# The SOLAS Container Weight Verification Requirement

# VERMAS

## VERIFICATION OF MASS

Port de Barcelona

### GUIDELINE FOR THE UN/EDIFACT D16A VERMAS MESSAGE

## Version 1.4

| | |
|---|---|
| Message: | VERMAS |
| Version: | 1.4 |
| Date: | February 2017 |
| Source: | *Port de Barcelona* |

# CHANGE CONTROL

**Version 1.4** (February 2017). Container terminals have to know who is the shipper for billing it when they receive, the VGM informative message (use case nº 8), later than they expect.

**Version 1.3** (June 2016) Due to some changes in the national legislation (15th June 2016) the following changes have been applied in the use case 8 (VGM communication between carrier and terminal):

- Verification date in segment DTM (Group 5) changes from required to optional.
- Method used for weighing the container in segment DOC (Group 7) changes from required to optional.

**Version 1.2** (June 2016) introduces the following changes:

This message implementation guide is based on EDIFACT VERMAS message from D16A.

Code "749" is used in DE1001 from segment BGM, instead of code "XXX" that was used before the publication of EDIFACT Directory D16A. All the examples that used code "XXX" have been changed to the new code "749".

Due to some changes in the national legislation, now the references to the weighing equipment are not mandatory and, in order to maintain the compatibility with the applications developed, the transmission of the weighing equipment identification is optional now.

In a weighing order message ("127" in DE1000 of segment BGM), always have to be sent the container identification or a container reference number. And, in a VGM notification message ("749" in DE1000 of segment BGM) the container identification is always required, being optional its container reference number.

The shipper information that was not included in use cases from 10th to 13th now can be declared but it is optional.

The data element C503 in segment DOC (group 7) changes from required to optional.

**Version 1.1** (May 2016) introduces the following changes:

This message implementation guide is based on VERMAS MIG v.0.5 from SMDG.

According to v0.5 of the SMDG VERMAS MIG, the "Submitter" of the message (code "TB") has been included in segment NAD (group 2).
It has also been included carrier details in segment NAD (group 2) (code "CA").

According to the minimum information that is required in the national legislation in the documents from shipper to carrier, it has been included:

- the use of data elements C059, 3164, 3251 and 3207 of segment NAD (group 2) to inform about the addresses of the submitter and the shipping agent.
- the identification of the weighing equipment used (new use of segment RFF in group 4 with qualifier "AGP")

- a disclaimer in segment DOC (group 7) indicating that, if the method used to obtain the verified gross mass (method 1 or 2) is included in that segment, it is equivalent to declaring that the equipment meets the requirements specified in national legislation for those weighing equipment. And if method 2 is indicated, it is stating that the requirements of national law are met in order to use that method.

Previous version includes some segments that are unnecessary in our Port, or segments with information duplicated in other segments, so:

- Shipper's identifying number for shipment, SI use of segment RFF in group 1 (because the same information is in segment RFF of group 4);
- Bill of lading number, BM use of segment RFF (group 4);
- segment DTM (group 7) has been removed, because part of this information was also in segment DTM (at header level) and part at the DTM segment in group 5;
- the DRF use of segment DOC (group 7);
- the OB use of segment NAD (group 8);
- the WC use of segment NAD (group 8) and
- in segment NAD (group 8) have been removed the following data elements and codes:
    - C819 Country subdivision details
    - 4 repetitions of data element 3036 (only one could be used)
    - 3 repetitions of data element 3042 (only one could be used)
    - In data element 1131 of composite element C082 code INTTRA has been removed
    - In data element 3055 of composite element C082 code GS1 has been removed

A lot of changes have been introduced in chapter “Use cases and examples”:

1. There are three new use cases:
    - Use case 11: Shipper orders the weighing to the carrier
    - Use case 12: Shipper orders the weighing to the weighing station
    - Use case 13: Carrier orders the weighing to the weighing station

2. There is a new table with the information that must and can be exchanged in each use case.

**Version 1.0** (March 2016) was the first version.

# TABLE OF CONTENTS

GENERAL INTRODUCTION .....5
STATUS INDICATORS AND USAGE INDICATORS .....8
SEGMENT TABLE .....9
BRANCHING DIAGRAM (BARCELONA PORT MIG).....10
SEGMENTS .....11
DATA SET .....38
USE CASES .....40
INFORMATION USAGE IN EACH USE CASE .....42
EXAMPLES .....44
DOCUMENT MAINTENANCE .....52

# GENERAL INTRODUCTION

This MIG is based on the v1.0 of the VERMAS MIG (21th June 2016) developed by the SMDG and message VERMAS from the EDIFACT Directory D16A.

## SCOPE

The Verified Gross Mass message may be used for both national and international applications.

The VERMAS message is typically exchanged between a shipper of goods for ocean transport, a forwarder, a non-vessel operating common carrier, an operator of a container weighing facility, a container terminal operator / stevedore, a vessel operator, a shipping line, the vessel's master, a container operator, a slot charterer.

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

## FUNCTIONAL DEFINITION

In relation to a supply chain including the transport of a packed container on an ocean vessel, the Verified Gross Mass message (VERMAS) permits to submit the Verified Gross Mass of the packed container and supporting information as legally required by the SOLAS Convention Chapter VI, Part A, Regulation 2.

VERMAS can be used by different parties at different times in the process chain. It is not dedicated to a particular process step in the transport chain.

VERMAS shall only be used for transmission of the SOLAS Verified Gross Mass and directly related information.

## FIELD OF APPLICATION

The Verified Gross Mass message may be used for both national and international applications. It is based on universal practice related to administration, commerce and transport, and is not dependent on the type of business or industry.

## PRINCIPLES

- VERMAS incorporates information on the Verified Gross Mass (VGM) of a packed container, the time, place and method of obtaining the VGM, the responsible parties, and references required by the receiver to assign the VGM to his transactions.

- The message is used to transmit information related to one or many containers belonging to a clearly defined transport from a shipper to a consignee.

- The message can be exchanged between any two parties in the maritime transport chain as per mutual agreement. The sender may have obtained the Verified Gross Mass himself or he may forward a VGM received from a 3rd party. Each party in the transport chain can be a sender or a receiver of a VERMAS message.

- The only mandatory information in the message is on the container and on the VGM. All other information is optional and transmission depends on the role of sender and receiver in the transport chain. It is essential that sender and receiver agree on the information and references to be transmitted.

- The VERMAS is a small message for a clearly dedicated purpose. It shall only be used for transmission of the VGM as required by SOLAS and directly related information.

- It shall not be used as a handling order.

- The message will not be used for reporting of empty containers.

- The SOLAS Convention was ratified by and therefore applies to literally all sea going states worldwide. But at the time of developing the VERMAS message not all states have published their national legislation. Future legislations may result in additional reporting requirements that may lead to an enhanced message scope.

- Dependent on nature of cargo further attributes such as temperature control, identification of dangerous goods, non-standard dimensions, handling requirements may be added.

**PARTICULARITIES OF THE MIG FOR THE PORT OF BARCELONA**

- Message VERMAS permits to submit the Verified Gross Mass of the packed container and supporting information as legally required by the SOLAS Convention Chapter VI, Part A, Regulation 2 and additionally permits to send a weighing order to an operator of a container weighing facility (it could be a maritime terminal)

- The association among several messages that are related to the same communication of the VGM information between two parties will be based in the use of the same reference in all the messages. For that purpose, the "Sender's reference to the original message" (code "AGO") declared in segment RFF from group 1 will be the same in all the messages used for the same communication of the VGM of a container (the original message, modifications and even the cancellation).

- In order to link the VERMAS message with the other documentary transactions associated to a loading operation on a vessel, the booking number and the shipping agent always have to be declared.

- DE8169 of segment EQD will not be used in the MIG for the Port of Barcelona because all containers have to be full (empty containers are out of the scope of this procedure).

- Two new codes have been included in data element 1153 of segment RFF (group 4)
  - ***SQ*** *Equipment sequence number (reference assigned to the container before the container number was known)*
  - ***VOR*** *Transport equipment gross mass verification order reference*
    *Reference number identifying the order for obtaining a Verified Gross Mass (weight) of packed transport equipment as per SOLAS Chapter VI, Regulation 2, paragraphs 4-6.*

- Segment LOC from Group 4 will not be used in the MIG for the Port of Barcelona. The information related to the locations related to container's transport chain will be transmitted using other container messages (i.e. acceptance orders or loading lists).

- Only the code "VGM" (Verified gross mass - transport equipment verified gross weight) will be accepted in DE6313 of segment MEA because the VERMAS will be sent only when the VGM has to be communicated between two parties.

- When, in a data element that is included in the MIG maintained by SMDG, there are several codes that are not used in the MIG for the Port of Barcelona, those codes will be marked in blue color and ~~crossed out~~.

- When the Port of Barcelona has added a new use for a segment, or a new code in a data element (not included in the MIG maintained by SMDG), it will be marked in red color.

# STATUS INDICATORS AND USAGE INDICATORS

**Status Indicators**
Status Indicators (M and C) form part of the UN/EDIFACT standard and indicate a minimum requirement to fulfil the needs of the message structure.
The Status Indicators are:-

| *Value* | *Description* |
|---|---|
| M | Mandatory<br>This entity must appear in all messages. Shown as Usage Indicator "M" in Implementation Guidelines. |
| C | Conditional<br>This entity is used by agreement between the parties to the transaction. |

A 'Conditional' Status Indicator may be represented by a supporting Usage Indicator which is either R, O, D or X (see below)

**Usage Indicators**
Throughout this document reference is made to indicators (M, R, D, O and X) which are shown adjacent to data items and which dictate for the particular message or set thereof the agreed usage of the data items or entities.
Set out below are the indicators and their respective uses:-

| *Value* | *Description* |
|---|---|
| M | Mandatory<br>Indicates that this item is mandatory in the message. |
| R | Required<br>Indicates that this entity must be sent in this implementation. |
| D | Dependent<br>Indicates that the use of the entity depends upon a well-defined condition or set of conditions. These conditions must be clearly specified in the relevant implementation guideline. |
| O | Optional<br>Indicates that this entity is at the need or discretion of the sender of the message. |
| X | Not Used<br>Indicates that the entity is not to be used in this message implementation. |

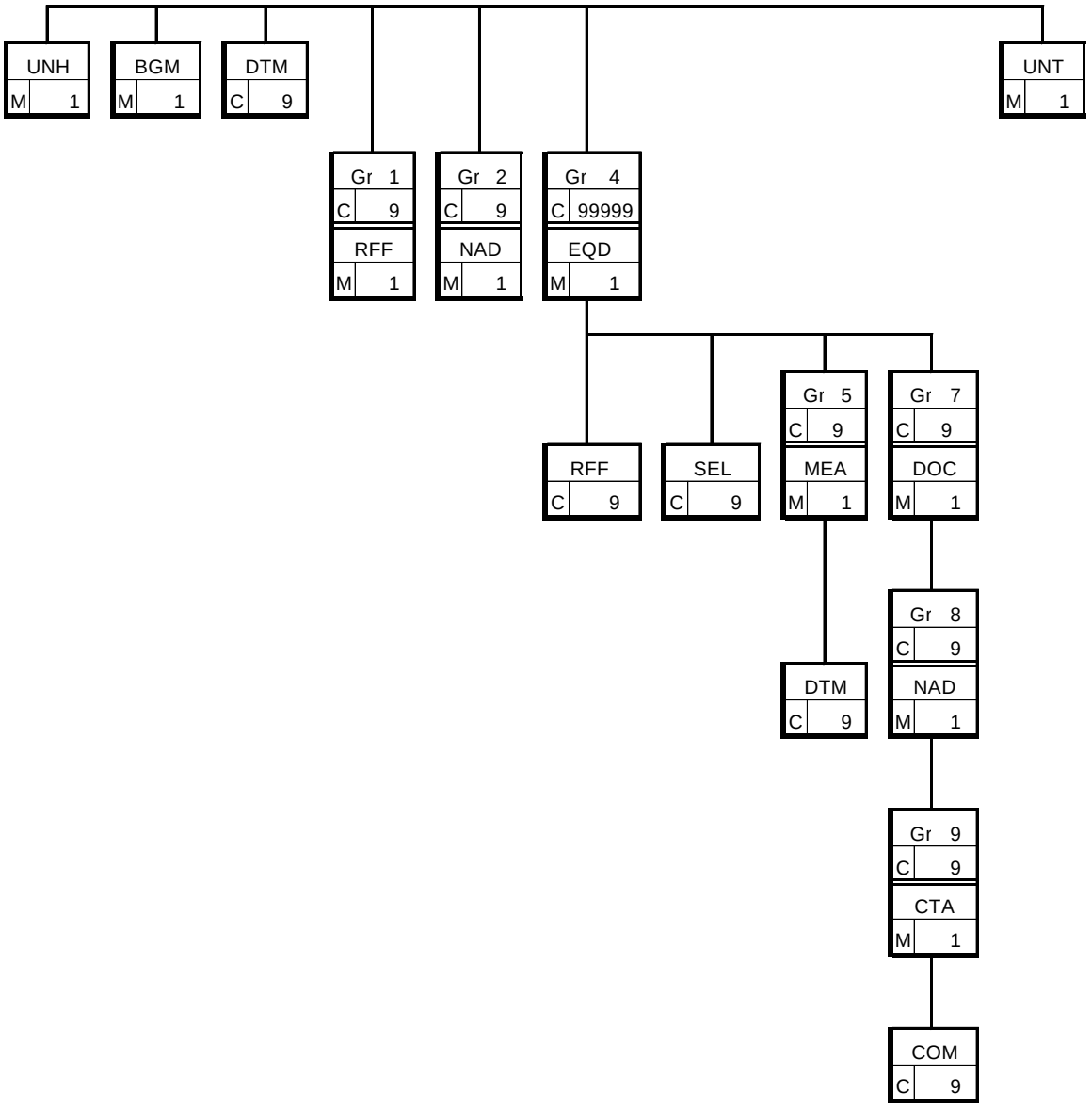
Where an element within a composite is marked “M” or “R”, but the composite has been marked “O” or “D”, this indicates that the element must always be transmitted only if the composite is used.

