMZZZ (code 303 for data element 2379)	party which has calculated gross mass from mass of container content and equipment tare mass (method 2) - including contact address	responsible person	EDI signature	state whose legislation was applied for verification method 2 [ISO 3166 2-letter code]

Table 1 Usage of C108 for different types of VGM documentation

Examples

Just the reference to the VGM documentation is to be transmitted.

LOC+147+0011010::5'	*start of stowage location*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container equipment*
...	*some details about container*
MEA+AAE+VGM+KGM:12345'	*verified gross mass*
...	*more details about container*
FTX+AAY++DRF:VGM:306+ 201606211600UTC: NAME,STREET,CITY,COUNTRY: PHONE,MAIL,ETC: ABC987/65-D'	***verification document reference*** *data/time when issued* *party holding the document* *contact address* *document(s) identification*
...	*more details about container*

Example 5.11.2-1 Reference to VGM documentation

The key data about the documentation for verification according to *SOLAS method 1* are to be transmitted.

LOC+147+0011010::5'	*start of stowage location*
EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'	*start of container equipment*
...	*some details about container*
MEA+AAE+VGM+KGM:12345'	*verified gross mass*
...	*more details about container*
FTX+AAY++SM1:VGM:306+ 201606211600UTC: CARGO WEIGHT LTD,STREET,CITY,?+1562123456: JOHN SMITH,WEIGHT MASTER EAST GATE: JOHN SMITH: US'	***document according method 1*** *data/time when issued* *weighing party; contact addr.* *responsible person* *EDI signature* *state where verified*
...	*more details about container*

Example 5.11.2-2Documentation of gross mass verification

5.12 Complete Interchange for Message BAPLIE

This example shows a very simple but complete (formally correct) set of segments of an interchange for a BAPLIE message.

UNB+UNOA:2+SID+RID+20130430:1159+I-EX1/1++++++T01'	*Interchange header (local time)*
UNH+M-EX1/1+BAPLIE:D:13B:UN:SMDG31'	*Message header (ref id = M-EX1/1)*
BGM+659::LOADONLY+M-EX1/1++38'	*Partial BAPLIE(code 659), loaded containers only (LOADONLY), final stage (code 38)*
DTM+137:201304130959:203'	*Date/time (UTC) when message has been prepared*
NAD+WZ+HNE:TERMINALS:306'	*Function of sender (terminal)*
TDT+20+123W45+++HLC:LINES:306++9354351::11:ANINA'	*Discharge voyage number, vessel operator, vessel identification*
RFF+VON:123E38'	*Loading voyage number*
LOC+5+BEANR	*Place of departure*
DTM+136:201304301048:203'	*Actual departure time*
LOC+61+FRLEH	*Next port of call*
DTM+178:201305012100:203'	*Estimated arrival time*
UNS+D'	*End of message header*
LOC+147+0200688:9711:5'	*Stowage location (used)*
EQD+CN+SUDU1234569:6346:5+42U0+6346:5+++5'	*40' open top container*
NAD+CF+HSD:LINES:306'	*Container operator (HSD)*
MEA+AAE+AET+KGM:22600'	*Gross weight (22.6 t)*
DIM+13+CMT:::92'	*Overheight (92 cm)*
CNT+8:1'	*Control total*
LOC+147+0200690:9711:5'	*Stowage location (blocked)*
FTX+AGW++LOST:STOWLOC:306'	*Lost slot*
RFF+EQ:SUDU123459'	*Equipment causing lost slot*
CNT+8:0'	*Control total*
UNT+21+M-EX1/1'	*Message trailer (21 segments)*
UNZ+1+I-EX1/1'	*Interchange trailer (1 message)*

Example 5.12-5.11.2-1: Complete Interchange

UNB – Start of interchange. The segment specifies Edifact syntax *level* (UNOA) and *version* (2) used for the interchange. SID and RID identify *interchange's sender and recipient*. It is followed by preparation date and time. I-EX1/1 specifies interchange's *control reference*. T01 identifies *a communication agreement ID* agreed on by sender and recipient.

UNH – Start of message. M-EX1/1 has been chosen *as message's reference number (message reference ID).* It is followed by the formal *message identifier*.

UNB and UNH as well as UNT and UNZ at the end of the interchange are mandatory service segments.

UNT – End of message. As a control count it specifies the number of segments (21) transmitted in the message with reference ID M-EX1/1.

UNZ – End of interchange. It specifies the number messages (1) being part of interchange with control reference I-EX1/1.

BGM – Specify type of BAPLIE. For above example type is *partial BAPLIE* containing *loaded-only* containers, stage is *final*. (For other types of BAPLIE message see section 5.1)

NAD – Business function of sender. WZ qualifies sender as departure terminal operator. Further identification is given in coded form (HNE referring to PSA Europa Terminal in Antwerp).

TDT – Means of transport details. 20 qualifies transport stage as main-carriage. 123W45 specifies vessel's discharge voyage number. HLC identifies the vessel operator. The means of transport is identified by its IMO number 9354351 and its name ANINA.

RFF – Qualifier VON is used to specify the loading voyage number 123E38.

LOC+5 specifies departure port BEANR (Antwerp)

DTM+136 specifies actual departure time for BEANR.

LOC+61 specifies FRLEH as next port of call.

DTM+178 specifies the estimated arrival time in FRLEH.

UNS+D defines the end of heading segments. Message's remaining segments (except UNT) are to be considered as message's core. Note, transmission of this segment is mandatory!

The subsequent segments shown with gray background are considered as message's core. In most real cases this core consists of some hundred or thousand segment groups specifying usage of stowage locations. In above example there are only 2 stowage positions transmitted:

LOC+147+0200688 – This location is occupied by an over-height container causing a lost slot.

LOC+147+0200690 – This location cannot be used. It is blocked due to over-height of the other container.

CNT+8:x' – A CNT segment must be transmitted as last one for each stowage location. The x is to be transmitted as number of units of equipment specified within the location. (1 for the stowage location occupied by the over-height container, 0 for the lost slot)

6 List of Examples

7 Index

(Due to technical limitation this index does not list references into section 4.4 Message Implementation Reference.)