



USER MANUAL
(Implementation Guide)

UN/EDIFACT MESSAGE

VERMAS

Version 0.4

D.16A

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1 Introduction

This specification provides the definition of the Verified Gross Mass message (VERMAS) to be used in Electronic Data Interchange (EDI) between trading partners involved in administration, commerce and transport.

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. Section 4.4 is intended as informal overview of the message structure and the usage of its components. Sections 4.6 and 4.7 provide notes about the transmission of signatures.

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 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.

2.2 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.

2.3 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.

2.4 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.

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.16A. (currently 15A)**

Data transmission is preferably takes place in coded form. D.16A 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: 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 0.4

- Added sections providing an overview on message structure and usage of its elements.
- Added sections on signatures and how to transmit a signature without revealing party's identity.

3.3.2 Version 0.3

- Added introduction and scope
- Complete section Use Cases and Examples

3.3.3 Version 0.2

- 25th Oct. 2015
- No major changes, mainly improvements in description
- Overworking MIG document; sections adapted to VERMAS. Chapter "use case and examples" still to be overworked.

3.3.4 Version 0.1

- Initial version presented at 66th SMDG meeting in Malta.
- The MIG was rather a copy of the BAPLIE3.1 MIG, with only Edisim output replaced.

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 4.5 Message 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 VERMAS.

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 VERMAS shall comply with the guidelines given in this chapter.

If section 4.5 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.

The following sections provide a lot of examples showing sequences of segments to be used. For better readability segments are shown in a separate line each. Edifact interchanges do not foresee line separation. Thus in an actual message segments are to be concatenated. Each segment's terminating character ` (apostrophe) is immediately to be followed by the first character of next segment's tag.

4.3 VERMAS 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 VERMAS message only.

The interchange encloses the VERMAS 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 VERMAS. (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 VERMAS requires this release function to be implemented for sending and processing of interchanges.

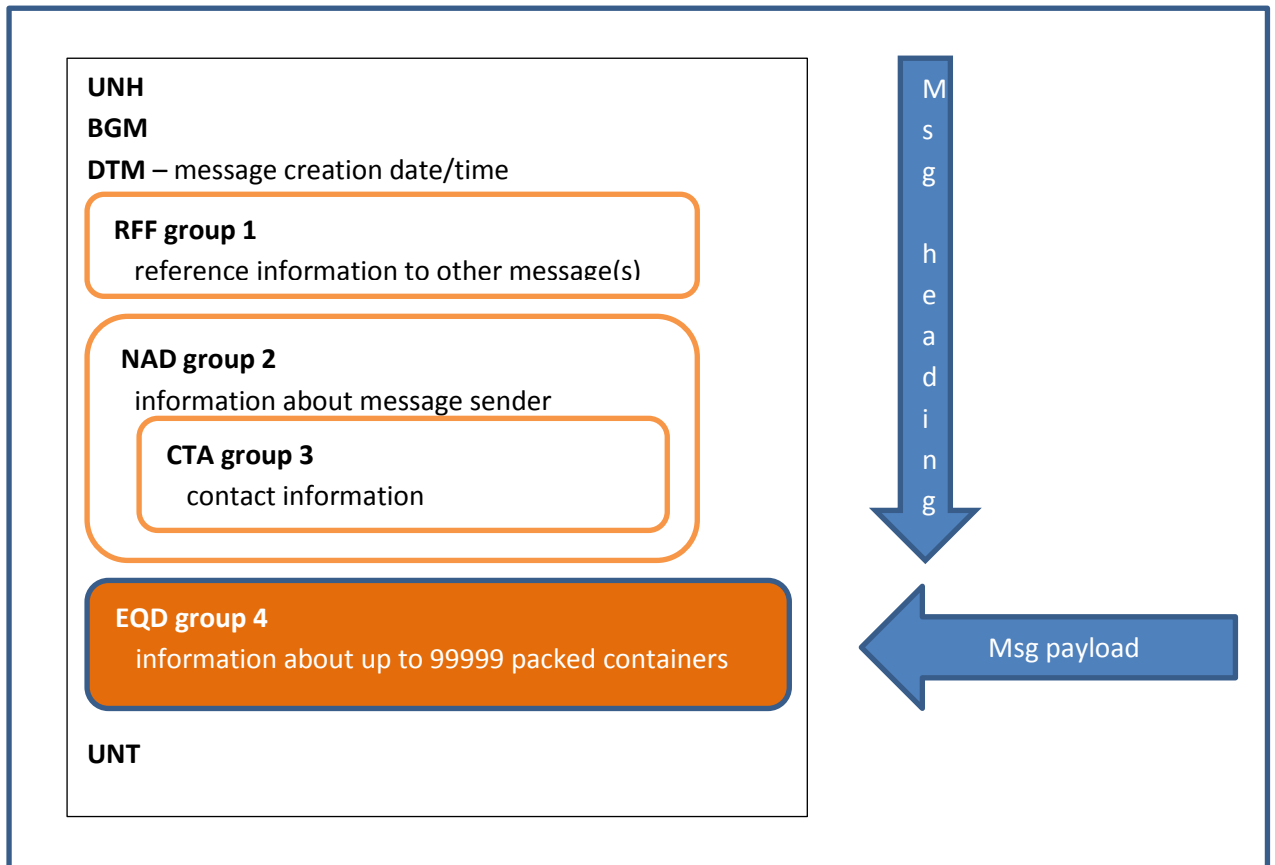


Officially, EDIFACT interchanges do not allow for line separators. For improvement of human readability, sometimes line separators are inserted after each segment. Also this document puts segments on separate lines in the below examples. Although line separators might be useful for internal purposes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

4.4 VERMAS Message Structure

This section is intended as overview of VERMAS' structural components and how they are meant to be used.

VERMAS Message



For each container one **EQD group 4** is transmitted:

EQD – container description by size-type and ID

RFF – booking reference(s)

LOC – locations in container's transport chain

SEL – seal number(s)

MEA group 5

gross mass, whether it is verified or not and optionally date/time when VGM was obtained

TDT group 6

optional vessel/voyage information

DOC group 7

VGM documentation of various kind distinguished by DOC segment's qualifier

Currently 4 kinds of VGM documentation are distinguished

- DRF – reference to container's VGM documentation
(Documentation is not transmitted in this message, but is available at the party specified in this DOC-group.)
- SHP – documentation related to the party responsible to obtain SOLAS VGM
- SM1 – documentation about SOLAS Method 1
- SM2 – documentation about SOLAS Method 2

Information about VGM documentation of any kind is transmitted in DOC group 7 elements