**Temporary codes**
In this implementation there are used some codes that are not included in the UNCL. These are temporary codes. When those codes are used, they are between the “[“ and the “]” characters.

# SEGMENT TABLE

| MIG Usage | Pos. No. | Seg. ID | Name | Directory Usage | Max.Use | Group Repeat |
|---|---|---|---|---|---|---|
| M | 00010 | UNH | Message Header | M | 1 | |
| M | 00020 | BGM | Beginning of Message | M | 1 | |
| R | 00030 | DTM | Date/Time/Period | C | 1 | |
| R | 00040 | | Segment Group 1: RFF-DTM | C | | 9 |
| M | 00050 | RFF | Reference | M | 1 | |
| X | 00060 | DTM | Date/Time/Period | C | 1 | |
| R | 00070 | | Segment Group 2: NAD-SG3 | C | | 9 |
| M | 00080 | NAD | Name and Address | M | 1 | |
| X | 00090 | | Segment Group 3: CTA-COM | C | | 9 |
| M | 00100 | CTA | Contact Information | M | 1 | |
| X | 00110 | COM | Communication Contact | C | 9 | |
| R | 00120 | | Segment Group 4: EQD-RFF-LOC-SEL -SG5-SG6-SG7 | C | | 99999 |
| M | 00130 | EQD | Equipment Details | M | 1 | |
| R | 00140 | RFF | Reference | C | 9 | |
| X | 00150 | LOC | Place/Location Identification | C | 9 | |
| O | 00160 | SEL | Seal Number | C | 9 | |
| R | 00170 | | Segment Group 5: MEA-DTM | C | | 9 |
| M | 00180 | MEA | Measurements | M | 1 | |
| D | 00190 | DTM | Date/Time/Period | C | 9 | |
| X | 00200 | | Segment Group 6: TDT-RFF | C | | 9 |
| M | 00210 | TDT | Transport Information | M | 1 | |
| X | 00220 | RFF | Reference | C | 9 | |
| O | 00230 | | Segment Group 7: DOC-DTM-SG8 | C | | 9 |
| M | 00240 | DOC | Document/Message Details | M | 1 | |
| X | 00250 | DTM | Date/Time/Period | C | 9 | |
| O | 00260 | | Segment Group 8: NAD-SG9 | C | | 9 |
| M | 00270 | NAD | Name and Address | M | 1 | |
| O | 00280 | | Segment Group 9: CTA-COM | C | | 9 |
| M | 00290 | CTA | Contact Information | M | 1 | |
| O | 00300 | COM | Communication Contact | C | 9 | |
| M | 00310 | UNT | Message Trailer | M | 1 | |

# BRANCHING DIAGRAM (BARCELONA PORT MIG)



# SEGMENTS

# HEADER SECTION

## M UNH MESSAGE HEADER

Segment Function: To head and identify the message type and version.

Position: 00010
Message Level: Header
Segment Repeats: 1
Segment Status: Mandatory
Segment Usage: Mandatory
Sample Usage: UNH+002408123456+VERMAS:D:16A:UN:SMDG10'

Clarification: *The UNH segment must always be sent.*

| | | | | | |
|---|---|---|---|---|---|
| M | 0062 | MESSAGE REFERENCE NUMBER<br>*Message Reference Number* | M | 1 | an..14 |
| M | S009 | MESSAGE IDENTIFIER | M | 1 | |
| M | 0065 | Message Type Identifier<br>*VERMAS SOLAS verified gross mass* | M | | an..6 |
| M | 0052 | Message Type Version Number<br>*D* | M | | an..3 |
| M | 0054 | Message Type Release Number<br>*16A* | M | | an..3 |
| M | 0051 | Controlling Agency<br>*UN* | M | | an..2 |
| O | 0057 | Association Assigned Code<br>*[SMDG10] (Version 1.0)* | C | | an..6 |
| X | 0068 | COMMON ACCESS REFERENCE | C | 1 | an..35 |
| X | S010 | STATUS OF THE TRANSFER | C | 1 | |
| X | 0070 | Sequence of transfers | M | | n..2 |
| X | 0073 | First and last transfer | C | | a1 |

# M BGM BEGINNING OF MESSAGE

Segment Function: To indicate the type and function of a message and to transmit the identifying number.

Position: 00020
Message Level: Header
Segment Repeats: 1
Segment Status: Mandatory
Segment Usage: Mandatory
Sample Segments: BGM+749+B002408123456+9'

Clarification: *The BGM segment must always be sent.*

| | | | | | |
|---|---|---|---|---|---|
| M | C002 | DOCUMENT/MESSAGE NAME | C | 1 | |
| M | 1001 | Document/message name, coded | C | | an..3 |
| | | *749 Transport equipment gross mass verification message*<br>*Message containing information regarding gross mass verification of transport equipment.*<br>*127 Transport equipment special service instruction*<br>*To be used when the receiving party has to weight the container.* | | | |
| X | 1131 | Code list identification code | C | | an..17 |
| X | 3055 | Code list responsible agency, coded | C | | an..3 |
| X | 1000 | Document/message name | C | | an..35 |
| R | C106 | DOCUMENT/MESSAGE IDENTIFICATION | C | 1 | |
| R | 1004 | Document identifier | C | | an..70 |
| | | *Sender's Unique Internal Reference Number* | | | |
| X | 1056 | Version identifier | C | | an..9 |
| X | 1060 | Revision identifier | C | | an..6 |
| M | 1225 | MESSAGE FUNCTION, CODED | C | 1 | an..3 |
| | | *1 Cancellation*<br>*5 Replace*<br>*9 Original (new message)* | | | |
| X | 4343 | RESPONSE TYPE CODE | C | 1 | an..3 |
| X | 1373 | DOCUMENT STATUS CODE | C | 1 | an..3 |
| X | 3453 | LANGUAJE NAME CODE | C | 1 | an..3 |

# R DTM DATE/TIME PERIOD

| | |
|---|---|
| Segment Function: | To specify date, and/or time, or period |
| Position: | 00030 |
| Message Level: | Header |
| Segment Repeats: | 1 |
| Segment Status: | Conditional |
| Segment Usage: | Required |
| Sample Segment: | DTM+137:201609231537:203' |
| Clarification: | The DTM at this level can be used to specify dates related to the message. *Only one occurrence of this segment is used. The document/message send date is required.* |

| | | | | | |
|---|---|---|---|---|---|
| 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/time/period qualifier | | M | an..3 |
| | | Code qualifying the function of a date, time or period. | | | |
| | | *137* | *Document issue date time* | | |
| R | 2380 | Date/time/period | | C | an..35 |
| | | The value of a date, a date/time, a time or of a period in a specified representation. | | | |
| R | 2379 | Date/time/period format qualifier | | C | an..3 |
| | | *203* | *CCYYMMDDHMM* | | |

# R SEGMENT GROUP 1 – RFF – DTM

| | |
|---|---|
| Group Function: | A group of segments to specify references relating to the whole message. |
| Position: | 00040 |
| Group Repeats: | 9 |
| Group Status: | Conditional |
| Group Usage: | Required |
| Clarification: | *The RFF Group should be used in the case of changes to information transmitted in a previous message.* |

# M RFF REFERENCE

| | |
|---|---|
| Segment Function: | To specify a reference. |
| Position: | 00050 |
| Message Level: | Group 1 |
| Segment Repeats: | 1 |
| Segment Status: | Mandatory |
| Segment Usage: | Mandatory |
| Sample Segments: | RFF+ACW:002408000021'<br>RFF+AGO:002408000006' |
| Clarification: | To specify references applicable to the whole message, such as the previous message reference.<br>*One occurrence of this segment is required: reference included in DE1004 as a "Sender's Unique Internal Reference Number"*<br>*Also, a reference to a previous message will be necessary when the function of the message is other than "original".* |

| | | | | | |
|---|---|---|---|---|---|
| M | C506 | REFERENCE | | M 1 | |
| | | Identification of a reference. | | | |
| M | 1153 | Reference qualifier | | M | an..3 |
| | | Code qualifying a reference. | | | |
| | | *AAS* | *Transport contract document identifier* | | |
| | | *ABE* | *Declarant's reference number* | | |
| | | *ACW* | *Reference number to previous message* | | |
| | | ~~*AFB*~~ | ~~*Cargo manifest number*~~ | | |
| | | *AGO* | *Sender's reference to the original message (the same reference for the same communication of a VGM)* | | |
| | | ~~*MS*~~ | ~~*Message sender*~~ | | |
| | | ~~*SI*~~ | ~~*SID (Shipper's identifying number for shipment)*~~ | | |
| R | 1154 | Reference identifier | | C | an..70 |
| | | Identifies a reference. | | | |
| X | 1156 | Document line identifier | | C | an..6 |
| X | 1056 | Version identifier | | C | an..9 |
| X | 1060 | Revision identifier | | C | an..6 |

# X DTM DATE/TIME PERIOD

Segment Function: To specify date, and/or time, or period

Position: 00060
Message Level: Group 1
Segment Repeats: 1
Segment Status: Conditional
Segment Usage: Required
Sample Segment: DTM+171:201608291235:203'

Clarification: The DTM at this level can be used to specify dates related to the message.

| | | | | | |
|---|---|---|---|---|---|
| M | C507 | DATE/TIME/PERIOD | M | 1 | |
| | | Date and/or time, or period relevant to the specified date/time/period type. | | | |
| M | 2005 | Date/time/period qualifier | M | | an..3 |
| | | Code qualifying the function of a date, time or period. | | | |
| | | *171* *Reference date time* | | | |
| R | 2380 | Date/time/period | C | | an..35 |
| | | The value of a date, a date/time, a time or of a period in a specified representation. | | | |
| R | 2379 | Date/time/period format qualifier | C | | an..3 |
| | | *203* *CCYYMMDDHMM* | | | |

# R SEGMENT GROUP 2 – NAD – SG3

Group Function: A group of segments to identify a party and/or addresses and related contacts.

Position: 00070
Group Repeats: 9
Group Status: Conditional
Group Usage: Required

Clarification:

# M NAD NAME AND ADDRESS

Segment Function: To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207.

