VERMAS

Messaging User Guide (EDI)

Technical Guide for the EDI format VERMAS message, in valenciaportpcs's Verified Gross Mass Service

CONTENTS

1 // Introduction

1.1 // Track changes

The following table details the chapters in which changes have been made compared to the document's previous version.

The specific changes made are shown in red throughout the document.

Version	Parts that change	Change description
28-Apr 16	All	Original version
20 May'16	6.20.2. Comments	New qualifier for the document type WSC (Weighing Scale Certification) indicating the weighing equipment certification reference. New rule: The field DocumentIdentifier is mandatory if the document type is SM1.
23 May'16	2.1. Message flow 6.8.2. Comments	New message flow added from the Shipping Agent to the Terminal. In this case, the parties Shipping Agent and the Terminal will be mandatory.
30 May'16	6.20.2. Comments 6.23.2. Comments	Mandatory nature are changed depending on the document type. New document type included. SM1 included in the SG8 – Name And Address indicating the AM code.
23 Jun'16	a) 1.5. Reference documents b) 1.6. Related legislation c) 6.1.3. Elements d) 6.3.3. Elements e) 6.6.2. Comments f) 6.8.2. Comments and 6.8.3. Elements g) 6.13.2. Comments and 6.13.3. Elements h) 6.14.2. Comments and 6.14.3. Elements i) 6.18.2. Comments j) 6.18.3. Elements k) 6.20.2. Comments and 6.20.3. Elements l) 6.21.3. Elements m) 6.23.2. Comments and 6.23.3. Elements	a) Reference to UN/EDIFACT D.16A Directory VERMS Message added b) Reference to Merchant Shipping Resolution 15/06/2016 added c) Element 0020 - Interchange control reference included in the UNB segment d) Element code 1001 - Document name code replaced e) Indicating the BN reference is no longer mandatory f) Changes in the mandatory nature of the parties and the confirmation of the element code 3035 - Party function code qualifier g) ISO container type, element 8155 - Equipment size and type description code no longer mandatory h) BN (booking number) reference added i) Section 6.18.2. Comments added j) Element code 2005 - Date or time or period function code qualifier replaced

	n) 6.25.3. Elements	k) Changes in the mandatory nature of document types. Element 1004 - Document identifier no longer mandatory l) Element code 2005 - Date or time or period function code qualifier replaced m) Change in the mandatory nature of code. Element C082 - PARTY IDENTIFICATION DETAILS no longer mandatory n) Confirmation element code 3139 - Contact function code
13 Jul'16	a) 6.18.2 Comments b) 6.20.2. Comments c) 6.23.2. Comments d) 6.23.3 Elements	a) Changes in the mandatory nature of the weighing date. b) Changes in the mandatory nature of the weighing method and the document reference identifier. c) Added obligation to include the responsible person for weighing company if this is the message sender. d) SPC qualifier added in the equipment's documentation parties.
14 Jul'16	6.23.2. Comments	Added the document type for the signature of the authorized responsable person of the weighing company.
19 Jul'16	5.1. Issues to be considered 6.12.3. Elements 6.19. SG4: … DOC Segment Group 7: Document/Message Details	Mandatory nature of SG7 – Document/Message Details group removed.
26 Jul'16	6.4. DTM – Date/Time/Period	Mandatory nature of DTM group added.
15 Sep'16	6.1.3. Elements 6.13.2. Comments	Syntax identifier changed from UNOA to UNOC. The container plate number must have a valid format.
09 Ene'16	1.5 // Reference documents 2 // Business context and associated messaging	Moved to an annex after the implementation of the response message from Shipping Agent

1.2 // Purpose

The object of this document is to define the user guide for the EDI format message corresponding to *valenciaportpcs*' interchange of information about Verified Gross Mass (VGM), the VERMAS message.

This document is aimed at companies that wish to integrate their internal systems with *valenciaportpcs*' messaging system for the interchange of information about the verified gross mass of containers.

1.3 // Scope

The VERMAS message is normally interchanged between a shipper for maritime transport, a logistics operator or freight forwarder, a groupage company (consolidator or NVOCC), the operator of a container weighing facility, a container terminal operator or stevedoring company, a vessel operator, a carrier, the ship's captain or a container operator.

It is based on a universal practice to control the transport logistics chain and does not depend on the type of business or industry.

In the supply chain which includes the transport of a full container in a vessel, the VERMAS message provides the Verified Gross Mass of a full container, in addition to other relevant supporting information, as legally required under the SOLAS Convention, Chapter VI, Part A, Regulation 2.

The VERMAS message can be used by different parties at various stages of the process chain. It is not used for a specific stage of the process in the transport chain.

The VERMAS is only used to send the verified gross mass, as required by the SOLAS Convention, and other directly related information.

1.4 // Principles

- The VERMAS message includes information about the Verified Gross Mass (VGM) of a full container, the date, time, place and method used to obtain the verified mass, the responsible parties and the references required by the recipient to assign the verified mass to its transactions.