DOC –documentation function and ID

DTM –date/time when VGM was obtained or when documentation was issued

NAD group 8

Name/address of party or responsible person

CTA group 9

contact information or signature



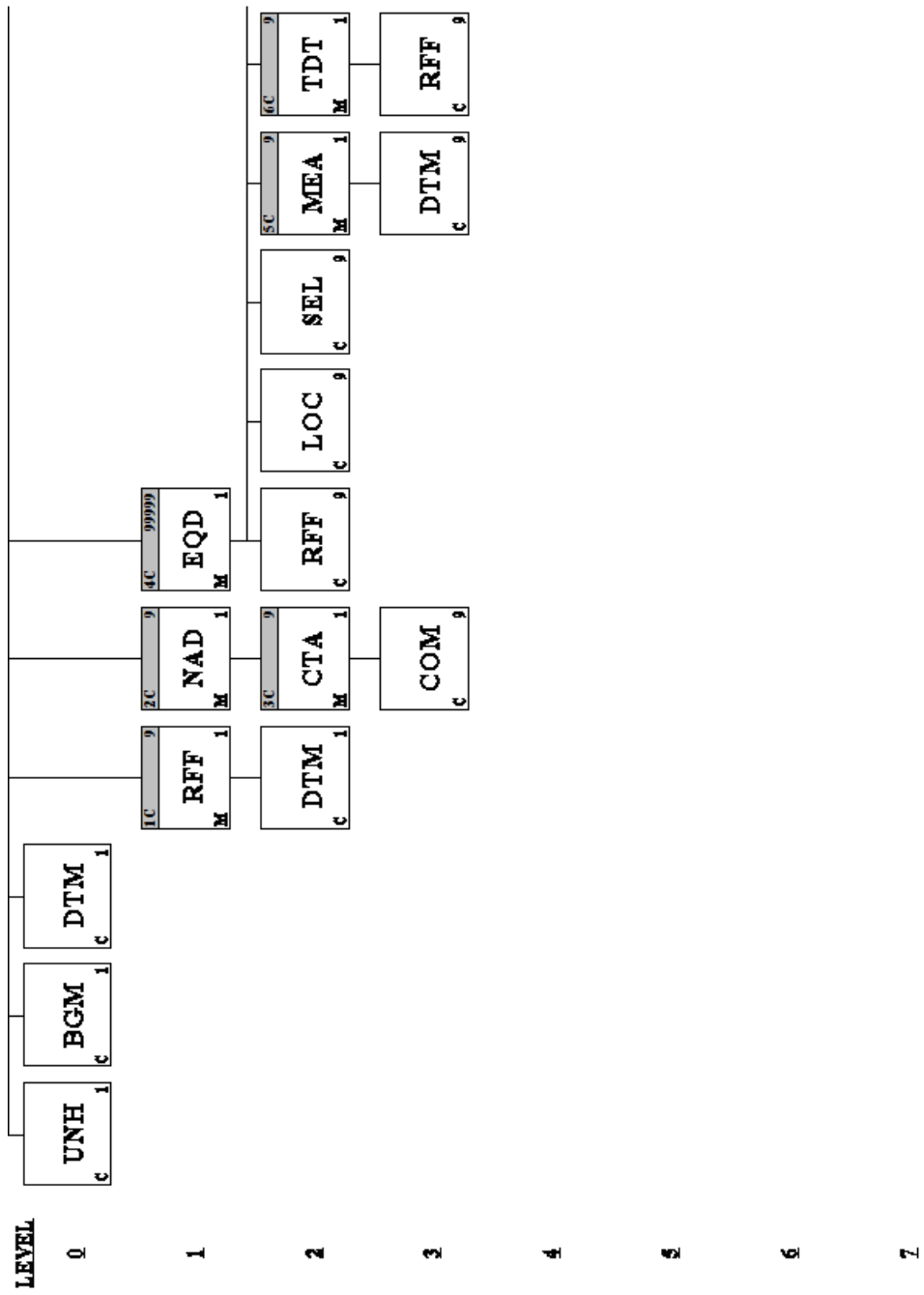
4.5 Message Implementation Reference

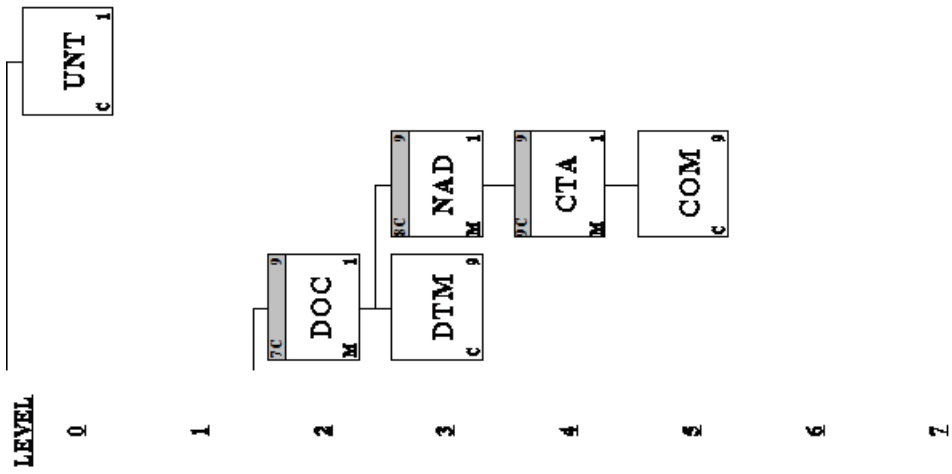
VERMAS Verified Gross Mass

Introduction:

draft

<u>MIG Usage</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Directory Usage</u>	<u>Max.Use</u>	<u>Group Repeat</u>
O	00010	UNH	Message Header	C	1	
O	00020	BGM	Beginning of Message	C	1	
O	00030	DTM	Date/Time/Period	C	1	
O	00040		Segment Group 1: RFF-DTM	C		9
M	00050	RFF	Reference	M	1	
O	00060	DTM	Date/Time/Period	C	1	
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	
O	00120		Segment Group 4: EQD-RFF-LOC-SEL-SG5-SG6-SG7	C		99999
M	00130	EQD	Equipment Details	M	1	
O	00140	RFF	Reference	C	9	
O	00150	LOC	Place/Location Identification	C	9	
O	00160	SEL	Seal Number	C	9	
O	00170		Segment Group 5: MEA-DTM	C		9
M	00180	MEA	Measurements	M	1	
D	00190	DTM	Date/Time/Period	C	9	
O	00200		Segment Group 6: TDT-RFF	C		9
M	00210	TDT	Transport Information	M	1	
O	00220	RFF	Reference	C	9	
O	00230		Segment Group 7: DOC-DTM-SG8	C		9
M	00240	DOC	Document/Message Details	M	1	
O	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	
O	00310	UNT	Message Trailer	C	1	





Segment: UNH Message Header
Position: 00010
Group:
Level: 0
Usage: Conditional (Optional)
Max Use: 1
Purpose: To head, identify and specify a Message
Notes: **Example (s) :**
 UNH+VERMAS ID+VERMAS :D:16A:UN:SMDG04 '

Data Element Summary

User	Data	Component		
<u>Attribute</u>	<u>Element</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	0062		MESSAGE REFERENCE NUMBER Unique message reference assigned by the sender.	M 1 an..14
M	S009		MESSAGE IDENTIFIER Identification of the type, version etc. of the message being interchanged.	M 1
M		0065	Message type identifier Code identifying a type of message and assigned by its controlling agency. <i>VERMAS SOLAS verified gross mass</i>	M an..6
M		0052	Message type version number Version number of a message type. <i>D Draft version/UN/EDIFACT Directory</i>	M an..3
M		0054	Message type release number Release number within the current message type version number (0052). <i>16A Release 2016 - a</i>	M an..3
M		0051	Controlling agency Code identifying the agency controlling the specification, maintenance and publication of the message type. <i>UN UN/CEFACT</i>	M an..2
O		0057	Association assigned code Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message.	C an..6
O	0068		COMMON ACCESS REFERENCE Reference serving as a key to relate all subsequent transfers of data to the same business case or file.	C 1 an..35
O	S010		STATUS OF THE TRANSFER Statement that the message is one in a sequence of transfers relating to the same topic.	C 1
M		0070	Sequence message transfer number Number assigned by the sender indicating that the message is an addition or change of a previously sent message relating to the same topic.	M n..2
O		0073	First/last sequence message transfer indication 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.	C a1

Segment: **BGM** Beginning of Message
Position: 00020
Group:
Level: 0
Usage: Conditional (Optional)
Max Use: 1
Purpose: To indicate the type and function of a message and to transmit the identifying number.
Notes: **Example (s) :**
 BGM+XXX++++39'

Data Element Summary

User Attribute	Data Element	Component Element	Name	Attributes
O	C002		DOCUMENT/MESSAGE NAME	C 1
			Identification of a type of document/message by code or name. Code preferred.	
O		1001	Document name code	C an..3
			Code specifying the document name.	
			code XXX not yet confirmed by UN/CEFACT	
			XXX Documentation about SOLAS Verified Gross Mass	
O		1131	Code list identification code	C an..17
			Code identifying a user or association maintained code list.	
O		3055	Code list responsible agency code	C an..3
			Code specifying the agency responsible for a code list.	
			Refer to D.13B Data Element Dictionary for acceptable code values.	
O		1000	Document name	C an..35
			Name of a document.	
O	C106		DOCUMENT/MESSAGE IDENTIFICATION	C 1
			Identification of a document/message by its number and eventually its version or revision.	
O		1004	Document identifier	C an..70
			To identify a document.	
			Repetition of message identifier as specified by UNH.0062	
O		1056	Version identifier	C an..9
			To identify a version.	
O		1060	Revision identifier	C an..6
			To identify a revision.	
O	1225		MESSAGE FUNCTION CODE	C 1 an..3
			Code indicating the function of the message.	
			1 Cancellation	
			5 Replace	
			9 Original	
O	4343		RESPONSE TYPE CODE	C 1 an..3
			Code specifying the type of acknowledgment required or transmitted.	
			Refer to D.13B Data Element Dictionary for acceptable code values.	
O	1373		DOCUMENT STATUS CODE	C 1 an..3
			Code specifying the status of a document.	
			Refer to D.13B Data Element Dictionary for acceptable code values.	
O	3453		LANGUAGE NAME CODE	C 1 an..3
			Code specifying the language name.	

Segment: **DTM** Date/Time/Period
Position: 00030
Group:
Level: 0
Usage: Conditional (Optional)
Max Use: 1
Purpose: To specify date, and/or time, or period.
Notes: **Example (s) :**
 DTM+137:201509231537:203 '
 DTM+137:201509131737CST:303 '

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Name</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Element</u>	<u>Element</u>		
M	C507		DATE/TIME/PERIOD 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 1
M		2005	Date or time or period function code qualifier Code qualifying the function of a date, time or period. <i>137 Document issue date time</i>	M an..3
O		2380	Date or time or period text The value of a date, a date and time, a time or of a period in a specified representation.	C an..35
O		2379	Date or time or period format code Code specifying the representation of a date, time or period. <i>203 CCYYMMDDHHMM</i> <i>303 CCYYMMDDHHMMZZZ</i>	C an..3



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

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

Segment: **RFF** Reference
Position: 00050 (Trigger Segment)
Group: Segment Group 1 (Reference) Conditional (Optional)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: To specify a reference.
Notes: **Example (s) :**
 RFF+SI : T/HL007543 '

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Element</u>	<u>Element</u> <u>Name</u>	<u>1</u>
M	C506	REFERENCE Identification of a reference.	M 1
M		1153 Reference code qualifier Code qualifying a reference. AAS <i>Transport contract document identifier</i> ABE <i>Declarant's reference number</i> ACW <i>Reference number to previous message</i> AFB <i>Cargo manifest number</i> AGO <i>Sender's reference to the original message</i> MS <i>Message sender</i> SI <i>SID (Shipper's identifying number for shipment)</i>	M an..3
O		1154 Reference identifier Identifies a reference.	C an..70
O		1156 Document line identifier To identify a line of a document.	C an..6
O		1056 Version identifier To identify a version.	C an..9
O		1060 Revision identifier To identify a revision.	C an..6

Segment: **DTM** Date/Time/Period
Position: 00060
Group: Segment Group 1 (Reference) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 1
Purpose: To specify date, and/or time, or period.
Notes: **Example (s) :**
 DTM+171:201509160823:203 '

Data Element Summary

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



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.

Segment Summary

<u>User</u> <u>Attribute</u>	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.</u> <u>Use</u>	<u>Group:</u> <u>Repeat</u>
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: To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207.