Position: 00080
Message Level: Group 2
Segment Repeats: 1
Segment Status: Mandatory
Segment Usage: Mandatory
Sample Segments:

Identification of the shipping agent:
NAD+CF+A08123456++CONSIGNATARIO SA'
Carrier's identification:
NAD+CA+XYC++XY CARRIER'
Submitter's identification:
NAD+TB+A08123456++CONSIGNATARIO SA+MOLL DE BARCELONA S/N+BARCELONA++08039+ES'

Clarification: The NAD segment at this level must always be sent. It identifies parties associated with the equipment weighing process.
The identification of the shipping agent and the submitter is required and the carrier's identification is optional.

| | | | | | | |
|---|---|---|---|---|---|---|
| M | 3035 | PARTY QUALIFIER | | M | 1 | an..3 |
| | Code giving specific meaning to a party. | | | | | |
| | | CA | Carrier | | | |
| | | CF | Container operator/lessee (use this code for the shipping agent) | | | |
| | | ~~CZ~~ | ~~Consignor~~ | | | |
| | | ~~DEI~~ | ~~Means of transport operator~~ | | | |
| | | ~~GF~~ | ~~Slot charter party~~ | | | |
| | | ~~PQ~~ | ~~Certifying party~~ | | | |
| | | ~~SPC~~ | ~~Party responsible to obtain SOLAS Verified Gross Mass~~ | | | |
| | | TB | Submitter | | | |
| | | ~~TR~~ | ~~Terminal operator~~ | | | |
| | | ~~WPA~~ | ~~Weighting party~~ | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| R | C082 | PARTY IDENTIFICATION DETAILS | | C | 1 | |
| | Identification of a transaction party by code. | | | | | |
| M | 3039 | Party id. identification | | M | | an..35 |
| | Code specifying the identity of a party. | | | | | |
| | | PARTY | Party identification | | | |

For shipping agent use the company NIF; for carriers use the SCAC codes and, for submitters, the company NIF or the VAT identification number can be used)

~~RESPONSIBLE~~ ~~Responsible person identification~~

| | | | | | |
|---|---|---|---|---|---|
| X | 1131 | Code list identification code | C | | an..17 |
| X | 3055 | Code list responsible agency, coded | C | | an..3 |
| X | C058 | NAME AND ADDRESS | C | 1 | |
| | | Unstructured name and address: one to five lines. | | | |
| M | 3124 | Name and address line | M | | an..35 |
| | | Free form description of a name and address line. | | | |
| O | 3124 | Name and address line | C | | an..35 |
| | | Free form description of a name and address line. | | | |
| O | 3124 | Name and address line | C | | an..35 |
| | | Free form description of a name and address line. | | | |
| O | 3124 | Name and address line | C | | an..35 |
| | | Free form description of a name and address line. | | | |
| O | 3124 | Name and address line | C | | an..35 |
| | | Free form description of a name and address line. | | | |
| O | C080 | PARTY NAME | C | 1 | |
| | | Identification of a transaction party by name, one line. Party name may be formatted. | | | |
| M | 3036 | Party name | M | | 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 | 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. Refer to D.13B Data Element Dictionary for acceptable code values. | | | |
| O | C059 | STREET | C | 1 | |
| | | Street address and/or PO Box number in a structured address: one line. | | | |
| M | 3042 | Street and number or post office box id. | M | | an..35 |
| | | To identify a street and number and/or Post Office box number. | | | |
| O | 3042 | Street and number or post office box id. | C | | an..35 |
| | | To identify a street and number and/or Post Office box number. | | | |
| O | 3042 | Street and number or post office box id. | C | | an..35 |
| | | To identify a street and number and/or Post Office box number. | | | |
| O | 3042 | Street and number or post office box id. | C | | an..35 |
| | | To identify a street and number and/or Post Office box number. | | | |
| O | 3164 | CITY NAME | C | | an..35 |
| | | Name of a city. | | | |
| X | C819 | COUNTRY SUBDIVISION DETAILS | C | 1 | |
| | | To specify a country subdivision, such as state, canton, county, prefecture. | | | |
| O | 3229 | Country subdivision identifier | C | | an..9 |
| | | To identify a country subdivision, such as state, canton, county, prefecture. | | | |
| O | 1131 | Code list identification code | C | | an..17 |
| | | Code identifying a user or association maintained code list. | | | |
| O | 3055 | Code list responsible agency, coded | C | | an..3 |
| | | Code specifying the agency responsible for a code list. Refer to D.13B Data Element Dictionary for acceptable code values. | | | |
| O | 3228 | Country subdivision name | C | | an..70 |
| | | Name of a country subdivision, such as state, canton, county, prefecture. | | | |
| O | 3251 | POSTAL IDENTIFICATION CODE | C | | an..17 |
| | | Code specifying the postal zone or address. | | | |
| O | 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. | | | |

# X SEGMENT GROUP 3 – CTA - COM

Group Function: A Group of segments to identify a contact and his communications

Position: 00090
Group repeats: 9
Group status: Conditional
Group Usage: Optional

Clarification:

# M CTA CONTACT INFORMATION

Function: To identify a person or a department to whom communication should be directed.

Position: 00100
Message Level: Group 3
Segment Repeats: 1
Segment Status: Mandatory
Segment Usage: Mandatory
Sample Segment: CTA+MS+:EXPORT DEPARTMENT'

Clarification: The CTA segment identifies the party that has to be contacted when more information about the message is requested.

```
O       3139  CONTACT FUNCTION CODE                                    C       an..3
              Code specifying the function of a contact (e.g. department or person).
                      BN      Certification contact
                      CW      Confirmed with
                      MS      Message sender contact

O       C056  CONTACT DETAILS                                          C       1
              Code and/or name of a contact such as a dept. or employee. Code preferred.
O        3143  Contact identifier                                      C       an..17
              To identify a contact, such as a department or employee.
O        3142  Contact name                                            C       an..35
              Name of a contact, such as a department or employee.
```

# X COM CONTACT COMMUNICATION

Function: To identify a communication number of a department or a person to whom communication should be directed.

Position: 00110
Message Level: Group 3
Segment Repeats: 9
Segment Status: Conditional
Segment Usage: Optional
Sample Segment: COM+639765432:AL'

Clarification: The COM segment identifies the communication number of the contact person.

| | | | | | |
|---|---|---|---|---|---|
| M | C076 | COMMUNICATION OF 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 | | |
| | | AM | International telephone direct line | | |
| | | EM | Electronic mail | | |

## R SEGMENT GROUP 4 – EQD – RFF – LOC – SEL – SG5 – SG6 – SG7

Group Function: A group of segments containing information about one packed container.

Position: 00120
Group Repeats: 99999
Group Status: Conditional
Group Usage: Required
Clarification: Group transmitting VGM information about a container:
- identification and routing information
- gross mass (status verified or not)
- DOC group for documentation of VGM

## M EQD EQUIPMENT DETAILS

Segment Function: To identify a unit of equipment.

Position: 00130
Message Level: Group 4
Segment Repeats: 1
Segment Status: Mandatory
Segment Usage: Mandatory
Sample Segments: EQD+CN+SUDU1234569+42G1'

Clarification: To specify container or equipment details.
*In a weighing order message ("127" in DE1000 of segment BGM), always have to be sent the container identification or a container reference number (segment RFF, group 4, with "SQ" in DE1153).*
*In a VGM notification message ("749" in DE1000 of segment BGM) the container identification is always required, being optional its container reference number.*

| | | | | | | |
|---|---|---|---|---|---|---|
| M | 8053 | EQUIPMENT QUALIFIER | | M | 1 | an..3 |
| | | *CN Container* | | | | |
| O | C237 | EQUIPMENT IDENTIFICATION | | C | 1 | |
| R | 8260 | Equipment identification number | | C | | an..17 |
| | | *Equipment Number* | | | | |
| | | *Container numbers must include both prefix and number, expressed as a contiguous string without spaces or hyphens.* | | | | |
| X | 1131 | Code list qualifier | | C | | an..17 |
| X | 3055 | Code list responsible agency, coded | | C | | an..3 |
| X | 3207 | Country, coded | | C | | an..3 |
| O | C224 | EQUIPMENT SIZE AND TYPE | | C | 1 | |
| O | 8155 | Equipment size and type identification | | C | | an..10 |
| | | *Equipment Size and type* | | | | |
| | | *Container size and type according to ISO6346 codes.* | | | | |
| X | 1131 | Code list qualifier | | C | | an..17 |
| X | 3055 | Code list responsible agency, coded | | C | | an..3 |
| X | 8154 | Equipment size and type | | C | | an..35 |
| X | 8077 | EQUIPMENT SUPPLIER, CODED | | C | | an..3 |
| X | 8249 | EQUIPMENT STATUS, CODED | | C | | an..3 |
| X | 8169 | FULL OR EMPTY INDICATOR, CODED | | C | | an..3 |
| X | 4233 | MARKING INSTRUCTIONS CODE | | C | | an..3 |

# R RFF REFERENCE

Segment Function: To specify a reference.

Position: 00140
Message Level: Group 4
Segment Repeats: 9
Segment Status: Conditional
Segment Usage Required
Sample Segment: RFF+BN:37N023' (booking number)
RFF+SI:US1603-2224' (shipper's internal reference)
RFF+AGP:2019021 / 9104452 BASCULA A' (weighing equipment identification)
RFF+SQ:40HCREF00104' (equipment sequence number, when container number is or was unknown)

Clarification: To specify references related to the container.
*This reference is intended to relate the transmitted VGM data to message recipient's internal business transactions.*
*The booking number always must be sent.*
*The weighing equipment identification is not required, but it is maintained as optional in this version in order to preserve the compatibility with version 1.1.*

| | | | | | |
|---|---|---|---|---|---|
| M | C506 | REFERENCE<br>Identification of a reference. | M | 1 | |
| M | 1153 | Reference code qualifier<br>*Code qualifying a reference.*<br>*AGP Company issued equipment ID (Owner/operator, non-government issued equipment reference number). Weighing equipment ID. (CONDITIONAL)*<br>*~~BM Bill of lading number~~*<br>*BN Consignment identifier, carrier assigned (i.e.booking number)*<br>*SI SID (Shipper's identifying number for shipment)*<br>*SQ Equipment sequence number (reference assigned to the container before the container number was known)*<br>*VOR Transport equipment gross mass verification order reference Reference number identifying the order for obtaining a Verified Gross Mass (weight) of a packed transport equipment as per SOLAS Chapter VI, Regulation 2, paragraphs 4-6.* | M | an..3 | |
| R | 1154 | Reference identifier<br>*Identifies a reference.* | C | an..70 | |
| X | 1156 | Document line identifier | C | an..6 | |
| X | 1056 | Version identifier | C | an..9 | |
| X | 1060 | Revision identifier | C | an..6 | |

# X LOC PLACE/LOCATION IDENTIFICATION

Segment Function: To identify a country/place/location/ related location one/related location two.

Position: 00150
Message Level: Group 4
Segment Repeats: 9
Segment Status: Conditional
Segment Usage: Required
Sample Segment: LOC+9+FRMRS+CMA:::CMA TERMINAL' (port of loading incl. terminal spec.)

Clarification: To specify locations related to container's transport chain.
The location where the VGM has been determined is NOT to be transmitted in this segment but in SG8 as part of NAD+WPA.

| | | | | | |
|---|---|---|---|---|---|
| M | 3227 | PLACE/LOCATION QUALIFIER | | M an..3 | |
| | | *Code identifying the function of a location.* | | | |
| | | *9 Place of loading* | | | |
| | | *11 Place of discharge* | | | |
| | | *13 Place of transhipment* | | | |
| | | *20 Place of ultimate destination of goods* | | | |
| | | *65 Final port or place of discharge* | | | |
| | | *76 Original port of loading* | | | |
| | | *84 Transport contract place of acceptance* | | | |
| | | *85 Transport contract place of destination* | | | |
| | | *88 Place of receipt* | | | |
| O | C517 | LOCATION IDENTIFICATION | | C 1 | |
| O | 3225 | Place/location identification | | C | an..35 |
| | | *To identify a location.* | | | |
| | | *UN-LOCODE of place specified in 3227.* | | | |
| X | 1131 | Code list identification code | | C | an..17 |
| X | 3055 | Code list responsible agency code | | C | an..3 |
| X | 3224 | Location name | | C | an..256 |
| O | C519 | RELATED LOCATION ONE IDENTIFICATION | | C 1 | |
| | | *Terminal in port* | | | |
| O | 3223 | First related location identifier | | C | an..35 |
| | | To identify a first related location. | | | |
| X | 1131 | Code list identification code | | C | an..17 |
| X | 3055 | Code list responsible agency code | | C | an..3 |
| O | 3222 | First related location name | | C | an..70 |
| | | *Name of first related location.* | | | |
| X | C553 | RELATED LOCATION TWO IDENTIFICATION | | C 1 | |
| X | 3233 | Second related location identifier | | C | an..35 |
| O | 1131 | Code list identification code | | C | an..17 |
| O | 3055 | Code list responsible agency code | | C | an..3 |
| O | 3232 | Second related location name | | C | an..70 |
| X | 5479 | RELATION CODE | | C | an..3 |

# O SEL SEAL NUMBER

Segment Function: To specify the seal number or a range of seal numbers.

Position: 00160
Message Level: Group 4
Segment Repeats: 9
Segment Status: Conditional
Segment Usage: Optional
Sample Segment: SEL+987654321+SH' (shipper's seal)

Clarification: The seal number(s) attached to the container at the time of VGM determination.

| | | | | | |
|---|---|---|---|---|---|
| R | 9308 | TRANSPORT UNIT SEAL IDENTIFIER | | C | an..35 |
| | | *The identification number of a seal affixed to a transport unit.* | | | |
| R | C215 | SEAL ISSUER | | C | 1 |
| | | Id. of the issuer of a seal on equipment either by code or by name. | | | |
| R | 9303 | Sealing party name code | | C | an..3 |
| | | Code specifying the name of the sealing party. | | | |
| | | | AA Consolidator | | |
| | | | AB Unknown | | |
| | | | ~~CA Carrier~~ | | |
| | | | ~~CU Customs~~ | | |
| | | | SH Shipper | | |
| | | | ~~TO Terminal operator~~ | | |
| X | 1131 | Code list identification code | | C | an..17 |
| X | 3055 | Code list responsible agency code | | C | an..3 |
| X | 9302 | Sealing party name | | C | an..35 |
| X | 4517 | SEAL CONDITION CODE | | C | an..3 |
| X | C208 | IDENTITY NUMBER RANGE | | C | 1 |
| X | 7402 | Object identifier | | M | an..35 |
| X | 7402 | Object identifier | | C | an..35 |
| X | 4525 | SEAL TYPE CODE | | C | an..3 |

# R SEGMENT GROUP 5 – MEA – DTM

Group Function: A group to specify measurements.

Position: 00170
Group Repeats: 9
Group Status: Conditional
Group Usage: Optional

Clarification: A group specifying a packed container's gross mass, when it is verified and optionally the date/time when it was determined.

# M MEA MEASUREMENTS

Segment Function : To specify physical measurements, including dimension tolerances, weights and counts.

Position: 00180
Message Level: Group 5
Segment repeats: 1
Segment Usage: Mandatory
Sample Segments: Gross mass, verified: MEA+AAE+VGM+KGM:21700'
In an order to weight the container: MEA+AAE+VGM+KGM:0'

Clarification: To specify transport equipment gross weight and verified gross mass.

| | | | | | |
|---|---|---|---|---|---|
| M | 6311 | MEASUREMENT PURPOSE CODE QUALIFIER | M | | 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.* | | | |
| | | *~~AET Transport equipment gross weight~~* | | | |
| | | *VGM Verified gross mass - transport equipment verified gross weight* | | | |
| X | 6321 | Measurement significance code | C | | an..3 |
| X | 6155 | Non-discrete measurement name code | C | | an..17 |
| X | 6154 | Non-discrete measurement name | C | | an..70 |
| R | C174 | VALUE/RANGE | C | 1 | |
| | | Measurement value and relevant minimum and maximum values of the measurement range. | | | |
| M | 6411 | Measure unit code | M | | an..8 |
| | | *Code specifying the unit of measurement.* | | | |
| | | *KGM kilogram* | | | |
| | | *~~LBR pounds~~* | | | |
| R | 6314 | Measure | C | | an..18 |
| | | *To specify the value of a measurement.* | | | |
| | | *When the VERMAS message is used as a weighing order (Data element 1001 of segment BGM with value "127" it has to be declared a weight of 0 Kg.* | | | |
| X | 6162 | Range minimum | C | | n..18 |
| X | 6152 | Range maximum | C | | n..18 |
| X | 6432 | Significant digits quantity | C | | n..2 |
| X | 7383 | SURFACE OR LAYER CODE | C | | an..3 |

# O DTM DATE/TIME PERIOD

Segment Function: To specify date, and/or time, or period

Position: 00190
Message Level: Group 5
Segment Repeats: 1
Segment Status: Conditional
Segment Usage: Optional
Sample Segment: DTM+798:201606251632:203'

Clarification: Date/time when gross mass was determined. In case of re-determining VGM, transmission this segment may be used to identify its latest version.

| | | | | |
|---|---|---|---|---|
| M | C507 | DATE/TIME/PERIOD | M | 1 |
| | | Date and/or time, or period relevant to the specified date/time/period type. preliminary function code qualifier | | |
| M | 2005 | Date/time/period function code qualifier | M | an..3 |
| | | *Code qualifying the function of a date, time or period.* | | |
| | | *798 Weight ascertained - Date/Time when gross mass was obtained* | | |
| R | 2380 | Date/time/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/time/period format qualifier | C | an..3 |
| | | *203 CCYYMMDDHHMM* | | |

## X SEGMENT GROUP 6 - TDT

Group Function: A Group of segments to indicate details of inland movement of equipment.

Position: 00200
Group Repeats: 9
Group Status: Conditional
Group Usage: Optional

Clarification: A group transmitting vessel/voyage information allowing to relate the transmitted VGM data to message recipient's internal business transactions.

## M TDT DETAILS OF TRANSPORT

Segment Function: To specify the transport details such as mode of transport, means of transport, its conveyance reference number and the identification of the means of transport.

Position: 00210
Message Level Group 6
Segment Repeats: 1
Segment Status: Mandatory
Segment Usage: Mandatory
Sample Segments:
TDT+20+123E45+1+++++9501344::11:BASLE EXPRESS:PA' (IMO number)
TDT+20+123E45+1+++++DFGN2::296:BASLE EXPRESS:PA' (call sign)

Clarification: To specify information regarding the transport such as mode of transport, means of transport, its conveyance reference number and the identification of the means of transport.

| | | | | | |
|---|---|---|---|---|---|
| X | 8051 | TRANSPORT STAGE CODE QUALIFIER | | M | an..3 |
| | | *Code qualifying a specific stage of transport.* | | | |
| | | *20 Main-carriage Transport* | | | |
| X | 8028 | MEANS OF TRANSPORT JOURNEY IDENTIFIER | | C | an..17 |
| | | To identify a journey of a means of transport. | | | |
| | | import/discharge voyage number (for specification of export/loading voyage number use subsequent RFF segment) | | | |
| X | C220 | MODE OF TRANSPORT | | C | 1 |
| X | 8067 | Transport mode name code | | C | an..3 |
| | | *Code specifying the name of a mode of transport.* | | | |
| | | *code by UN/ECE recommendation 20* | | | |
| | | *1 Maritime* | | | |
| X | 8066 | Transport mode name | | C | an..17 |
| X | C228 | TRANSPORT MEANS | | C | 1 |
| X | 8179 | Transport means description code | | C | an..8 |
| X | 1131 | Code list identification code | | C | an..17 |
| X | 3055 | Code list responsible agency code | | C | an..3 |
| X | 8178 | Transport means description | | C | an..17 |
| X | C040 | CARRIER | | C | 1 |
| X | 3127 | Carrier identifier | | C | an..17 |
| X | 1131 | Code list identification code | | C | an..17 |
| X | 3055 | Code list responsible agency code | | C | an..3 |
| X | 3126 | Carrier name | | C | an..35 |
| X | 8101 | TRANSIT DIRECTION INDICATOR CODE | | C | an..3 |

| | | | | | |
|---|---|---|---|---|---|
| X | C401 | EXCESS TRANSPORTATION INFORMATION | C | 1 | |
| X | 8457 | Excess transportation reason code | M | | an..3 |
| X | 8459 | Excess transportation responsibility code | M | | an..3 |
| X | 7130 | Customer shipment authorisation number | C | | an..17 |
| X | C222 | TRANSPORT IDENTIFICATION | C | 1 | |
| | | Code and/or name identifying the means of transport. | | | |
| X | 8213 | Transport means identification name identifier | C | | an..35 |
| | | *Identifies the name of the transport means.* | | | |
| X | 1131 | Code list identification code | C | | an..17 |
| X | 3055 | Code list responsible agency code | C | | an..3 |
| | | Code specifying the agency responsible for a code list. | | | |
| | | 11 Lloyd's register of shipping (IMO number) | | | |
| | | 296 ITU (International Telecommunication Union) | | | |
| X | 8212 | Transport means identification name | C | | an..70 |
| | | *Name identifying a means of transport.* | | | |
| X | 8453 | Transport means nationality code | C | | an..3 |
| | | Code specifying the nationality of a means of transport. | | | |
| X | 8281 | TRANSPORT MEANS OWNERSHIP INDICATOR CODE | C | | an..3 |
| X | C003 | POWER TYPE | C | 1 | |
| X | 7041 | Power type code | C | | an..3 |
| X | 1131 | Code list identification code | C | | an..17 |
| X | 3055 | Code list responsible agency code | C | | an..3 |
| X | 7040 | Power type description | C | | an..17 |

# X RFF REFERENCE

Segment Function: To specify a reference.

Position: 00220
Message Level: Group 6
Segment Repeats: 9
Segment Status: Conditional
Segment Usage Optional
Sample Segment: RFF+VON:124W51'

Clarification: To specify references related to the voyage.

| | | | | | |
|---|---|---|---|---|---|
| M | | C506 | REFERENCE | M | 1 |
| | | | Identification of a reference. | | |
| M | | 1153 | Reference code qualifier | M | an..3 |
| | | | *Code qualifying a reference.* | | |
| | | | *export/loading voyage number(for specification of import/discharge voyage number use D8023 in preceeding TDT segment)* | | |
| | | | *VON Voyage number* | | |
| X | | 1154 | Reference identifier | C | an..70 |
| | | | Identifies a reference. | | |
| X | | 1156 | Document line identifier | C | an..6 |
| X | | 1056 | Version identifier | C | an..9 |
| X | | 1060 | Revision identifier | C | an..6 |

# O SEGMENT GROUP 7 - DOC - DTM – SG8

| | |
|---|---|
| Group Function: | To identify documents, either printed, electronically transferred, or referenced as specified in message description, including, where relevant, the identification of the type of transaction that will result from this message. |
| Position: | 00230 |
| Group Repeats: | 9 |
| Group Status: | Conditional |
| Group Usage: | Optional |
| Clarification: | Group specifying documentation related to SOLAS gross mass verification of a packed container. |

# M DOC DOCUMENT/MESSAGE DETAILS

| | |
|---|---|
| Segment Function: | To identify documents, either printed, electronically transferred, or referenced as specified in message description, including, where relevant, the identification of the type of transaction that will result from this message. |
| Position: | 00240 |
| Message Level | Group 7 |
| Segment Repeats: | 1 |
| Segment Status: | Mandatory |
| Segment Usage: | Mandatory |
| Sample Segments: | Documentation about party responsible to obtain VGM (shipper):<br>DOC+SHP+27G92ZZ' (documentation ID=27G92ZZ)<br>Documentation about ascertainment of VGM according method 1:<br>DOC+SM1+W42-23110812' (documentation ID=W42-23110812)<br>Documentation about ascertainment of VGM according method 2:<br>DOC+SM2+QCT000784' (documentation ID= QCT000784) |
| Clarification: | The DOC is used to specify type of SOLAS VGM documentation and a unique reference. |

| | | | | | |
|---|---|---|---|---|---|
| M | C002 | DOCUMENT/MESSAGE NAME | | M | 1 |
| | | Identification of a type of document/message by code or name. Code preferred. | | | |
| R | 1001 | Document name code | | C | an..3 |
| | | *Code specifying the document name.* | | | |
| | | *~~DRF - Reference to container's SOLAS VGM documentation~~* | | | |
| | | *SHP - Responsibility to obtain verified gross mass ("shipper")* | | | |
| | | *SM1 - Certificate for ascertainment of VGM according to method 1* | | | |
| | | *SM2 - Certificate for ascertainment of VGM according to method 2* | | | |
| | | *~~DRF - NAD group specifies source of documentation~~* | | | |
| | | *SHP - NAD group specifies party and responsible person* | | | |
| | | *SM1 - NAD group specifies party and optionally further details* | | | |
| | | *SM2 - NAD group specifies party and optionally further details* | | | |
| | | *~~DRF Documentation of gross mass verification~~* | | | |
| | | *SHP Party responsible for verification of gross mass* | | | |
| | | *SM1 SOLAS verification method 1* | | | |
| | | *SM2 SOLAS verification method 2* | | | |
| X | 1131 | Code list identification code | | C | an..17 |
| X | 3055 | Code list responsible agency code | | C | an..3 |

| | | | | |
|---|---|---|---|---|
| O | 1000 | Document name | C | an..35 |
| | | *Name of a document.* | | |
| O | C503 | DOCUMENT/MESSAGE DETAILS | C 1 | |
| | | Identification of document/message by number, status, source and/or language. | | |
| R | 1004 | Document identifier | C | an..70 |
| | | To identify a document. | | |
| | | Unique identification of documentation: | | |
| | | - in case C002.1001 = SHP, SM1, SM2 define ID for reference. | | |
| | | ~~- in case C002.1001 = DRF refer to documentation with ID~~ | | |
| X | 1373 | Document status code | C | an..3 |
| X | 1366 | Document source description | C | an..70 |
| X | 3453 | Language name code | C | an..3 |
| X | 1056 | Version identifier | C | an..9 |
| X | 1060 | Revision identifier | C | an..6 |
| X | 3153 | COMMUNICATION MEDIUM TYPE CODE | C | an..3 |
| X | 3120 | DOCUMENT COPIES REQUIRED QUANTITY | C | n..2 |
| X | 1218 | DOCUMENT ORIGINALS REQUIRED QUANTITY | C | n..2 |