Notes: **It is recommended to transmit name/address data in structured form by C080 through 3207. Transmission in coded form in C082 requires agreement between communication partners.**

Example (s) :

Message sent by terminal:

NAD+TR+DBF:TERMINALS:306'

Message sent by weighing station:

NAD+WPA+++QTW LTD+EAST STREET 107+MYTOWN++456A23+JP'

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Name</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Element</u>	<u>Element</u>		
M	3035		PARTY FUNCTION CODE QUALIFIER Code giving specific meaning to a party. code SPC is not yet confirmed by UN/CEFACT	M 1 an..3
			<i>CF</i> Container operator/lessee	
			<i>CZ</i> Consignor	
			<i>DEI</i> Means of transport operator	
			<i>GF</i> Slot charter party	
			<i>PQ</i> Certifying party	
			<i>SPC</i> Party responsible to obtain SOLAS Verified Gross Mass	
			<i>TR</i> Terminal operator	
			<i>WPA</i> Weighting party	
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
O		1131	Code list identification code Code identifying a user or association maintained code list.	C an..17
O		3055	Code list responsible agency code Code specifying the agency responsible for a code list.	C an..3
O	C058		NAME AND ADDRESS Unstructured name and address: one to five lines.	C 1
M		3124	Name and address description Free form description of a name and address line.	M an..35
O		3124	Name and address description Free form description of a name and address line.	C an..35
O		3124	Name and address description Free form description of a name and address line.	C an..35
O		3124	Name and address description Free form description of a name and address line.	C an..35
O		3124	Name and address description Free form description of a 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 to five lines. Party name may be formatted.		
M	3036	Party name	M	an..70
		Name of a party.		
O	3036	Party name	C	an..70
		Name of a party.		
O	3036	Party name	C	an..70
		Name of a party.		
O	3036	Party name	C	an..70
		Name of a party.		
O	3036	Party name	C	an..70
		Name of a party.		
O	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 to four lines.		
M	3042	Street and number or post office box identifier	M	an..35
		To identify a street and number and/or Post Office box number.		
O	3042	Street and number or post office box identifier	C	an..35
		To identify a street and number and/or Post Office box number.		
O	3042	Street and number or post office box identifier	C	an..35
		To identify a street and number and/or Post Office box number.		
O	3042	Street and number or post office box identifier	C	an..35
		To identify a street and number and/or Post Office box number.		
O	3164	CITY NAME	C	1 an..35
		Name of a city.		
O	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 code	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	1 an..17
		Code specifying the postal zone or address.		
O	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.

Segment Summary

<u>User</u>	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Max.</u>	<u>Group:</u>
<u>Attribute</u>	<u>No.</u>	<u>ID</u>		<u>Des.</u>	<u>Use</u>	<u>Repeat</u>
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: To identify a person or a department to whom communication should be directed.
Notes: **Example (s) :**
 CTA+MS+ABC CORP. '

Data Element Summary

<u>User Attribute</u>	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
O	3139		CONTACT FUNCTION CODE Code specifying the function of a contact (e.g. department or person). <i>BN Certification contact</i> <i>CW Confirmed with</i> <i>MS Message sender contact</i>	C 1 an..3
O	C056		CONTACT DETAILS Code and/or name of a contact such as a department or employee. Code preferred.	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: To identify a communication number of a department or a person to whom communication should be directed.
Notes: **Example (s) :**
 COM+NAME (A) LINE .COM:EM '

Data Element Summary

<u>User Attribute</u>	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	C076		COMMUNICATION CONTACT Communication number of a department or employee in a specified channel.	M 3
M		3148	Communication address identifier To identify a communication address.	M an..512
M		3155	Communication means type code Code specifying the type of communication address.	M an..3
			<i>AL Cellular phone</i>	
			<i>AM International telephone direct line</i>	
			<i>EM Electronic mail</i>	
			<i>MA Mail</i>	



Group: **EQD** Segment Group 4: Equipment Details
Position: 00120
Group:
Level: 1
Usage: Conditional (Optional)
Max Use: 99999
Purpose: A group of segments containing information about one packed container.
Notes: **Group transmitting VGM information about a container:**

- identification and routing information
- gross mass (status verified or not)
- DOC group for documentation of VGM

Segment Summary

<u>User</u>	<u>Pos.</u>	<u>Seg.</u>		<u>Req.</u>	<u>Max.</u>	<u>Group:</u>
<u>Attribute</u>	<u>No.</u>	<u>ID</u>	<u>Name</u>	<u>Des.</u>	<u>Use</u>	<u>Repeat</u>
M	00130	EQD	Equipment Details	M	1	
O	00140	RFF	Reference	C	9	
O	00150	LOC	Place/Location Identification	C	9	
O	00160	SEL	Seal Number	C	9	
	00170		Segment Group 5: Measurements	C		9
	00200		Segment Group 6: Transport Information	C		9
	00230		Segment Group 7: Document/Message Details	C		9



Segment: EQD Equipment Details
Position: 00130 (Trigger Segment)
Group: Segment Group 4 (Equipment Details) Conditional (Optional)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: To identify a unit of equipment.
Notes: **Example (s) :**
 EQD+CN+SUDU1234569:6346:5+42G1:6346:5+++5' (40' container of type 42G1)

Data Element Summary

User	Data	Component	Attributes	
Attribute	Element	Element	Name	
M	8053		EQUIPMENT TYPE CODE QUALIFIER	M 1 an..3
			Code qualifying a type of equipment.	
			Transmission of code "CN" is required in all use cases.	
			<i>CN</i> <i>Container</i>	
O	C237		EQUIPMENT IDENTIFICATION	C 1
			Marks (letters/numbers) identifying equipment.	
O		8260	Equipment identifier	C an..17
			To identify equipment.	
O		1131	Code list identification code	C an..17
			Code identifying a user or association maintained code list.	
			<i>6346</i> <i>container ID according to ISO 6346</i>	
O		3055	Code list responsible agency code	C an..3
			Code specifying the agency responsible for a code list.	
			<i>5</i> <i>ISO (International Organization for Standardization)</i>	
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.	
O	C224		EQUIPMENT SIZE AND TYPE	C 1
			Code and or name identifying size and type of equipment. Code preferred.	
O		8155	Equipment size and type description code	C an..10
			Code specifying the size and type of equipment.	
			Refer to D.13B Data Element Dictionary for acceptable code values.	
O		1131	Code list identification code	C an..17
			Code identifying a user or association maintained code list.	
			<i>6346</i> <i>size and type coding according to ISO 6346</i>	
O		3055	Code list responsible agency code	C an..3
			Code specifying the agency responsible for a code list.	
			<i>5</i> <i>ISO (International Organization for Standardization)</i>	
O		8154	Equipment size and type description	C an..35
			Free form description of the size and type of equipment.	
O	8077		EQUIPMENT SUPPLIER CODE	C 1 an..3
			Code specifying the party that is the supplier of the equipment.	
			Refer to D.13B Data Element Dictionary for acceptable code values.	
O	8249		EQUIPMENT STATUS CODE	C 1 an..3
			Code specifying the status of equipment.	
			Refer to D.13B Data Element Dictionary for acceptable code values.	



O	8169	FULL OR EMPTY INDICATOR CODE Code indicating whether an object is full or empty. <i>5 Full</i>	C	1 an..3
O	4233	MARKING INSTRUCTIONS CODE Code specifying instructions for marking. Refer to D.13B Data Element Dictionary for acceptable code values.	C	1 an..3



Segment: **RFF** Reference
Position: 00140
Group: Segment Group 4 (Equipment Details) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 9
Purpose: To specify a reference.
Notes: **This reference is intended to relate the transmitted VGM data to message recipient's internal business transactions.**

Example (s) :

RFF+BN:37N023' (booking number)
 RFF+SI:US1603-2224' (shipper's internal reference)

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Name</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Element</u>	<u>Element</u>		
M	C506		REFERENCE Identification of a reference.	M 1
M		1153	Reference code qualifier Code qualifying a reference. <i>BM Bill of lading number</i> <i>BN Consignment identifier, carrier assigned</i> <i>SI SID (Shipper's identifying number for shipment)</i>	M an..3
O		1154	Reference identifier Identifies a reference.	C an..70
O		1156	Document line identifier To identify a line of a document.	C an..6
O		1056	Version identifier To identify a version.	C an..9
O		1060	Revision identifier To identify a revision.	C an..6



Segment: LOC Place/Location Identification
Position: 00150
Group: Segment Group 4 (Equipment Details) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 9
Purpose: To identify a place or a location and/or related locations.
Notes: **Locations related to container's transport chain.**

Message design note(s):

The location where the VGM has been determined is NOT to be transmitted in this segment but in SG8 as part of NAD+WPA.

Example (s) :

LOC+9+NLRTM+DGE:TERMINALS:306' (port of loading incl. terminal specification)

Data Element Summary

<u>User Attribute</u>	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	3227		LOCATION FUNCTION CODE QUALIFIER Code identifying the function of a location.	M 9 an..3
			9 <i>Place of loading</i>	
			11 <i>Place of discharge</i>	
			13 <i>Place of transhipment</i>	
			20 <i>Place of ultimate destination of goods</i>	
			65 <i>Final port or place of discharge</i>	
			76 <i>Original port of loading</i>	
			84 <i>Transport contract place of acceptance</i>	
			85 <i>Transport contract place of destination</i>	
			88 <i>Place of receipt</i>	
O	C517		LOCATION IDENTIFICATION Identification of a location by code or name.	C 1
O		3225	Location identifier To identify a location.	C an..35
			UN-LoCode of place specified in 3227.	
O		1131	Code list identification code Code identifying a user or association maintained code list.	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		3224	Location name Name of the location.	C an..256
O	C519		RELATED LOCATION ONE IDENTIFICATION Identification the first related location by code or name.	C 1
			terminal in port	
O		3223	First related location identifier To identify a first related location.	C an..35
O		1131	Code list identification code Code identifying a user or association maintained code list. <i>TERMINALS SMDG code list for terminal facilities</i>	C an..17
O		3055	Code list responsible agency code	C an..3

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



Segment: **SEL** Seal Number
Position: 00160
Group: Segment Group 4 (Equipment Details) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 9
Purpose: To specify the seal number or a range of seal numbers.
Notes: **The seal number(s) attached to the container at the time of VGM determination.**
Example (s) :
 SEL+987654321+SH' (shipper's seal)

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Element</u>	<u>Element</u> <u>Name</u>	
O	9308	TRANSPORT UNIT SEAL IDENTIFIER The identification number of a seal affixed to a transport unit.	C 1 an..35
O	C215	SEAL ISSUER Identification of the issuer of a seal on equipment either by code or by name.	C 1
O		9303 Sealing party name code Code specifying the name of the sealing party. <i>AA Consolidator</i> <i>AB Unknown</i> <i>CA Carrier</i> <i>CU Customs</i> <i>SH Shipper</i> <i>TO Terminal operator</i>	C an..3
O		1131 Code list identification code Code identifying a user or association maintained code list.	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		9302 Sealing party name Name of the sealing party.	C an..35
O	4517	SEAL CONDITION CODE Code specifying the condition of a seal. <i>1 In right condition</i> <i>2 Damaged</i> <i>3 Missing</i> <i>4 Broken</i> <i>5 Faulty electronic seal</i>	C 1 an..3
O	C208	IDENTITY NUMBER RANGE Goods item identification numbers, start and end of consecutively numbered range.	C 1
M		7402 Object identifier Code specifying the unique identity of an object.	M an..35
O		7402 Object identifier Code specifying the unique identity of an object.	C an..35
O	4525	SEAL TYPE CODE To specify a type of seal.	C 1 an..3



Refer to D.13B Data Element Dictionary for acceptable code values.