# X DTM DATE/TIME PERIOD

Segment Function: To specify date, and/or time, or period

Position: 00250
Message Level: Group 7
Segment Repeats: 9
Segment Status: Conditional
Segment Usage: Optional
Sample Segment: DTM+798:201602291235:203'

Clarification: a) specify time when VGM has been ascertained
b) optionally specify date/time when documentation was issued

| | | | | | |
|---|---|---|---|---|---|
| M | C507 | DATE/TIME/PERIOD | | M | |
| | | Date and/or time, or period relevant to the specified date/time/period type. | | | |
| M | 2005 | Date/time/period qualifier | | M | an..3 |
| | | *Code qualifying the function of a date, time or period.* | | | |
| | | *137* | *Document issue date time* | | |
| | | *798* | *Transport equipment verified gross mass ascertained date/time* | | |
| R | 2380 | Date/time/period | | C | an..35 |
| | | The value of a date, a date/time, a time or of a period in a specif. representation. | | | |
| R | 2379 | Date/time/period format qualifier | | C | an..3 |
| | | *203* | *CCYYMMDDHHMM* | | |

## O SEGMENT GROUP 8 - NAD – SG9

Group Function: A group of segments to identify a party and/or addresses and related contacts.

Position: 00260
Group Repeats: 9
Group Status: Conditional
Group Usage: Optional

Clarification: Group for specification of
a) party responsible of SOLAS verified gross mass declaration (SOLAS' shipper)
b) the person authorized to sign VGM documents
c) the weighing party for the method specified in DOC segment
~~d) the party to be referred to for obtaining identified document~~
~~e) the party which had ordered weighing at terminal or weighing station~~
Each party's responsible person might be specified by CTA group

## M NAD NAME AND ADDRESS

Segment Function: To specify the name/address and their related function, either by CO82 only and/or unstructured by CO58 or structured by CO80 thru 3207.

Position: 00270
Message Level: Group 8
Segment Repeats: 1
Segment Status: Mandatory
Segment Usage: Mandatory
Sample Segments:

The company acting as shipper of the packed container is transmitted by:
NAD+SPC+++BEST FRUIT LTD.+LONG STREE 987:P.O. BOX 321123+NEW YORK CITY++10007+US'
The same company's responsible person is transmitted by:
NAD+AM+++PETER SMITH:BEST FRUIT LTD.+LONG STREE 987+NEW YORK CITY++10007+US'
The party which has ascertained the VGM including the country under whose legislation it took place:
NAD+WPA+++A2 WEIGHT LTD+B2 STREET 10:PO BOX 2000+PERTH++6159+AU'

Clarification: Name/address data transmitted in this segment depend on function code
SPC - data about company responsible to verify gross mass according to SOLAS regulations
WPA - data about company which actually has determined VGM
AM - data about person (individual) authorized to sign a document
~~WC - data about company holding documentation according SOLAS VGM regulations~~
~~OB - data about the party which ordered weighing at terminal or weighing station~~

Communication details for the specified company/person can be transmitted in the subsequent CTA group.

NOTE: In context of VGM documentation specification of a party by code is doubtful because the receiving party might not be aware of the used code list. Instead name and address should be specified either as free text in C058 only or more structured in C080 thru 3207.

| | | | | |
|---|---|---|---|---|
| M | 3035 | PARTY QUALIFIER | M | an..3 |

*AM - Person (individual) authorized to sign a document*
~~*OB - Party which ordered weighing at terminal or weighing station*~~
*SPC - Party responsible for obtaining the VGM (in SOLAS named "shipper of packed container")*
~~*WC - Party holding documentation according to SOLAS VGM regulations*~~
*WPA - Party which has ascertained gross mass according to SOLAS method 1 or 2*

| | |
|---|---|
| *AM* | *Authorized official* |
| ~~*OB*~~ | ~~*Ordered by*~~ |
| *SPC* | *SOLAS packed container responsible party* |
| ~~*WC*~~ | ~~*Information reference agency*~~ |
| *WPA* | *Weighting party* |

| | | | | |
|---|---|---|---|---|
| O | C082 | PARTY IDENTIFICATION DETAILS | C | 1 |

Identification of a transaction party by code.
Usage of this composite needs to be agreed be communication partners.
If used then specification of the code list in data element 1131 and 3055 is required.
Example(s)

- ~~GS1 ID: ID::9~~
- EORI ID: ID:EORI:ZZZ
- ~~INTTRA ID: ID:INTTRA:ZZZ~~
- Tax ID: ID:TAX:ZZZ (when NIF or VAT number is provided)

| | | | | |
|---|---|---|---|---|
| M | 3039 | Party id. identification | M | an..35 |

Code specifying the identity of a party.

| | | | | |
|---|---|---|---|---|
| D | 1131 | Code list qualifier | C | an..17 |

Code identifying a user or association maintained code list.
Usage of this data element is required if C082.3055 is transmitted as ZZZ.

| | |
|---|---|
| *EORI* | *EORI number* |
| ~~*INTTRA*~~ | ~~*INTTRA ID*~~ |
| *TAX* | *TAX ID* |

| | | | | |
|---|---|---|---|---|
| R | 3055 | Code list responsible agency, coded | C | an..3 |

Code specifying the agency responsible for a code list.

| | |
|---|---|
| ~~*9*~~ | ~~*GS1*~~ |
| *ZZZ* | *Mutually defined* |

| | | | | |
|---|---|---|---|---|
| X | C058 | NAME AND ADDRESS | C | 1 |
| X | 3124 | Name and address line | M | an..35 |
| X | 3124 | Name and address line | C | an..35 |
| X | 3124 | Name and address line | C | an..35 |
| X | 3124 | Name and address line | C | an..35 |
| X | 3124 | Name and address line | C | n..35 |

| | | | | |
|---|---|---|---|---|
| O | C080 | PARTY NAME | C | 1 |

Identification of a transaction party by name, one line.

| | | | | |
|---|---|---|---|---|
| M | 3036 | Party name | M | 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 | 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 |

| | | | | |
|---|---|---|---|---|
| O | C059 | STREET | C | 1 |

Street address and/or PO Box number in a structured address: one line.

| | | | | |
|---|---|---|---|---|
| M | 3042 | Street and number or post office box id. | M | an..35 |

To identify a street and number and/or Post Office box number.

| | | | | |
|---|---|---|---|---|
| X | 3042 | Street and number or post office box id. | C | an..35 |

To identify a street and number and/or Post Office box number.

| | | | | |
|---|---|---|---|---|
| X | 3042 | Street and number or post office box id. | C | an..35 |

To identify a street and number and/or Post Office box number.

| | | | | |
|---|---|---|---|---|
| X | 3042 | Street and number or post office box id. | C | an..35 |

To identify a street and number and/or Post Office box number.

| | | | | |
|---|---|---|---|---|
| O | 3164 | CITY NAME | C | 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..3 |
| X | 3055 | Code list responsible agency, coded | C | an..3 |
| X | 3228 | Country subdivision name | C | an..70 |
| | | Name of a country subdivision, such as state, canton, county, prefecture. | | |
| O | 3251 | POSTAL IDENTIFICATION CODE | C | an..17 |
| | | Code specifying the postal zone or address. | | |
| O | 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.<br>In some business cases specification of the country in which ascertainment of weight has taken place is required. | | |

# O SEGMENT GROUP 9 - CTA - COM

Group Function: A Group of segments to identify a contact and his communications

Position: 00280
Group repeats: 9
Group status: Conditional
Group Usage: Optional

Clarification: Group for specification of
- contact information and/or signature of a responsible person
- communication contact for party or person

CTA segment with qualifier RP:
- signature

CTA segment with qualifier BN:
- party or person name

COM segment:
- phone, fax, email or physical address of party or person

# M CTA CONTACT INFORMATION

Function: To identify a person or a department to whom communication should be directed.

Position: 00290
Message Level: Group 9
Segment Repeats: 1
Segment Status: Mandatory
Segment Usage: Mandatory
Sample Segment: CTA+RP+:PETER J. SMITH' (signature by name in capital letters)
CTA+BN' (communication contact with details in subsequent COM segment)

Clarification: With function code RP the segment is used for transmission of a signature (person's name in capital letters).

```
R       3139  CONTACT FUNCTION CODE                                    C       an..3
               Code specifying the function of a contact (e.g. department or person).
                       BN      Certification contact
                       RP      (Authorized) responsible person

O       C056  CONTACT DETAILS                                          C  1
               Code and/or name of a contact such as a dept. or employee. Code preferred.
                       Required if 3139=RP
O        3143  Contact identifier                                      C       an..17
               To identify a contact, such as a department or employee.
O        3142  Contact name                                           C       an..35
               Name of a contact, such as a department or employee.
               In case 3139=RP this data element is interpreted as signature (name of
               responsible person in capital letters).
```

# O COM CONTACT COMMUNICATION

| | |
|---|---|
| Function: | To identify a communication number of a department or a person to whom communication should be directed. |
| Position: | 00300 |
| Message Level: | Group 9 |
| Segment Repeats: | 9 |
| Segment Status: | Conditional |
| Segment Usage: | Optional |
| Sample Segment: | COM+?+19731234567:TE' - phone number<br>COM+DISPATCH(A)MODERN-FOOTWEAR.COM:EM' - email address<br>COM+ABC STRASSE 98, 20000 HAMBURG, GERMANX:MA' - physical address |
| Clarification: | Contact address for party or person (according to function qualifier in current CTA group). |

| | | | | | |
|---|---|---|---|---|---|
| M | C076 | COMMUNICATION OF 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. | | | |
| | | *EM* | *Electronic mail* | | |
| | | *FX* | *Telefax* | | |
| | | *MA* | *Mail* | | |
| | | *TE* | *Telephone* | | |

# M UNT MESSAGE TRAILER

| | |
|---|---|
| Segment Function: | To end and check the completeness of a message. |
| Position: | 00310 |
| Message Level: | Summary |
| Segment Repeats: | 1 |
| Segment Status: | Mandatory |
| Segment Usage: | Mandatory |
| Sample Segment: | UNT+28+002408123456’ |
| Clarification: | *The UNT must always be sent.* |

| | | | | |
|---|---|---|---|---|
| M | 0074 | NUMBER OF SEGMENTS IN A MESSAGE | M | n..6 |
| | *Number of segments in the message including UNH and UNT.* | | | |
| M | 0062 | MESSAGE REFERENCE NUMBER | M | an..14 |
| | *Unique message reference assigned by the sender.* | | | |
| | *Same reference as in 0062 in UNH.* | | | |