Group: MEA Segment Group 5: Measurements
Position: 00170
Group: Segment Group 4 (Equipment Details) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group to specify specify the gross mass of transport equipment and date/time when it was determined.
Notes: A group specifying a packed container's gross mass, whether it is verified or not (yet) and optionally the date/time when it was determined.

Segment Summary

<u>Attribute</u>	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Max.</u>	<u>Group:</u>
	<u>No.</u>	<u>ID</u>		<u>Des.</u>	<u>Use</u>	<u>Repeat</u>
M	00180	MEA	Measurements	M	1	
D	00190	DTM	Date/Time/Period	C	9	

Segment: MEA Measurements
Position: 00180 (Trigger Segment)
Group: Segment Group 5 (Measurements) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements, including dimension tolerances, weights and counts.
Notes: **Example (s) :**
 Gross mass, verified: MEA+AAE+VGM+KGM:21700'
 Gross mass, not verified: MEA+AAE+AET+KGM:20000'

Data Element Summary

User	Data	Component	Attributes	
<u>Attribute</u>	<u>Element</u>	<u>Element</u>	<u>Name</u>	
M	6311		MEASUREMENT PURPOSE CODE QUALIFIER	M 1 an..3
			Code qualifying the purpose of the measurement.	
			<i>AAE</i> <i>Measurement</i>	
O	C502		MEASUREMENT DETAILS	C 1
			Identification of measurement type.	
			In case the verification status is not known, code AET must be transmitted.	
O		6313	Measured attribute code	C an..3
			Code specifying the attribute measured.	
			code VGM not yet confirmed by UN/CEFACT	
			<i>AET</i> <i>Transport equipment gross weight</i>	
			<i>VGM</i> <i>Verified gross mass - transport equipment verified gross weight</i>	
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.	
O		6155	Non-discrete measurement name code	C an..17
			Code specifying the name of a non-discrete measurement.	
			Refer to D.13B Data Element Dictionary for acceptable code values.	
O		6154	Non-discrete measurement name	C an..70
			Name of a non-discrete measurement.	
O	C174		VALUE/RANGE	C 1
			Measurement value and relevant minimum and maximum values of the measurement range.	
M		6411	Measurement unit code	M an..8
			Code specifying the unit of measurement.	
			<i>KGM</i> <i>kilogram</i>	
			<i>LBR</i> <i>pounds</i>	
O		6314	Measure	C an..18
			To specify the value of a measurement.	
O		6162	Range minimum quantity	C n..18
			To specify the minimum value of a range.	
O		6152	Range maximum quantity	C n..18
			To specify the maximum value of a range.	
O		6432	Significant digits quantity	C n..2
			Count of the number of significant digits.	



O	7383	SURFACE OR LAYER CODE	C	1 an..3
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Code specifying the surface or layer of an object.
Refer to D.13B Data Element Dictionary for acceptable code values.

Segment: **DTM** Date/Time/Period
Position: 00190
Group: Segment Group 5 (Measurements) Conditional (Optional)
Level: 3
Usage: Conditional (Dependent)
Max Use: 9
Purpose: To specify date, and/or time, or period.
Notes: **Date and time when gross mass was determined. In case of re-determining VGM, transmission this segment may be used to identify its latest version.**

Example (s) :

DTM+WAT:201606251632:203'

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Name</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Element</u>	<u>Element</u>		
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.	
			code WAT will be replaced by numerical code once assigned by UN/CEFACT	
			WAT Weight ascertained - Date/Time when gross mass was obtained	
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.	
			203 CCYYMMDDHHMM	
			205 CCYYMMDDHHMMZHHMM	
			303 CCYYMMDDHHMMZZZ	



Group: **TDT** Segment Group 6: Transport Information
Position: 00200
Group: Segment Group 4 (Equipment Details) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group of segments identifying the means of transport and related details for a transport stage

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

Segment Summary

<u>User</u>	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Max.</u>	<u>Group:</u>
<u>Attribute</u>	<u>No.</u>	<u>ID</u>		<u>Des.</u>	<u>Use</u>	<u>Repeat</u>
M	00210	TDT	Transport Information	M	1	
O	00220	RFF	Reference	C	9	

Segment: **TDT** Transport Information
Position: 00210 (Trigger Segment)
Group: Segment Group 6 (Transport Information) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: 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.

Notes: **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

<u>User Attribute</u>	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	8051		TRANSPORT STAGE CODE QUALIFIER Code qualifying a specific stage of transport. <i>20 Main-carriage transport</i>	M 1 an..3
O	8028		MEANS OF TRANSPORT JOURNEY IDENTIFIER To identify a journey of a means of transport.	C 1 an..17
O	C220		MODE OF TRANSPORT Method of transport code or name. Code preferred.	C 1
O		8067	Transport mode name code Code specifying the name of a mode of transport. <i>code by UN/ECE recommendation 20</i> <i>1 Maritime transport</i>	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.	C 1
O		8179	Transport means description code Code specifying the means of transport. Refer to D.13B Data Element Dictionary for acceptable code values.	C an..8
O		1131	Code list identification code Code identifying a user or association maintained code list.	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
O		3127	Carrier identifier To identify a carrier.	C an..17
O		1131	Code list identification code Code identifying a user or association maintained code list.	C an..17

		<i>LINES</i>	<i>SMDG lines code list</i>		
O		3055	Code list responsible agency code Code specifying the agency responsible for a code list. <i>306 SMDG (Ship-planning Message Design Group)</i>	C	an..3
O		3126	Carrier name Name of a carrier.	C	an..35
O	8101		TRANSIT DIRECTION INDICATOR CODE Code specifying the direction of transport. Refer to D.13B Data Element Dictionary for acceptable code values.	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
O		8213	Transport means identification name identifier Identifies the name of the transport means.	C	an..35
O		1131	Code list identification code Code identifying a user or association maintained code list. <i>CALLSIGN vessel callsign</i> <i>IMO IMO number</i>	C	an..17
O		3055	Code list responsible agency code Code specifying the agency responsible for a code list. <i>11 Lloyd's register of shipping</i> <i>296 ITU (International Telecommunication Union)</i>	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
O	C003		POWER TYPE To specify the type of power.	C	1
O		7041	Power type code Code indicating the type of power. Refer to D.13B Data Element Dictionary for acceptable code values.	C	an..3
O		1131	Code list identification code Code identifying a user or association maintained code list.	C	an..17
O		3055	Code list responsible agency code Code specifying the agency responsible for a code list.	C	an..3



O	7040	Refer to D.13B Data Element Dictionary for acceptable code values. Power type description Description of the type of power.	C	an..17
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Segment: **RFF** Reference
Position: 00220
Group: Segment Group 6 (Transport Information) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 9
Purpose: To specify a reference.
Notes: **Example (s) :**
 RFF+VON:124W51 '

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Name</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Element</u>	<u>Element</u>		
M	C506		REFERENCE Identification of a reference.	M 1
M		1153	Reference code qualifier Code qualifying a reference.	M an..3
			export/loading voyage number (for specification of import/discharge voyage number use D8023 in preceeding TDT segment) <i>VON Voyage number</i>	
O		1154	Reference identifier Identifies a reference.	C an..70
O		1156	Document line identifier To identify a line of a document.	C an..6
O		1056	Version identifier To identify a version.	C an..9
O		1060	Revision identifier To identify a revision.	C an..6



Group: DOC Segment Group 7: Document/Message Details
Position: 00230
Group: Segment Group 4 (Equipment Details) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group specifying a documents and details related to it.
Notes: Group specifying documentation related to SOLAS gross mass verification of a packed container.

Segment Summary

<u>User</u>	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Max.</u>	<u>Group:</u>
<u>Attribute</u>	<u>No.</u>	<u>ID</u>		<u>Des.</u>	<u>Use</u>	<u>Repeat</u>
M	00240	DOC	Document/Message Details	M	1	
O	00250	DTM	Date/Time/Period	C	9	
	00260		Segment Group 8: Name and Address	C	9	

Segment: **DOC** Document/Message Details
Position: 00240 (Trigger Segment)
Group: Segment Group 7 (Document/Message Details) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: To identify documents and details directly related to it.
Notes: Specify type of SOLAS VGM documentation and a unique reference:

-- Documentation about party responsible to obtain VGM (shipper)
 -- Documentation about ascertainment of VGM according method 1
 -- Documentation about ascertainment of VGM according method 2
 -- Reference to VGM documentation

Example (s) :

DOC+SHP:VGM:306+27G92ZZ' (documentation regarding shipper with ID=27G92ZZ)
 DOC+SM1:VGM:306+W42-23110812' (documentation with regard to method 1)
 DOC+SM2:VGM:306+QCT000784' (documentation with regard to method 2)
 DOC+DRF:VGM:306+KJH1607-782' (reference to documentation)

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Name</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Element</u>	<u>Element</u>		
M	C002		DOCUMENT/MESSAGE NAME Identification of a type of document/message by code or name. Code preferred.	M 1
O		1001	Document name code Code specifying the document name.	C an..3
			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	
			<i>DRF</i> Documentation of gross mass verification <i>SHP</i> Party responsible for verification of gross massX <i>SM1</i> SOLAS verification method 1 <i>SM2</i> SOLAS verification method 2	
O		1131	Code list identification code Code identifying a user or association maintained code list.	C an..17
			<i>VGM</i> Verified Gross Mass Information	
O		3055	Code list responsible agency code Code specifying the agency responsible for a code list.	C an..3
			<i>306</i> SMDG (Ship-planning Message Design Group)	
O		1000	Document name Name of a document.	C an..35
R	C503		DOCUMENT/MESSAGE DETAILS	C 1