# DATA SET

Data interchanged in this message:

| Data item | Group | Segment | Element | | VERMAS |
|---|---|---|---|---|---|
| Message date/time | Header | DTM | C507/2005 | "137" | R |
| | Header | DTM | C507/2380 | Message date/time CCYYMMDDHHMM | R |
| | Header | DTM | C507/2379 | "203" | R |
| Reference to a previous message | 1 | RFF | C506/1153 | "ACW" | D |
| | 1 | RFF | C506/1154 | Ref. previous message | D |
| Transport contract document id. | 1 | RFF | C506/1153 | "AAS" | O |
| | 1 | RFF | C506/1154 | Transport contract document identifier | O |
| Declarant's reference number | 1 | RFF | C506/1153 | "ABE" | O |
| | 1 | RFF | C506/1154 | Declarant's reference number | O |
| Sender's reference to the original message | 1 | RFF | C506/1153 | "AGO" | R |
| | 1 | RFF | C506/1154 | Sender's reference to the original message | R |
| Shipping agent | 2 | NAD | 3035 | "CF" | R |
| | 2 | NAD | C082/3039 | NIF/CIF | R |
| | 2 | NAD | C080/3036 | Shipping agent name | O |
| Carrier | 2 | NAD | 3035 | "CA" | O |
| | 2 | NAD | C082/3039 | SCAC code | O |
| | 2 | NAD | C080/3036 | Carrier name | O |
| Submitter | 2 | NAD | 3035 | "TB" | R |
| | 2 | NAD | C082/3039 | NIF/CIF/VAT number | R |
| | 2 | NAD | C080/3036 | Message sender name | O |
| | 2 | NAD | C059/3042 | Street | O |
| | 2 | NAD | 3164 | City name | O |
| | 2 | NAD | 3251 | Postal identification code | O |
| | 2 | NAD | 3207 | Country | O |
| Equipment number | 4 | EQD | 8053 | "CN" | R |
| | 4 | EQD | C237/8260 | Equipment number | O |
| Consignment id., carrier assigned | 4 | RFF | C506/1153 | "BN" | R |
| | 4 | RFF | C506/1154 | Booking number | R |
| SID (Shipper's identifying number for shipment) | 4 | RFF | C506/1153 | "SI" | O |
| | 4 | RFF | C506/1154 | SID (Shipper's identifying number for shipment) | O |
| Equipment sequence number | 4 | RFF | C506/1153 | "SQ" | O |
| | 4 | RFF | C506/1154 | Equipment sequence number | O |
| Transport equipment gross mass verification order reference | 4 | RFF | C506/1153 | "VOR" | O |
| | 4 | RFF | C506/1154 | Transport equipment gross mass verification order reference | O |
| Weighing equipment ID | 4 | RFF | C506/1153 | "AGP" | O |
| | 4 | RFF | C506/1154 | Weighing equipment identification | O |
| Transport unit seal identifier | 4 | SEL | 9308 | Seal | O |
| | 4 | SEL | C215/9303 | Sealing party | O |
| Verified gross mass | 5 | MEA | 6311 | "AAE" | R |
| | 5 | MEA | C502/6313 | "VGM" | R |
| | 5 | MEA | C174/6411 | "KGM" | R |
| | 5 | MEA | C174/6414 | Verified gross mass | R |
| Weight ascertained date/time | 5 | DTM | C507/2005 | "798" | O |
| | 5 | DTM | C507/2380 | Weight ascertained date/time CCYYMMDDHHMM | O |
| | 5 | DTM | C507/2379 | "203" | O |
| Party responsible for verification of gross mass | 7 | DOC | C002/1001 | "SHP" | O |
| | 7 | DOC | C503/1004 | Party responsible for verification of gross mass | O |
| SOLAS verification method 1 | 7 | DOC | C002/1001 | "SM1" | O |

| | | | | | |
|---|---|---|---|---|---|
| | 7 | DOC | C503/1004 | For method 1, reference to the VGM document or certificate | O |
| SOLAS verification method 2 | 7 | DOC | C002/1001 | “SM2” | O |
| | 7 | DOC | C503/1004 | For method 2, reference to the VGM document or certificate | O |
| Party responsible to obtain SOLAS Verified Gross Mass | 8 | NAD | 3035 | “SPC” | O |
| | 8 | NAD | C082/3039 | NIF/CIF | O |
| | 8 | NAD | C080/3036 | Party responsible to obtain SOLAS Verified Gross Mass | O |
| | 9 | CTA | 3139 | “BN” | O |
| | 9 | CTA | C056/3143 | Blank | O |
| | 9 | CTA | C056/3142 | Blank | O |
| | 9 | COM | C076/3148 | Communication address | O |
| Company that has determined the VGM | 8 | NAD | 3035 | “WPA” | O |
| | 8 | NAD | C082/3039 | NIF/CIF | O |
| | 8 | NAD | C080/3036 | Company that has determined the VGM | O |
| | 9 | CTA | 3139 | “BN” | O |
| | 9 | CTA | C056/3143 | Department, coded | O |
| | 9 | CTA | C056/3142 | Department | O |
| | 9 | COM | C076/3148 | Communication address | O |
| Person authorised to sign the document | 8 | NAD | 3035 | “AM” | O |
| | 8 | NAD | C082/3039 | NIF/CIF | O |
| | 8 | NAD | C080/3036 | Person authorised to sign the document | O |
| | 9 | CTA | 3139 | “RP” | O |
| | 9 | CTA | C056/3143 | Blank | O |
| | 9 | CTA | C056/3142 | Signature by authorised person | O |
| | 9 | COM | C076/3148 | Communication address | O |

# USE CASES

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

| No | Sender | Receiver | Use Case Details |
|---|---|---|---|
| 1 | Shipper | Carrier | Shipper has determined the weight himself (Standard process) |
| 8 | Carrier | Terminal | (Standard process) |
| 2 | Shipper | Carrier | 3rd party has weighed, as instructed by the shipper |
| 4 | Weighing Station | Shipper | Shipper had ordered the weighing |
| 5 | Weighing Station | Carrier | Shipper had ordered the weighing and instructed the weighing station to report to the carrier |
| 6 | Terminal | Carrier | If standard procedure at the terminal to weigh each container or a specific order to weigh a container |
| 9 | Carrier | Shipper | Carrier has got knowledge of a weight (e.g. from Terminal) |
| 10 | Carrier | Terminal | Carrier orders the weighing to the terminal |
| 11 | Shipper | Carrier | Shipper orders the weighing to the carrier |
| 12 | Shipper | Weighing Station | Shipper orders the weighing to the weighing station |
| 13 | Carrier | Weighing Station | Carrier orders the weighing to the weighing station |

(The number of the use case is based on the use cases included in the SMDG VERMAS v.0.4 MIG)

## GRAPHICAL REPRESENTATION OF THE USE CASES

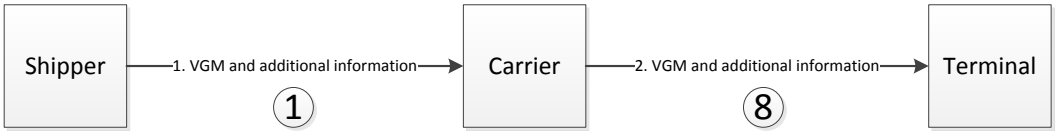



Fig. 1 Standard process

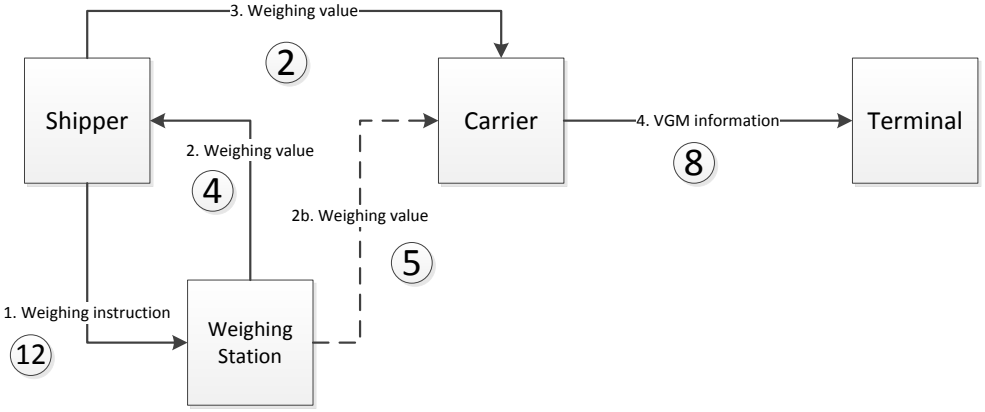



Fig. 2 Shipper orders weighing to a weighing station

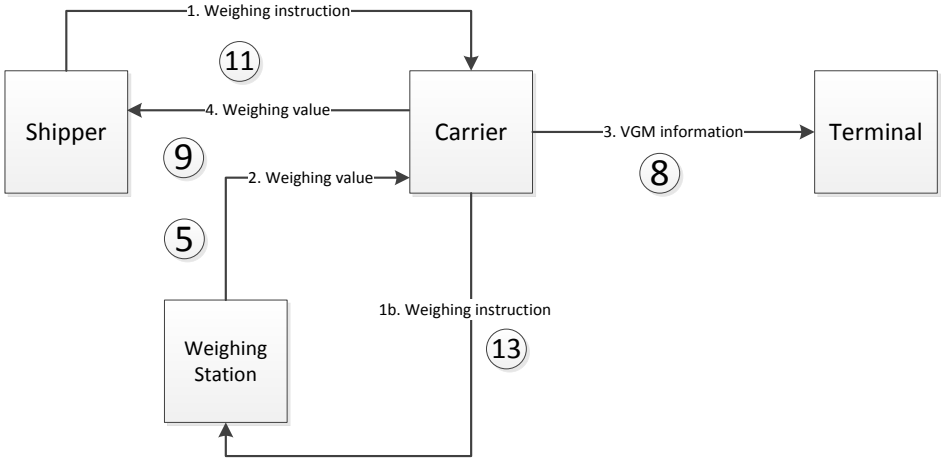



Fig. 3 Carrier orders weighing to a weighing station

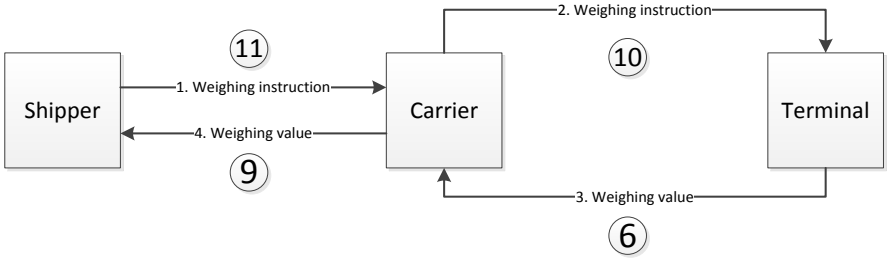



Fig. 4 Carrier orders weighing to the terminal

# INFORMATION USAGE IN EACH USE CASE

| | NL | | Use case | 1 | 2 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | From/To | S-->C | S-->C | W-->S | W-->C | T-->C | C-->T | C-->S | C-->T | S-->C | S-->W | C-->W |
| | | | Message function | 749 | 749 | 749 | 749 | 749 | 749 | 749 | 127 | 127 | 127 | 127 |
| | | | Who weighs | S | 3rd | 3rd | 3rd | T | S/3rd | T/3rd | T | T/3rd | 3rd | 3rd |
| 1 | f | Document issue date time | | M | M | M | M | M | M | M | M | M | M | M |
| 2 | a, (g) | Shipper (the company) as Party Name and Address | | M | M | X | X | X | M | X | C | C | C | C |
| 3 | | Full Name of the Authorized Person (at the Shipper) | | M | M | X | X | X | M | X | X | X | X | X |
| 4 | | Contact details of the Shipper | | C | C | X | X | X | X | X | X | X | X | X |
| 5 | | **Carrier's Booking number** | | M | M | M | M | M | M | M | M | M | M | M |
| 6 | (g) | **Carrier as Party Name and Address (Issuer of the booking)** | | M | M | M | M | M | M | M | M | M | M | M |
| 7 | | Container ID | | M | M | M | M | M | M | M | C | C | C | C |
| 8 | | Container reference number | | C | C | C | C | C | C | C | C | C | C | C |
| 9 | | Seal Number | | C | C | C | C | C | C | C | C | C | C | C |
| 10 | c | Verified Gross Mass Value | | M | M | M | M | M | M | M | X | X | X | X |
| 10b | c | Verified Gross Mass (Set to "0") | | X | X | X | X | X | X | X | M | M | M | M |
| 11 | | Verification Date | | M | M | M | M | M | C | M | X | X | X | X |
| 12 | | Shipper's internal reference | | C | C | C | C | C | C | X | X | C | C | X |
| 13 | d | Method used (1 or 2) | | M | M | M | M | M | C | M | X | X | X | X |
| 14 | | Weighing equipment ID | | C | C | C | C | C | X | C | X | X | X | X |
| 15 | b, (g) | Party (the company) that has ascertained the VGM, Name and Address | | S | 3rd | 3rd | 3rd | T | X | T/3rd | X | X | X | X |
| 16 | | Name of the person who has ascertained the VGM | | S | 3rd | 3rd | 3rd | T | X | T/3rd | X | X | X | X |
| 17 | e | Document issuing party | | M | M | M | M | M | M | M | M | M | M | M |
| 18 | g | Place where document has been issued | | M | M | M | M | M | M | M | M | M | M | M |
| 19 | | Unique reference ID (documentation) | | C | C | M | M | M | C | M | X | X | X | X |
| 20 | | Transport equipment gross mass verification order reference | | X | X | C | C | C | X | C | C | C | C | C |