R	1004	<p>Identification of document/message by number, status, source and/or language.</p> <p>Document identifier</p> <p>To identify a document.</p>	C	an..70
<p>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</p>				
O	1373	<p>Document status code</p> <p>Code specifying the status of a document.</p> <p>Refer to D.13B Data Element Dictionary for acceptable code values.</p>	C	an..3
O	1366	<p>Document source description</p> <p>Free form description of the source of a document.</p>	C	an..70
O	3453	<p>Language name code</p> <p>Code specifying the language name.</p>	C	an..3
O	1056	<p>Version identifier</p> <p>To identify a version.</p>	C	an..9
O	1060	<p>Revision identifier</p> <p>To identify a revision.</p>	C	an..6
O	3153	<p>COMMUNICATION MEDIUM TYPE CODE</p> <p>Code specifying the type of communication medium.</p> <p>Refer to D.13B Data Element Dictionary for acceptable code values.</p>	C	1 an..3
O	1220	<p>DOCUMENT COPIES REQUIRED QUANTITY</p> <p>Quantity of document copies required.</p>	C	1 n..2
O	1218	<p>DOCUMENT ORIGINALS REQUIRED QUANTITY</p> <p>Quantity of document originals required.</p>	C	1 n..2

Segment: **DTM** Date/Time/Period
Position: 00250
Group: Segment Group 7 (Document/Message Details) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 9
Purpose: To specify date, and/or time, or period.
Notes: **Date/Time when the Verified Gross Mass was determined or Date/Time when the document/certificate was issued**

Example (s) :

DTM+137:201606270809:203'

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Name</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Element</u>	<u>Element</u>		
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.	
			code WAT will be replaced by numerical code once assigned by UN/CEFACT	
			<i>137 Document issue date time</i>	
			<i>WAT Transport equipment verified gross mass ascertained date/time</i>	
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.	
			<i>203 CCYYMMDDHHMM</i>	
			<i>205 CCYYMMDDHHMMZHHMM</i>	
			<i>303 CCYYMMDDHHMMZZZ</i>	



Group: NAD Segment Group 8: Name and Address
Position: 00260
Group: Segment Group 7 (Document/Message Details) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group to qualify and specify name and address information in VGM documentation.

- Notes:** **Group for specification of**
- a) the 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

Segment Summary

<u>User</u>	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Max.</u>	<u>Group:</u>
<u>Attribute</u>	<u>No.</u>	<u>ID</u>		<u>Des.</u>	<u>Use</u>	<u>Repeat</u>
M	00270	NAD	Name and Address	M	1	
	00280		Segment Group 9: Contact Information	C	9	

Segment: NAD Name and Address
Position: 00270 (Trigger Segment)
Group: Segment Group 8 (Name and Address) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 1
Purpose: To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207.

Notes: **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.

Message design note(s):

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.

Example (s) :

The company acting as shipper of the packed container is transmitted by:

```
NAD+SPC+++BEST FRUIT LTD.+LONG STREET 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 STREET
987:P.O. BOX 321123+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'
```

The party holding VGM documentation (as part of shipping documents):

```
NAD+WC+++HL ASIA+B3 STREET 21:PO BOX
3000+SINGAPORE++6159+SG'
```

The party which has ordered weighing at terminal or weighing station:

```
NAD+OB+++A1 LTD+B1 STREET 100:PO BOX 1000+C
CITY++9000+DE'
```

Data Element Summary

<u>User</u>	<u>Data</u>	<u>Component</u>	<u>Name</u>	<u>Attributes</u>
M	3035	<u>Element</u>	PARTY FUNCTION CODE QUALIFIER Code giving specific meaning to a party.	M 1 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

code SPC is not yet confirmed by UN/CEFACT

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

O	C082	PARTY IDENTIFICATION DETAILS 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 elements 1131 and/or 3055 is required. Example (s) : ID::9 --- GS1 ID ID::16 --- Duns ID ID:EORI:ZZZ --- EORI ID ID:INTTRA:ZZZ -- INTTRA ID ID:TAX:ZZZ -- tax ID	C	1
M	3039	Party identifier Code specifying the identity of a party.	M	an..35
D	1131	Code list identification code Code identifying a user or association maintained code list. Usage of this data element is required if C082.3055 is transmitted as ZZZ.	C	an..17
		<i>EORI</i> <i>EORI number</i> <i>INTTRA</i> <i>INTTRA ID</i> <i>TAX</i> <i>TAX ID</i>		
R	3055	Code list responsible agency code Code specifying the agency responsible for a code list. <i>9</i> <i>GS1</i> <i>16</i> <i>US, D&B (Dun & Bradstreet Corporation)</i> <i>ZZZ</i> <i>Mutually defined</i>	C	an..3
O	C058	NAME AND ADDRESS Unstructured name and address: one to five lines. Usage of this composite is deprecated. For transmission of name and address it is recommended to use C080 through 3207 instead.	C	1
M	3124	Name and address description Free form description of a name and address line.	M	an..35
O	3124	Name and address description Free form description of a name and address line.	C	an..35
O	3124	Name and address description Free form description of a name and address line.	C	an..35
O	3124	Name and address description Free form description of a name and address line.	C	an..35
O	3124	Name and address description Free form description of a 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 to five lines. Party name may be formatted.		
M	3036	Party name	M	an..70
		Name of a party.		
O	3036	Party name	C	an..70
		Name of a party.		
O	3036	Party name	C	an..70
		Name of a party.		
O	3036	Party name	C	an..70
		Name of a party.		
O	3036	Party name	C	an..70
		Name of a party.		
O	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 to four lines.		
M	3042	Street and number or post office box identifier	M	an..35
		To identify a street and number and/or Post Office box number.		
O	3042	Street and number or post office box identifier	C	an..35
		To identify a street and number and/or Post Office box number.		
O	3042	Street and number or post office box identifier	C	an..35
		To identify a street and number and/or Post Office box number.		
O	3042	Street and number or post office box identifier	C	an..35
		To identify a street and number and/or Post Office box number.		
O	3164	CITY NAME	C	1 an..35
		Name of a city.		
O	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 code	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	1 an..17
		Code specifying the postal zone or address.		
D	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.		
		In some business cases specification of the country in which ascertainment of weight has taken place is required.		

Group: **CTA** Segment Group 9: Contact Information
Position: 00280
Group: Segment Group 8 (Name and Address) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 9
Purpose:
Notes:

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

Segment Summary

<u>User</u>	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Max.</u>	<u>Group:</u>
<u>Attribute</u>	<u>No.</u>	<u>ID</u>		<u>Des.</u>	<u>Use</u>	<u>Repeat</u>
M	00290	CTA	Contact Information	M		1
O	00300	COM	Communication Contact	C		9

Segment: CTA **Contact Information**
Position: 00290 (Trigger Segment)
Group: Segment Group 9 (Contact Information) Conditional (Optional)
Level: 4
Usage: Mandatory
Max Use: 1
Purpose: To identify a person or a department to whom communication should be directed.
Notes: **With function code RP the segment is used for transmission of a signature (person's name in capital letters).**
Example (s) :
 CTA+RP+:PETER J. SMITH' (signature by name in capital letters)
 CTA+BN' (communication contact with details in subsequent COM segment)

Data Element Summary

<u>User Attribute</u>	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
O	3139		CONTACT FUNCTION CODE Code specifying the function of a contact (e.g. department or person). code RP not yet confirmed by UN/CEFACT <i>BN Certification contact</i> <i>RP (Authorized) responsible person</i>	C 1 an..3
D	C056		CONTACT DETAILS Code and/or name of a contact such as a department or employee. Code preferred. Required if 3139=RP	C 1
O		3413	Contact identifier To identify a contact, such as a department or employee.	C an..17
D		3412	Contact name 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).	C an..256

Segment: **COM** Communication Contact
Position: 00300
Group: Segment Group 9 (Contact Information) Conditional (Optional)
Level: 5
Usage: Conditional (Optional)
Max Use: 9
Purpose: To identify a communication number of a department or a person to whom communication should be directed.

Notes: **Contact address for party or person (according to function qualifier in current CTA group)**

Example (s) :

COM+?+19731234567:TE' - phone number
 COM+DISPATCH(A)MODERN-FOOTWEAR.COM:EM' - email address
 COM+ABC STRASSE 98, 20000 HAMBURG, GERMANY:MA' - physical address

Data Element Summary

<u>User Attribute</u>	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	C076		COMMUNICATION CONTACT Communication number of a department or employee in a specified channel.	M 3
M		3148	Communication address identifier To identify a communication address.	M an..512
M		3155	Communication means type code Code specifying the type of communication address.	M an..3
			<i>EM</i> <i>Electronic mail</i>	
			<i>FX</i> <i>Telefax</i>	
			<i>MA</i> <i>Mail</i>	
			<i>TE</i> <i>Telephone</i>	



Segment: UNT Message Trailer
Position: 00310
Group:
Level: 0
Usage: Conditional (Optional)
Max Use: 1
Purpose: To end and check the completeness of a Message

Data Element Summary

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

4.6 Transmission of Signatures in VERMAS

Edifact messages do not provide means to characterize data as *signatures* with their special impact in business world. The SOLAS regulations consider this fact and allow a signature to be transmitted “by the name of the responsible person in capital letters”.

In VERMAS a person’s name may be transmitted in a NAD segment although there is no signed documentation available yet. Thus, it has been defined that a *name in capital letters* may only be considered as signature, if it is transmitted in segment position 00290 by **CTA+RP+ : NAME ’**.