**Information usage in the use case:**

C: Conditional
M: Mandatory
X: Not used

**From/To:**

S: Shipper
C: Carrier
T: Terminal
3rd: Third party

Exemple: S-->C From shipper to carrier

**NL (national legislation):**

Contenido mínimo de los documentos a que se refiere el número 1 del apartado séptimo de la resolución del Director General de la Marina Mercante (15 de junio de 2016)

| NL | Description |
|---|---|
| a | Nombre y domicilio del expedidor. |
| b | Si la verificación es realizada por un tercero en nombre del expedidor se indicará el nombre y domicilio de uno y otro. |
| c | Masa bruta verificada del contenedor lleno, en kilogramos |
| d | Método de obtención de la masa bruta |
| e | Nombre y firma (se admite la firma electrónica) de la persona física o jurídica que expide el documento. |
| f | Fecha de la expedición del documento. |
| g | Lugar de la expedición del documento. |

**Message function:**

749: Weighing information
127: Weighing order/instruction

**Who weighs:**

S: Shipper

T: Terminal
3rd: Third party

Table with the correlation of the information exchanged and the segments of the VERMAS message where it is declared:

| | NL | Information | VERMAS | VERMAS |
|---|---|---|---|---|
| 1 | **f** | Document issue date time | Message date: DTM+137 | Header |
| 2 | **a, (g)** | Shipper (the company) as Party Name and Address | Company: DOC+SHP; NAD+SPC | Gr.7; Gr.8 |
| 3 | | Full Name of the Authorized Person (at the Shipper) | Person: DOC+SHP; NAD+AM; CTA+RP | Gr.7; Gr.8, Gr.9 |
| 4 | | Contact details of the Shipper | Company: DOC+SHP; NAD+SPC; CTA+BN | Gr.7; Gr.8; Gr.9 |
| 5 | | **Carrier's Booking number** | Booking: RFF+BN | Gr.4 |
| 6 | **(g)** | **Carrier as Party Name and Address (Issuer of the booking)** | Carrier: NAD+CF | Gr.2 |
| 7 | | Container ID | Container: EQD+CN | Gr.4 |
| 8 | | Container reference number | Container: EQD+CN; RFF+SQ | Gr.4 |
| 9 | | Seal Number | Seal: SEL+ | Gr.4 |
| 10 | **c** | Verified Gross Mass Value | VGM: MEA+AAE+VGM | Gr.5 |
| 10b | **c** | Verified Gross Mass (Set to "0") | VGM: MEA+AAE+VGM+KGM:0' | Gr.5 |
| 11 | | Verification Date | Verif.date: DTM+798 | Gr.5 |
| 12 | | Shipper's internal reference | Shipper's ref.: RFF+SI | Gr.4 |
| 13 | **d** | Method used (1 or 2) | Method: DOC+SM1 or DOC+SM2 | Gr.7 |
| 14 | | Weighing equipment ID | Weighing equipment ID: RFF+AGP | Gr.4 |
| 15 | **b, (g)** | Party (the company) that has ascertained the VGM, Name and Address | Company: DOC+SMx; NAD+WPA | Gr.7; Gr.8 |
| 16 | | Name of the person who has ascertained the VGM | Person: DOC+SMx; NAD+AM; CTA+RP | Gr.7; Gr.8, Gr.9 |
| 17 | **e** | Document issuing party | Submitter: NAD+TB | Gr.2 |
| 18 | **g** | Place where document has been issued | Submitter: NAD+TB+ | Gr.2 |
| 19 | | Unique reference ID (documentation) | Weighing ref.: DOC+SMx+reference' | Gr.7 |
| 20 | | Transport equipment gross mass verification order reference | Weighing order ref. RFF+VOR | Gr.4 |

# EXAMPLES

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

### 1. SHIPPER TO CARRIER - THE SHIPPER HAS DETERMINED THE WEIGHT HIMSELF USING METHOD 1 OR 2

EXAMPLE OF USE CASE 1

Shipper has already obtained VGM by himself and sends full VGM documentation to the carrier.

| | |
|---|---|
| UNH+002408123456+VERMAS:D:16A:UN:SMDG10' | |
| BGM+749+B002408123456+9' | |
| DTM+137:201609231537:203' | Document issue date and time |
| RFF+AGO:002408000006' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08999999++SHIPPER SA+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Submitter |
| NAD+CA+XYZ++XYZ CARRIER' | Carrier |
| EQD+CN+HLXU9876543+42G1' | Container ID and type |
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| SEL+ZYX234+SH' | Seal number |
| MEA+AAE+VGM+KGM:21548' | Verified gross mass |
| DTM+798:201508151527:203' | Local time when VGM was obtained |
| DOC+SHP+SHP-DOC-ID-10000' | Shipper's VGM declaration with ID |
| NAD+SPC+++SHIPPER SA+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Shipper's company name and address |
| CTA+BN+SHIPPER SA DESPATCH DEPT' | Shipper's VGM contact reference |
| COM+VGM(A)SHIPPER.COM:EM' | e-mail contact |
| COM+?+34-939999999:TE' | Phone contact |
| NAD+AM+++JOHN P. SMITH+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Shipper's authorized person |
| CTA+RP+: JOHN P. SMITH' | Signature by authorized person |
| DOC+SM1' | Method 1 <u>without certificate ID</u> |
| NAD+WPA+++SHIPPER SA+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Weighing comp. name and address |
| CTA+BN+SHIPPER SA DESPATCH DEPT' | Weighing comp. contact reference |
| COM+VGM(A)SHIPPER.COM:EM' | e-mail contact |
| COM+?+34-939999999:TE' | Phone contact |
| NAD+AM+++JOSE PEREZ+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Weighing party's authorized person |
| CTA+RP+:JOSE PEREZ' | Signature by authorized person |
| UNT+28+002408123456' | |

### 8. CARRIER TO TERMINAL – STANDARD INFORMATION CHANNEL

EXAMPLE OF USE CASE 8

8.1 From carrier to terminal, standard process. No details about VGM documentation are transmitted. Only a reference to the documentation is provided.

Carrier to terminal – without detailed VGM documentation

| | |
|---|---|
| UNH+007708123477+VERMAS:D:16A:UN:SMDG10' | |
| BGM+749+B007708123477+9' | |
| DTM+137:201609231622:203' | Document issue date and time |
| RFF+AGO:007708000077' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08123456++CONSIGNATARIO SA+MOLL DE BARCELONA S/N+BARCELONA++08039+ES' | Submitter |
| EQD+CN+HLXU9876543+42G1' | Container ID and type |
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| SEL+ZYX234+SH' | Seal number |
| MEA+AAE+VGM+KGM:21548' | Verified gross mass |
| DTM+798:201508151527:203' | Local time when VGM was obtained |
| DOC+SM1' | Method 1 (optional) without certificate ID |
| NAD+SPC+++SHIPPER SA+CARRER DE NINGBO S/N+BARCELONA++08040+ES' | Shipper's company name and address |
| CTA+BN+SHIPPER SA DESPATCH DEPT' | Shipper's VGM contact reference |
| COM+VGM(A)SHIPPER.COM:EM' | e-mail contact |
| COM+?+34-939999999:TE' | Phone contact |
| UNT+18+007708123477' | |

8.2 From carrier to terminal, receiver is obliged to accept VGM declarations only when signed and/or country under whose legislation verification took place are specified. This information is transmitted in addition to the VGM documentation reference without disclosing party details of ~~shipper and party~~ who obtained VGM (according to method 2 in the example).

Carrier to terminal – with demanded VGM documentation

| | |
|---|---|
| UNH+007708123477+VERMAS:D:16A:UN:SMDG10' | |
| BGM+749+B007708123477+9' | |
| DTM+137:201609231622:203' | Document issue date and time |
| RFF+AGO:007708000077' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08123456++CONSIGNATARIO SA+MOLL DE BARCELONA S/N+BARCELONA++08039+ES' | Submitter |
| EQD+CN+HLXU9876543+42G1' | Container ID and type |
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| SEL+ZYX234+SH' | Seal number |
| MEA+AAE+VGM+KGM:21548' | Verified gross mass |
| DTM+798:201508151527:203' | Local time when VGM was obtained |
| DOC+SHP+SHP-DOC-ID-10000' | Shipper's VGM declaration with ID |
| NAD+SPC+++SHIPPER SA+CARRER DE NINGBO S/N+BARCELONA++08040+ES' | Shipper's company name and address |
| CTA+BN+SHIPPER SA DESPATCH DEPT' | Shipper's VGM contact reference |
| COM+VGM(A)SHIPPER.COM:EM' | e-mail contact |
| COM+?+34-939999999:TE' | Phone contact |
| NAD+AM+++JOHN P. SMITH' | Shipper's authorized person |
| CTA+RP+: JOHN P. SMITH' | Signature by authorized person |
| DOC+SM2' | Method 2 (optional) without certificate ID |
| UNT+21+007708123477' | |

Address information from ~~shipper and~~ weighing party is ~~are~~ not disclosed. ~~Only the signature and country are transmitted~~. By transmission of the signature the sender indicates that the document has been signed by an authorized person.

## 2. SHIPPER TO CARRIER - 3RD PARTY HAS WEIGHED, AS INSTRUCTED BY THE SHIPPER USING METHOD 1 OR 2

### EXAMPLE OF USE CASE 2

From shipper to carrier, actual ascertainment of VGM has been done by 3rd party in a different country.

| | |
|---|---|
| UNH+002408123456+VERMAS:D:16A:UN:SMDG10' | |
| BGM+749+B002408123456+9' | |
| DTM+137:201609231537:203' | Document issue date and time |
| RFF+AGO:002408000006' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08999999++SHIPPER SA+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Submitter |
| NAD+CA+XYZ++XYZ CARRIER' | Carrier |
| EQD+CN+HLXU9876543+42G1' | Container ID and type |
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| SEL+ZYX234+SH' | Seal number |
| MEA+AAE+VGM+KGM:21548' | Verified gross mass |
| DTM+798:201508151527:203' | Local time when VGM was obtained |
| DOC+SHP+SHP-DOC-ID-10000' | Shipper's VGM declaration with ID |
| NAD+SPC+++SHIPPER SA+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Shipper's company name and address |
| CTA+BN+SHIPPER SA DESPATCH DEPT' | Shipper's VGM contact reference |
| COM+VGM(A)SHIPPER.COM:EM' | e-mail contact |
| COM+?+34-939999999:TE' | Phone contact |
| NAD+AM+++JOHN P. SMITH+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Shipper's authorized person |
| CTA+RP+: JOHN P. SMITH' | Signature by authorized person |
| DOC+SM1+SM1-BY 3RD-DOC-ID123456' | Method 1 with certificate ID |
| NAD+WPA+++BAS-OFI-ABC+CARRER B+BARCELONA++08039+ES' | Weighing comp. name and address |
| CTA+BN+WEIGHING DEPT' | Weighing comp. contact reference |
| COM+VGM(A)BAS-OFI-ABC.COM:EM' | e-mail contact |
| COM+?+34-938888888:TE' | Phone contact |
| NAD+AM+++JORGE SUAREZ+CARRER B+BARCELONA++08039+ES' | Weighing party's authorized person |
| CTA+RP+: JORGE SUAREZ' | Signature by authorized person |
| UNT+28+002408123456' | |