Example:

Example 4.6-1 When a name in capital letters is interpreted as signature

Edifact	Comment
DOC+SHP:VGM:306:SHIPPER INFO+SHP-DOC-ID-10000’	Shipper’s VGM declaration
NAD+SPC+++A1 LTD+B1 STREET 100:PO BOX 1000+C CITY++9000+DE’	Shipper’s company name and address
NAD+AM+++ JOHN P. SMITH :C/O A1 LTD+B1 STREET 100:PO BOX 1000+C CITY++9000+DE’	Name/address of shipper’s authorized person – Name is <u>not</u> considered as signature
CTA+RP+ : JOHN P. SMITH’	Name is considered as signature

In CTA-group 9 the qualifier RP (responsible person) shall only be used for signatures. In any other case, when CTA-group 9 is used for contact address or communication contacts of parties or individuals, qualifier BM (certification contact) shall be used.



4.7 Transmitting Signatures without Disclosure of the Party

Carriers usually don't want to disclose the identity of the shipper to other stakeholders in the transportation process. This principle might even be required by the authorities. – On the other hand, some parties might accept a VGM declaration only, if it is signed by an authorized person.

VERMAS allows for omitting any name and address details in NAD segments. Thus the just fact that a signature exists can be transmitted by a DOC group:

Example 4.7-1 Transmitting signature without disclosure of party's identity

Edifact	Comment
DOC+SHP:VGM:306:SHIPPER INFO+SHP-DOC-ID-10000'	Shipper's VGM declaration
NAD+AM'	Empty NAD group trigger segment for authorized official
CTA+RP+: NAME IN CAPITAL LETTERS'	signature

In this case the authorized person's name is transmitted, but neither company's identity nor address of the authorized person. By this information the message recipient is informed that a correctly signed VGM declaration is available. A DOC+DRF group may inform the recipient where the full VGM declaration is available.

4.8 Preliminary codes

A few codes for qualifiers used in this MIG are not yet listed in the official Edifact directory. The DMRs (data maintenance requests) for the according code lists are still pending. The representation of these codes may change once UN/CEFACT has officially published them in the directory.

Preliminary codes listed by occurrence in segment structure

Position	Segment	Data Element	Code	Description
00020	BGM	C002.1001	XXX	Document name code
00080	NAD	3035	SPC	SOLAS packed container responsible party
00180	MEA	C502.6313	VGM	SOLAS verified gross mass
00190	DTM	C507.2005	WAT	Date/time when VGM was obtained
00250	DTM	C507.2005	WAT	Date/time when VGM was obtained
00270	NAD	3035	SPC	SOLAS packed container responsible party
00290	CTA	3139	RP	Authorized responsible person

Preliminary codes listed in alphabetical order

Code	Description	Used in		
		segment	position	element
RP	Authorized responsible person	CTA	00290	3139
SPC	SOLAS packed container responsible party	NAD	00080 00270	3035
VGM	SOLAS verified gross mass	MEA	00180	C502.6313
WAT	Date/time when VGM was obtained	DTM	00190 00250	C507.2005
XXX	Document name code	BGM	00020	C002.1001

5 Use Cases and Examples

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

Introduction to VERMAS use cases ...

Table 1

No	Sender	Receiver	Use Case Details
1	Shipper	Carrier	Shipper has determined the weight himself
2	Shipper	Carrier	3rd party has weighed, as instructed by the shipper
3	Shipper	Carrier	3 rd party will determine the weight, the shipper only reports his responsibility
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
7	Terminal	Carrier	Container was re-weighed so that the terminal has two different weights available
8	Carrier	Terminal	Standard process
9	Carrier	Shipper	Carrier has got knowledge of a weight (e.g. from Terminal) that he forwards to the Shipper

5.1 Shipper to Carrier -

The Shipper has determined the weight himself using method 1 or 2

Data elements that can be transmitted:

- Container ID mandatory
- Carrier's Booking number
- Shipper's internal reference
- Seal Number
- Port of Loading
- Final Destination
- Verified Gross Mass mandatory
- Verification Date
- Vessel Name
- Voyage Number

In addition to the mandatory data elements the carrier requires sufficient other data, based on mutual agreement, in order to assign the container to the booking.

Documentation of Shipper's responsibility

- Shipper (the company) as Party Name and Address
- Full Name of the Authorized Person (at the Shipper)
- Contact details of the Shipper

Documentation of Gross Mass Verification

- Method used (1 or 2)
- Party (the company) that has ascertained the VGM, Name and Address
 - ➔ in this use case it is the Shipper
- Name of the person who has ascertained the VGM (at the Shipper).
- Date when the VGM was ascertained

Example for use case 1: The shipper has already obtained VGM by himself and sends full VGM documentation to the carrier.

Example 5.1-1 Shipper to carrier (1)

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
RFF+BN:112233-ABC'	Booking number
RFF+SI+A456C'	Shipper's internal ID
SEL+ZYX234+SH'	Seal number
LOC+85+PHSJI'	Cargo final destination
LOC+9+DEHAM'	Port of loading
MEA+AAE+VGM+KGM:21548'	Verified gross mass
DTM+WAT:201508151527-0200:208'	Local time and time zone when VGM was obtained
TDT+20+567N34+1+HLC:LINES:306+++::ABC EXPRESS'	Vessel, vessel operator, import voyage ID
RFF+VON+568S38'	Export voyage ID
DOC+SHP:VGM:306:SHIPPER INFO+SHP-DOC-ID-10000'	DOC → Shipper's VGM declaration with ID
NAD+SPC+++A1 LTD+B1 STREET 100:PO BOX 1000+C CITY++9000+DE'	Shipper's company name and address
CTA+BN+A1 LTD DESPATCH DEPT'	Shipper's VGM contact reference
COM+VGM(A)A1LTD.COM:EM'	e-mail contact
COM+?+49-987-654321-87:TE'	Phone contact
COM+A1 LTD, DISPATCH DEPT; POBOX 1000;90000 C CITY;GERMANY:MA'	Postal mail contact
NAD+AM+++JOHN P. SMITH:C/O A1 LTD+B1 STREET 100:PO BOX 1000+C CITY++9000+DE'	Shipper's authorized person
CTA+RP+: JOHN P. SMITH'	signature by authorized person
DOC+SM1:VGM:306:WEIGHING CERTIFICATE+SM1-BY SHP-DOC-ID20000'	DOC → Method 1 certificate with ID
DTM+WAT:201508151527?+0800:208'	Ascertainment DTM
DTM+137:201508151732?+0800:208'	Certificate issuing DTM
NAD+WPA+++ A1 LTD:DISPATCH DEPT+B1 STREET 100:PO BOX 1000+C CITY++9000+DE'	Weighing comp. name and address
CTA+BN+A1 LTD DESPATCH DEPT'	Weighing comp. contact reference



COM+VGM(A)A1LTD.COM:EM'	e-mail contact
COM+?+49-987-654321-87:TE'	Phone contact
COM+A1 LTD, DISPATCH DEPT; POBOX 1000;90000 C CITY;GERMANY:MA'	Postal mail contact
NAD+AM+++KARL SCHNEIDER:C/O A1 LTD+B1 STREET 100:PO BOX 1000+C CITY++9000+DE'	Weighing party's authorized person
CTA+RP+: KARL SCHNEIDER'	signature by authorized person

5.2 Shipper to Carrier - 3rd party has weighed, as instructed by the shipper using method 1 or 2

Typically the 3rd party is a weighing station using method 1.

Data elements that can be transmitted:

- Container ID mandatory
- Carrier's Booking number
- Shipper's internal reference
- Seal Number
- Port of Loading
- Final Destination
- Verified Gross Mass mandatory
- Verification Date
- Vessel Name
- Voyage Number

In addition to the mandatory data elements the carrier requires sufficient other data, based on mutual agreement, in order to assign the container to the booking.

Documentation of Shipper's responsibility

- Shipper (the company) as Party Name and Address
- Full Name of the Authorized Person (at the Shipper)
- Contact details of the Shipper

Documentation of Gross Mass Verification

- Method used (1 or 2)
- Party (→ the 3rd party company) that has ascertained the VGM, Name and Address
- Name of the person who has ascertained the VGM (at the 3rd party).
- Date when the VGM was ascertained.

Example for use case 2: From **shipper to carrier**, actual ascertainment of VGM has been done by 3rd party in a different country

Example 5.2-1 Shipper to carrier (2)

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
RFF+BN:112233-ABC'	Booking number
RFF+SI+A456C'	Shipper's internal ID
SEL+ZYX234+SH'	Seal number
LOC+85+PHSJI'	Contract final destination
LOC+9+AUFRE'	Port of loading (AU)
MEA+AAE+VGM+KGM:21548'	Verified gross mass
DTM+WAT:201508151527-0200:208'	Local time and time zone when VGM obtained
TDT+20+567N34+1+HLC:LINES:306+++:::ABC EXPRESS'	Vessel, vessel operator, import voyage ID
RFF+VON+568S38'	Export voyage ID
DOC+SHP:VGM:306:SHIPPER INFO+ SHP-DOC-ID-10000 '	DOC → Shipper's VGM declaration with ID
NAD+SPC+++A1 LTD+B1 STREET 100:PO BOX 1000+C CITY++9000+DE'	Shipper's company name and address (DE)
CTA+BN+A1 LTD DISPATCH DEPT'	Shipper's VGM contact reference
COM+VGM(A)A1LTD.COM:EM'	e-mail contact
COM+?+49-987-654321-87:TE'	Phone contact
COM+A1 LTD, DISPATCH DEPT; POBOX 1000;90000 C CITY;GERMANY:MA'	Postal mail contact
NAD+AM+++JOHN P. SMITH:C/O A1 LTD+B1 STREET 100:PO BOX 1000+C CITY++9000+DE'	Shipper's authorized person
CTA+RP+ :JOHN P. SMITH'	signature by authorized person
DOC+SM1:VGM:306:WEIGHING CERTIFICATE+SM1-BY EXT-DOC-ID20000'	DOC → Method 1 certificate with ID
NAD+WPA+++A2 WEIGHT LTD+B2 STREET 10:PO BOX 2000+PERTH++6159+AU'	Weighing company's name and address (AU)
CTA+BN+A2 WEIGHT LTD BRANCH NORD'	Weighing company's contact reference
COM+QA(A)A2 WEIGHT.AU:EM'	e-mail contact
COM+?+61-08-543210:TE'	Phone contact
COM+ A2 WEIGHT LTD; POBOX 2000;6159 PERTH;AUSTRALIA:MA'	Postal mail contact
	(NO signature of weighing certificate transmitted)



5.3 Shipper to Carrier

3rd party will determine the weight later, the shipper only reports his responsibility

→ In this use case the VGM has not yet been ascertained!

Data elements that can be transmitted:

- Container ID optional
- Carrier's Booking number
- Shipper's internal reference
- Seal Number
- Port of Loading
- Final Destination
- Vessel Name
- Voyage Number

The carrier requires sufficient other data, based on mutual agreement, in order to assign the container to the booking.

Documentation of Shipper's responsibility

- Shipper (the company) as Party Name and Address
- Full Name of the Authorized Person (at the Shipper)
- Contact details of the Shipper

Documentation of Gross Mass Verification

- Method that will be used (1 or 2)
- Party (→ the 3rd party company mandated by the Shipper) that will ascertain the VGM, Name and Address.



Example for use case 3: From **shipper to carrier**, actual ascertainment of VGM not yet performed but will be done by 3rd party. Shipper only declares his responsibility.

Example 5.3-1 Shipper to carrier (3)

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
RFF+BN:112233-ABC'	Booking number
RFF+SI+A456C'	Shipper's internal ID
SEL+ZYX234'	Seal number
LOC+85+ PHSJI'	Cargo final destination
LOC+9+AUFRE+CONFR:TERMINALS:306'	Port of loading (AU)
MEA+AAE+AET+KGM:21548'	Approx. gross mass
TDT+20+567N34+1+HLC:LINES:306+++:::ABC EXPRESS'	Vessel, vessel operator, import voyage ID
RFF+VON+568S38'	Export voyage ID
DOC+SHP:VGM:306:SHIPPER INFO+ SHP-DOC-ID-10000 '	DOC → Shipper's VGM declaration with ID
NAD+SPC+++A1 LTD+B1 STREET 100:PO BOX 1000+C CITY++9000+DE'	Shipper's company name and address (DE)
CTA+BN+A1 LTD DISPATCH DEPT'	Shipper's VGM contact reference
COM+VGM(A)A1LTD.COM:EM'	e-mail contact
COM+?+49-987-654321-87:TE'	Phone contact
COM+A1 LTD, DISPATCH DEPT; POBOX 1000;90000 C CITY;GERMANY:MA'	Postal mail contact
NAD+AM+++JOHN P. SMITH:C/O A2 WEIGHT LTD+B2 STREET 10:PO BOX 2000+PERTH++6159+AU'	Shipper's authorized person
CTA+RP+ :JOHN P. SMITH'	signature by authorized person
	(NO certificate transmitted)

5.4 Weighing Station to the Shipper - The Shipper had ordered the weighing at the Weighing facility

The weighing station could for example be located at an inland terminal or at an ocean terminal or along the road.

Data elements that can be transmitted:

- Container ID mandatory
- Carrier's Booking number
- Shipper's internal reference
- Seal Number
- Port of Loading
- Final Destination
- Verified Gross Mass mandatory
- Verification Date mandatory
- Vessel Name
- Voyage Number

In addition to the mandatory data elements the carrier requires sufficient other data, based on mutual agreement, in order to assign the container to the booking.

Documentation of Gross Mass Verification

- Method used (1 or 2, typically 1 for weighing)
- Party (→ the message sender) that has ascertained the VGM, Name and Address
- Name of the person who has ascertained the VGM (at the weighing station).
- Unique reference ID of the weighing certificate

Example for use case 4: From **inland weighing station to shipper**. No VGM information about shipper transmitted because he is the receiver.

Example 5.4-1 Inland weighing station to shipper

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
	Booking number not known
RFF+SI+A456C'	Shipper's internal ID
SEL+ZYX234'	Seal number
LOC+9+AUFRE'	Port of loading
MEA+AAE+VGM+KGM:21548'	Verified gross mass
DTM+WAT:201508151527?+0800:208'	Local time when VGM obtained
	No vessel / voyage information transmitted
DOC+SM1:VGM:306:WEIGHING CERTIFICATE+SM1-BY EXT-DOC-ID-20000'	DOC → Method 1 certificate with ID
DTM+WAT:201508151527?+0800:208'	Ascertainment DTM
DTM+137:201508151732?+0800:208'	Certificate issuing DTM
NAD+WPA+++DPW FREMANTLE+B2 STREET 10:PO BOX 2000+PERTH++6159+AU'	Weighing company's name and address
CTA+BN+DPW FREMANTLE OPS'	Weighing company's contact reference
COM+FREMANTLE.OPS(A)DPWORLD.COM:EM'	e-mail contact
COM+?+61-08-543210:TE'	Phone contact
COM+DPWORLD FREMANTLE; POBOX 2000;6159 PERTH;AUSTRALIA:MA'	Postal mail contact
NAD+AM+++JIM DUNN:C/O DPW+B2 STREET 10:PO BOX 2000+PERTH++6159+AU'	Weighing st.'s authorized person
CTA+RP+ : JIM DUNN'	signature by authorized person

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

5.5 Weighing Station to the Carrier - Shipper had ordered the weighing and instructed the weighing station to report directly to the carrier

The 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.

Data elements that can be transmitted:

- Container ID mandatory
- Carrier's Booking number
- Shipper's internal reference
- Seal Number
- Port of Loading
- Final Destination
- Verified Gross Mass mandatory
- Verification Date mandatory
- Vessel Name
- Voyage Number

In addition to the mandatory data elements the carrier requires sufficient other data, based on mutual agreement, in order to assign the container to the booking.

Documentation of Shipper's responsibility

- Shipper (the company) as Party Name and Address
(optional reporting of the mandate by the shipper)

Documentation of Gross Mass Verification

- Method used (1 or 2, typically 1 for weighing)
- Party (→ the message sender) that has ascertained the VGM, Name and Address
- Name of the person who has ascertained the VGM (at the weighing station).
- Unique reference ID of the weighing certificate



Example for 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.

Example 5.5-1 Inland weighing station to shipper

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
	Booking number not known
RFF+SI+A456C'	Shipper's internal ID
SEL+ZYG234'	Seal number
LOC+9+AUFRE+CONFR:TERMINALS:306'	Port of loading
MEA+AAE+VGM+KGM:21548'	Verified gross mass
DTM+WAT:201508151527?+0800:208'	Local time when VGM obtained
	(NO vessel / voyage information transmitted)
DOC+SM1:VGM:306:WEIGHING CERTIFICATE+ SM1-BY EXT-DOC-ID-20000 '	DOC → Method 1 certificate with ID
DTM+WAT:201508151527?+0800:208'	Ascertainment DTM
DTM+137:201508151732?+0800:208'	Certificate issuing DTM
NAD+OB+++A1 LTD+B1 STREET 100:PO BOX 1000+CITY++9000+DE'	Party who ordered the weighing
NAD+WPA+++A2 WEIGHT LTD+B2 STREET 10:PO BOX 2000+PERTH++6159+AU'	Weighing company's name and address
CTA+BN+A2 WEIGHT LTD BRANCH NORD'	Weighing company's contact reference
COM+QA(A)A2 WEIGHT.AU:EM'	e-mail contact
COM+?+61-08-543210:TE'	Phone contact
COM+ A2 WEIGHT LTD; POBOX 2000;6159 PERTH;AUSTRALIA:MA'	Postal mail contact
NAD+AM+++JIM DUNN:C/O A2 WEIGHT LTD+B2 STREET 10:PO BOX 2000+PERTH++6159+AU'	Weighing company's authorized person
CTA+RP+ : JIM DUNN'	signature by authorized person

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

5.6 Terminal to the Carrier - If standard procedure at the terminal to weigh each container

For a terminal where each container is weighed upon entering the gate.

Data elements that can be transmitted:

- Container ID mandatory
- Carrier's Booking number
- Shipper's internal reference
- Seal Number
- Port of Loading
- Final Destination
- Verified Gross Mass mandatory
- Verification Date mandatory
- Vessel Name
- Voyage Number

In addition to the mandatory data elements the carrier requires sufficient other data, based on mutual agreement, in order to assign the container to the booking.

Documentation of Gross Mass Verification

- Method used (only method 1 used)
- Party (→ the message sender) that has ascertained the VGM, Name and Address
- Name of the person who has ascertained the VGM (at the terminal).
- Unique reference ID of the weighing certificate



Example for use case 6: From **terminal to carrier**, terminal had received weighing order from carrier or shipper.

Example 5.6-1 Terminal to carrier - weighing instructed by shipper

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
RFF+BN:112233-ABC'	Booking number
RFF+SI+A456C'	Shipper's internal ID
SEL+ZYX234'	Seal number
LOC+9+AUFRE+CONFR:TERMINALS:306'	Port of loading
LOC+11+PHMNL'	Port of discharge
MEA+AAE+VGM+KGM:21548'	Verified gross mass
DTM+WAT:201508151527?+0800:208'	Local time when VGM obtained
TDT+20+567N34+1+HLC:LINE:306+++:::ABC EXPRESS'	Vessel, vessel operator, import voyage
RFF+VON+568S38'	Export voyage
DOC+SM1:VGM:306:WEIGHING CERTIFICATE+SM1-BY TRM-DOC-ID-20000'	DOC → Method 1 certificate with ID
DTM+WAT:201508151527?+0800:208'	Ascertainment DTM
DTM+137:201508151732?+0800:208'	Certificate issuing DTM
NAD+WPA+++DPW FREMANTLE+NORTH BEACH ROAD +NORTH FREMANTLE ++WA6159+AU'	Weighing company's (terminal) name and address
CTA+BN+DPW FREMANTLE'	Weighing company's contact reference
COM+QA.FREMANTLE(A)1-STOP.BIZ:EM'	e-mail contact
COM+?+61-08-543210:TE'	Phone contact
COM+ DPW; PORT BEACH ROAD 1;NORTH FREMANTLE WA 6159;AUSTRALIA:MA'	Postal mail contact
NAD+AM+++PAUL COX:C/O DPW+PORT BEACH ROAD 1+NORTH FREMANTLE++WA 6159+AU'	Weighing party's authorized person
CTA+RP+ : PAUL COX'	signature by authorized person

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

5.7 Terminal to the Carrier - Container was re-weighed so that the terminal has two different weights available

In an exceptional case. The previously announced VGM was questioned.