## 4. WEIGHING STATION TO THE SHIPPER – THE SHIPPER HAD ORDERED THE WEIGHING AT THE WEIGHING FACILITY

### EXAMPLE OF USE CASE 4

From inland weighing station to shipper. No VGM information about shipper transmitted because he is the receiver.

| | |
|---|---|
| UNH+0524081200001+VERMAS:D:16A:UN:SMDG10' | |
| BGM+749+W0524081200001+9' | |
| DTM+137:201609231537:203' | Document issue date and time |
| RFF+AGO:002408000006' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08555555++BAS-OFI-ABC+CARRER B+BARCELONA ++08039+ES' | Submitter |
| EQD+CN+HLXU9876543+42G1' | Container ID and type |

| | |
|---|---|
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| RFF+VOR+SHAG00345' | VGM order reference |
| SEL+ZYX234+SH' | Seal number |
| MEA+AAE+VGM+KGM:21548' | Verified gross mass |
| DTM+798: 201609231337:203' | Local time when VGM was obtained |
| DOC+SM1+SM1-BY 3RD-DOC-ID123456' | Method 1 certificate with ID |
| NAD+WPA+++BAS-OFI-ABC+CARRER B+BARCELONA++08039+ES' | Weighing comp. name and address |
| CTA+BN+WEIGHING DEPT' | Weighing comp. contact reference |
| COM+VGM(A)BAS-OFI-ABC.COM:EM' | e-mail contact |
| COM+?+34-938888888:TE' | Phone contact |
| NAD+AM+++JORGE SUAREZ+CARRER B+BARCELONA++08039+ES' | Weighing party's authorized person |
| CTA+RP+: JORGE SUAREZ' | Signature by authorized person |
| UNT+21+0524081200001' | |

Note: The VGM certificate was issued 2 hours later than actual ascertainment.

## 5. WEIGHING STATION TO THE CARRIER – SHIPPER HAD ORDERED THE WEIGHING AND INSTRUCTED THE WEIGHING STATION TO REPORT DIRECTLY TO THE CARRIER

Shipper has agreed with the Carrier that the weight reported by the weighing station shall be considered as the VGM. The weighing station could for example be located at an inland terminal or at an ocean terminal or along the road.

### EXAMPLE OF USE CASE 5

From inland weighing station to carrier. No VGM information about shipper transmitted. Except for message envelope, the message is identical as the use-case-4 VERMAS transmitted to shipper.

| | |
|---|---|
| UNH+0524081200001+VERMAS:D:16A:UN:SMDG10' | |
| BGM+749+W0524081200001+9' | |
| DTM+137:201609231537:203' | Document issue date and time |
| RFF+AGO:002408000006' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08555555++BAS-OFI-ABC+CARRER B+BARCELONA ++08039+ES' | Submitter |
| EQD+CN+HLXU9876543+42G1' | Container ID and type |
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| RFF+VOR+SHAG00345' | VGM order reference |
| SEL+ZYX234+SH' | Seal number |
| MEA+AAE+VGM+KGM:21548' | Verified gross mass |
| DTM+798: 201609231337:203' | Local time when VGM was obtained |
| DOC+SM1+SM1-BY 3RD-DOC-ID123456' | Method 1 certificate with ID |
| NAD+WPA+++BAS-OFI-ABC+CARRER B+BARCELONA++08039+ES' | Weighing comp. name and address |
| CTA+BN+WEIGHING DEPT' | Weighing comp. contact reference |
| COM+VGM(A)BAS-OFI-ABC.COM:EM' | e-mail contact |
| COM+?+34-938888888:TE' | Phone contact |
| NAD+AM+++JORGE SUAREZ+CARRER B+BARCELONA++08039+ES' | Weighing party's authorized person |
| CTA+RP+: JORGE SUAREZ' | Signature by authorized person |
| UNT+21+0524081200001' | |

### 6. TERMINAL TO THE CARRIER – IF STANDARD PROCEDURE AT THE TERMINAL TO WEIGH EACH CONTAINER OR AN INSTRUCTION TO WEIGH A SPECIFIC CONTAINER

For a terminal where each container is weighed upon entering the gate or has the instructions to weigh a specific container.

EXAMPLE OF USE CASE 6

From terminal to carrier, terminal had received weighing order from carrier or shipper.

| | |
|---|---|
| UNH+0999081200001+VERMAS:D:16A:UN:SMDG10' | |
| BGM+749+T0111081200001+9' | |
| DTM+137:201609231537:203' | Document issue date and time |
| RFF+AGO:002408000006' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+B08000000++TERM BCN+MOLL BCN+BARCELONA ++08039+ES' | Submitter |
| EQD+CN+HLXU9876543+42G1' | Container ID and type |
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| RFF+VOR+SHAG00345' | VGM order reference |
| SEL+ZYX234+SH' | Seal number |
| MEA+AAE+VGM+KGM:21548' | Verified gross mass |
| DTM+798: 201609231337:203' | Local time when VGM was obtained |
| DOC+SM1+SM1-BY 3RD-DOC-ID123456' | Method 1 certificate with ID |
| NAD+WPA+++TERM BCN+MOLL BCN+BARCELONA++08039+ES' | Weighing comp. name and address |
| CTA+BN+WEIGHING DEPT' | Weighing comp. contact reference |
| COM+VGM(A)TERM-BCN.COM:EM' | e-mail contact |
| COM+?+34-934444444:TE' | Phone contact |
| NAD+AM+++JOSEP JUNIOR+ MOLL BCN+BARCELONA++08039+ES' | Weighing party's authorized person |
| CTA+RP+: JOSEP JUNIOR' | Signature by authorized person |
| UNT+21+0999081200001' | |

### 9. CARRIER TO THE SHIPPER – CARRIER HAS GOT KNOWLEDGE OF A WEIGHT (E.G. FROM TERMINAL) THAT HE FORWARDS TO THE SHIPPER

Shipper needs to be informed of the weight that was ascertained for his container.

EXAMPLE OF USE CASE 9

From carrier to shipper, carrier informs shipper about new VGM information received from terminal or a weighing third party.

| | |
|---|---|
| UNH+007708123478+VERMAS:D:16A:UN:SMDG10' | |
| BGM+749+B007708123478+9' | |
| DTM+137:201609231537:203' | Document issue date and time |
| RFF+AGO:002408000006' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08123456++CONSIGNATARIO SA+MOLL DE BARCELONA S/N+BARCELONA++08039+ES' | Submitter |
| EQD+CN+HLXU9876543+42G1' | Container ID and type |

| | |
|---|---|
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| RFF+VOR+SHAG00345' | VGM order reference |
| SEL+ZYX234+SH' | Seal number |
| MEA+AAE+VGM+KGM:21548' | Verified gross mass |
| DTM+798: 201609231337:203' | Local time when VGM was obtained |
| DOC+SM1+SM1-BY 3RD-DOC-ID123456' | Method 1 certificate with ID |
| NAD+WPA+++TERM BCN+MOLL BCN+BARCELONA++08039+ES' | Weighing comp. name and address |
| CTA+BN+WEIGHING DEPT' | Weighing comp. contact reference |
| COM+VGM(A)TERM-BCN.COM:EM' | e-mail contact |
| COM+?+34-934444444:TE' | Phone contact |
| NAD+AM+++JOSEP JUNIOR+ MOLL BCN+BARCELONA++08039+ES' | Weighing party's authorized person |
| CTA+RP+: JOSEP JUNIOR' | Signature by authorized person |
| UNT+21+007708123478' | |

## 10. CARRIER TO TERMINAL – CARRIER ORDERS THE WEIGHING TO THE TERMINAL (PARTICULAR USE CASE FOR THE PORT OF BARCELONA)

Terminal is instructed to weight the container.

### EXAMPLE OF USE CASE 10

From carrier to terminal, carrier orders the weighing to the terminal.
A reference to the weighing instruction can be provided.

| | |
|---|---|
| UNH+007708123479+VERMAS:D:16A:UN:SMDG10' | |
| BGM+127+B007708123477+9' | Weighing instruction |
| DTM+137:201609231622:203' | Document issue date and time |
| RFF+AGO:007708000077' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08123456++CONSIGNATARIO SA+MOLL DE BARCELONA S/N+BARCELONA++08039+ES' | Submitter |
| EQD+CN++45G1' | Container ID and type (container number is still unknown) |
| RFF+SQ:40HCREF00102' | Container reference number (instead of container number) |
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| RFF+VOR+SHAG-160004' | Weighing order reference |
| MEA+AAE+VGM+KGM:0' | Verified gross mass set to 0 |
| UNT+13+007708123479' | |

## 11. SHIPPER TO CARRIER – SHIPPER ORDERS THE WEIGHING TO THE CARRIER (PARTICULAR USE CASE FOR THE PORT OF BARCELONA)

Carrier is instructed to weight the container.

### EXAMPLE OF USE CASE 11

From shipper to carrier, shipper orders the weighing to the carrier. A reference to the weighing instruction can be provided.

UNH+002408123459+VERMAS:D:16A:UN:SMDG10'
BGM+127+B002408123459+9'

| | |
|---|---|
| DTM+137:201609231537:203' | Document issue date and time |
| RFF+AGO:002408000006' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08999999++SHIPPER SA+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Submitter |
| EQD+CN++42G1' | Container ID and type (container ID still is unknown) |
| RFF+SQ+REF123456' | Container reference ID |
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| RFF+VOR+SHAG-160004' | Weighing order reference |
| MEA+AAE+VGM+KGM:0' | Verified gross mass set to 0 |
| UNT+13+002408123459 ' | |

## 12. SHIPPER TO WEIGHING STATION – SHIPPER ORDERS THE WEIGHING TO A WEIGHING STATION (PARTICULAR USE CASE FOR THE PORT OF BARCELONA)

The weighing station is instructed to weight the container.

### EXAMPLE OF USE CASE 12

From shipper to weighing station, shipper orders the weighing to the weighing station.
A reference to the weighing instruction can be provided.

| | |
|---|---|
| UNH+002408123460+VERMAS:D:16A:UN:SMDG10' | |
| BGM+127+B002408123459+9' | |
| DTM+137:201609231537:203' | Document issue date and time |
| RFF+AGO:002408000006' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08999999++SHIPPER SA+CARRER DE NINGBO S/N+ BARCELONA++08040+ES' | Submitter |
| EQD+CN+HLXU9876543+42G1' | Container ID and type |
| RFF+BN:112233-ABC' | Booking number |
| RFF+SI+A456C' | Shipper's internal ID |
| RFF+VOR+SHAG-160004' | Weighing order reference |
| MEA+AAE+VGM+KGM:0' | Verified gross mass set to 0 |
| UNT+12+002408123460 ' | |

## 13. CARRIER TO WEIGHING STATION – CARRIER ORDERS THE WEIGHING TO A WEIGHING STATION (PARTICULAR USE CASE FOR THE PORT OF BARCELONA)

The weighing station is instructed to weight the container.

### EXAMPLE OF USE CASE 13

From carrier to weighing station, carrier orders the weighing to the weighing station.
A reference to the weighing instruction can be provided.

| | |
|---|---|
| UNH+007708123444+VERMAS:D:16A:UN:SMDG10' | |
| BGM+127+B007708123477+9' | |
| DTM+137:201609231622:203' | Document issue date and time |
| RFF+AGO:007708000077' | Sender's reference to the original message |
| NAD+CF+A08123456++CONSIGNATARIO SA' | Shipping agent |
| NAD+TB+A08123456++CONSIGNATARIO SA+MOLL DE BARCELONA | |

| | |
|---|---|
| S/N+BARCELONA++08039+ES’ | Submitter |
| EQD+CN+HLXU9876543+42G1‘ | Container ID and type |
| RFF+BN:112233-ABC’ | Booking number |
| RFF+SI+A456C‘ | Shipper’s internal ID |
| RFF+VOR+SHAG-160004‘ | Weighing order reference |
| MEA+AAE+VGM+KGM:0‘ | Verified gross mass set to 0 |
| UNT+12+007708123444 ‘ | |

# DOCUMENT MAINTENANCE

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

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

Fòrum telemàtic Secretariat
Port of Barcelona
World Trade Center Barcelona
08039 Barcelona SPAIN

E-mail: forum.telematic@portdebarcelona.cat