Data elements that can be transmitted:

- Container ID mandatory
- Carrier's Booking number
- Shipper's internal reference
- Seal Number
- Port of Loading
- Final Destination
- Verified Gross Mass old (as previously reported)
- Verification Date old (when previously reported)
- Verified Gross Mass new (as ascertained by re-weighing)
- Verification Date new (when re-weighed)
- Vessel Name
- Voyage Number

In addition to the mandatory data elements the carrier requires sufficient other data, based on mutual agreement, in order to assign the container to the booking.

Documentation of Gross Mass Verification

- Method used (only method 1 used)
- Party (→ the message sender) that has ascertained the re-weighed VGM, Name and Address
- Name of the person who has ascertained the re-weighed VGM (at the terminal).
- Unique reference ID of the weighing certificate for re-weighing

Example for use case 7: From **terminal to carrier**, re-weighing - original VGM was put in doubt. New SM1 documentation is transmitted. Earlier reported and newly ascertained gross mass are both transmitted.

Example 5.7-1 Terminal to carrier – re-weighing

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
RFF+BN:112233-ABC'	Booking number
SEL+ZYX234'	Seal number
LOC+9+AUFRE+CONFR:TERMINALS:306'	Port of loading
LOC+11+PHMNL'	Port of discharge
MEA+AAE+VGM+KGM:17900'	Original Verified gross mass put in doubt
DTM+WAT:201508120811?+0800:208'	Old DTM
MEA+AAE+VGM+KGM:21548'	Verified gross mass (new)
DTM+WAT:201508151527?+0800:208'	New ascertainment DTM 3 days later
TDT+20+567N34+1+HLC:LINES:306+++:::ABC EXPRESS'	Vessel, vessel operator, import voyage
RFF+VON+568S38'	Export voyage
DOC+SM1:VGM:306:WEIGHING CERTIFICATE+ SM1-BY TRM-DOC-ID-200001'	DOC → Method 1 certificate with new ID
DTM+WAT:201508151527?+0800:208'	Ascertainment DTM
DTM+137:201508151732?+0800:208'	Certificate issuing DTM
NAD+WPA+++DPW FREMANTLE+NORTH BEACH ROAD + NORTH FREMANTLE ++WA6159+AU'	Weighing company's (terminal) name and address
CTA+BN+DPW FREMANTLE'	Weighing company's contact reference
COM+QA.FREMANTLE(A)1-STOP.BIZ:EM'	e-mail contact
COM+?+61-08-543210:TE'	Phone contact
COM+ DPW; PORT BEACH ROAD 1;NORTH FREMANTLE WA 6159;AUSTRALIA:MA'	Postal mail contact
NAD+AM+++PAUL COX:C/O DPW+PORT BEACH ROAD 1+NORTH FREMANTLE++WA 6159+AU'	Weighing party's authorized person
CTA+RP+ : PAUL COX'	signature by authorized person



5.8 Carrier to Terminal - Standard information channel

The terminal has to be informed about the VGM.

Data elements that can be transmitted:

- Container ID mandatory
- Carrier's Booking number mandatory
- Seal Number
- Port of Loading
- Final Destination
- Verified Gross Mass mandatory
- Verification Date mandatory
- Vessel Name
- Voyage Number

Reference to VGM Documentation

- The company that holds the VGM documentation (Party Name and contact information)
- Unique reference ID

Optional: Documentation of Gross Mass Verification

- Method used (1 or 2)
- Party (the company) that has ascertained the VGM, Name and Address
- Name of the person who has ascertained the VGM
- Date when the VGM was ascertained.

Example for use case 8: From **carrier to terminal**, standard process. No details about VGM documentation are transmitted. Only a reference to the documentation is provided. In this example the documentation is available at the carrier's office in Singapore.

Example 5.8-1 Terminal to carrier – without detailed VGM documentation

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
RFF+BN:112233-ABC'	Booking number
SEL+ZYX234'	Seal number
LOC+9+AUFRE+CONFR:TERMINALS:306'	Port of loading
LOC+11+PHMNN '	Port of discharge
MEA+AAE+VGM+KGM:21548'	Verified gross mass
DTM+WAT:201508151527-0200:208'	Ascertainment local time and time zone
TDT+20+567N34+1+HLC:LINES:306+++:::ABC EXPRESS'	Vessel, vessel operator, import voyage
RFF+VON+568S38'	Export voyage
DOC+DRF:VGM:306:VGM DOCUMENTATION REFERENCE+VGM-DOC-REF-ID-30000'	DOC → VGM documentation reference with ID
NAD+WC+++HL ASIA+B3 STREET 21:PO BOX 3000+SINGAPORE++6159+SG'	Party holding the documentation
CTA+BN+BOOKING DEPT-VGM'	Party's contact reference
COM+ASIA-VGM(A)HLAG.COM:EM'	e-mail contact
COM+?+61-08-543210:TE'	Phone contact
COM+HAPAG LLOYD ASIA; VGM REF; POBOX 2000;6159 SINGAPORE;SINGAPORE:MA'	Postal mail contact

Example for use case 8A: 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).

Example 5.8-2 Carrier to terminal – with demanded VGM documentation

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
RFF+BN:112233-ABC'	Booking number
SEL+ZYX234'	Seal number
LOC+9+AUFRE+CONFR:TERMINALS:306'	Port of loading
LOC+11+PHMNN '	Port of discharge
MEA+AAE+VGM+KGM:21548'	Verified gross mass
DTM+WAT:201508151527-0200:208'	Local time and time zone
TDT+20+567N34+1+HLC:LINES:306++++:ABC EXPRESS'	Vessel, vessel operator, import voyage
RFF+VON+568S38'	Export voyage
DOC+DRF:VGM:306:VGM DOCUMENTATION REFERENCE+VGM-DOC-REF-ID-30000 '	DOC → VGM documentation reference with ID
NAD+WC+++HL ASIA+B3 STREET 21:PO BOX 3000+SINGAPORE++6159+SG'	Party holding the documentation
CTA+BN+BOOKING DEPT-VGM'	Party's contact reference
COM+ASIA-VGM(A)HLAG.COM:EM'	e-mail contact
COM+?+61-08-543210:TE'	Phone contact
COM+HAPAG LLOYD ASIA; VGM REF; POBOX 2000;6159 SINGAPORE;SINGAPORE:MA'	Postal mail contact
DOC+SHP:VGM:306:SHIPPER INFO+SHP-DOC-ID-10000'	DOC → Shipper's VGM declaration with ID
NAD+AM'	Shipper's auth. person
CTA+RP+ :JOHN P. SMITH'	signature by authorized person
DOC+SM2:VGM:306:METHOD2 CERTIFICATE+SM1-BY TRM-DOC-ID-20000 '	DOC → Method 2 certificate with ID
NAD+WPA+++++AU'	Nationality under whose legislation Method2 has been applied
NAD+AM'	Auth. person to sign for Method2
CTA+RP+ : RUTH MILLER'	signature by authorized person

Address information from shipper and weighing party 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.

5.9 Carrier to the Shipper - Carrier has got knowledge of a weight (e.g. from Terminal) that he forwards to the Shipper

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

Data elements that can be transmitted:

- Container ID mandatory
- Carrier's Booking number
- Shipper's internal reference
- Seal Number
- Port of Loading
- Final Destination
- Verified Gross Mass mandatory
- Verification Date mandatory
- Vessel Name
- Voyage Number

Documentation of Gross Mass Verification

- Method used (1 or 2)
- Party (→ the weighing station) that has ascertained the VGM, Name and Address
- Name of the person who has ascertained the VGM (at the weighing station).
- Unique reference ID of the weighing certificate

Example for use case 9: From **carrier to shipper**, carrier informs shipper about new VGM information received from terminal. The updated VGM information is identical as received by carrier from terminal in case 7.

Example 5.9-1 Carrier to shipper

Edifact	Comment
EQD+CN+HLXU9876543+42G1+++5'	Container ID and type
RFF+BN+123456'	Booking number
RFF+SI+A456C'	Shipper's internal ID
SEL+ZYX234'	Seal number
LOC+9+AUFRE+CONFR:TERMINALS:306'	Port of loading
LOC+11+PHMNL'	Port of discharge
MEA+AAE+VGM+KGM:21548'	Verified gross mass
DTM+WAT:201508151527?+0800:208'	Local time and time zone
TDT+20+567N34+1+HLC:LINES:306+++::ABC EXPRESS'	Vessel, vessel operator, import voyage
RFF+VON+568S38'	Export voyage
DOC+SM1:VGM:306:WEIGHING CERTIFICATE+ SM1-BY TRM-DOC-ID-200001'	DOC → Method 1 certificate with new ID
DTM+WAT:201508151527?+0800:208'	Ascertainment DTM
DTM+137:201508151732?+0800:208'	Certificate issuing DTM
NAD+WPA+++DPW FREMANTLE+NORTH BEACH ROAD + NORTH FREMANTLE ++WA6159+AU'	Weighing company's name and address
CTA+BN+DPW FREMANTLE'	Weighing company's contact reference
COM+QA.FREMANTLE(A)1-STOP.BIZ:EM'	e-mail contact
COM+?+61-08-543210:TE'	Phone contact
COM+ DPW; PORT BEACH ROAD 1;NORTH FREMANTLE WA 6159;AUSTRALIA:MA'	Postal mail contact
NAD+AM+++PAUL COX:C/O DPW+PORT BEACH ROAD 1+NORTH FREMANTLE++WA 6159+AU'	Weighing party's authorized person
CTA+RP+ : PAUL COX '	signature by authorized person

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