- The message is used to transmit information about one or several containers belonging to a specific transport operation, from a shipper to a shipping agent or carrier.

- The message can be interchanged between any two parties in the maritime transport chain by mutual consent. The sender may have obtained the VGM themselves, or can forward a VGM it has received from a third party. Each party in the transport chain can be a sender or recipient of a VERMAS message.

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

- VERMAS is a short message with a clear purpose. It is only used to transmit the VGM and other directly related information, as required by SOLAS.

- The VERMAS message must not be used as a handling order.

- The message must not be used to report information about empty containers.

- The SOLAS Convention has been ratified, and therefore applies to literally all the world's coastal states. However, at the time of developing the VERMAS message not all the states had published their national legislation. Future legislative changes may result in additional information requirements that may lead to improved message scope.

- According to the type of cargo, new attributes such as temperature control, identification of dangerous goods, off-standard dimensions, and handling requirements may be added.

1.5 // Reference documents

This user guide is based on the following reference documents.

Reference	Document name	Version	Source	Link
VERMAS 04 11/15 TR	VERMAS User Guide	03/11/2015 0.4 (D15A)	SMDG	http://www.smdg.org/assets/assets/VERMAS-04.pdf
V2-9735	EDIFACT Application level syntax rules (ISO-9735 v2)	01/11/1990	GEFEG	http://www.gefeg.com/jswg/v3/data/v2-9735.pdf
UN/EDIFACT D.16A Directory	D.16A Directory VERMAS Message	08/06/2016	Unece.org	http://www.unece.org/fileadmin/DAM/trade/untdid/d16a/trmd/vermas_c.htm
PCS17-VERMS002	Annex Business Context and Related Messaging	08/02/2017	Valenciaportpcs	

1.6 // Related legislation

The applicable legislation is framed in the set of amendments agreed upon by the International Maritime Organisation (IMO) within the SOLAS Convention on the Safety of Life at Sea, published in the following documents. Similarly, the transposition of these amendments at national level comes under Resolution 15/06/2016 of the Directorate General for Merchant Shipping.

Reference	Date	Document	Link
Resolution MSC.380(94)	21/11/2014	IMO Guidelines Regarding The Verified Gross Mass of a Container Carrying Cargo (SOLAS chapter VI, part A, regulation 2)	http://www.imo.org/en/OurWork/Safety/Cargoes/Containers/Documents/resolution%20MSC-380-94.pdf
MSC.1/Circ. 1475	09/06/2014	IMO Guidelines Regarding the Verified Gross Mass of a Container Carrying Cargo	http://www.imo.org/en/OurWork/Safety/Cargoes/Containers/Documents/MSC.1%20Circ.1475.pdf
Resolution 15/06/2016	15/06/2016	Merchant Shipping Resolution on the verification of the gross mass of containers	http://www.valenciaportpcs.com/media/1264/resolucion_dgmm_sobre_vgm_150616.pdf

1.7 // Abbreviations and acronyms

The acronyms and abbreviations used in this document are listed below.

Term	Meaning
PAV	Port Authority of Valencia
EDI	Electronic Data Interchange
IMO	International Maritime Organization

ISO	International Organization for Standardization
MSC	Maritime Safety Committee
PCS	Valenciaportpcs
SMDG	Ship-planning Message Design Group
SOLAS	Safety of Life at Sea
UN/CEFACT	United Nations Centre for Trade Facilitation and Electronic Business
UN/EDIFACT	United Nations Electronic Data Interchange for Administration, Commerce and Transport
UN/LOCODE	United Nations Code for Trade and Transport Locations
VERMAS	Verified Gross Mass Message
VGM	Verified Gross Mass

2 // Business context and associated messaging

Business context and associated messaging are available in then annex Annex Business Context and Related Messaging [PCS17-VERMS002].

3 // Encoded data

Some of the aforementioned details must be encoded, and are contrasted against valid code tables which are used by valenciaportpcs.net. The valid codes for each piece of information can be consulted via the Web Service, either to directly integrate the user's application with valenciaportpcs.net, or to obtain the most recent valid code lists for a specific piece of information.

This encoded data and the URL which contains the web method to consult these codes are listed below. The Web Service for all these queries is http://www.valenciaportpcs.net/services/lookup.asmx, i.e. each specific method always has this common root. To activate this, add "*?op=*" to the chain root, followed by the specific Web Method (for example, http://www.valenciaportpcs.net/services/lookup.asmx?op=SearchLocations). To avoid confusion, this table only features the web method names.

Information	URL
Organisation codes	www.valenciaportpcs.net/services/lookup.asmx?op=SearchOrganizationsWithTicket
Country codes	www.valenciaportpcs.net/services/lookup.asmx?op=SearchIsoCountries
Place/Port codes	www.valenciaportpcs.net/services/lookup.asmx?op=SearchLocations
Container type codes	www.valenciaportpcs.net/services/lookup.asmx?op=SearchIsoContainerTypes
Carrier's SCAC code	www.valenciaportpcs.net/services/lookup.asmx?op=SearchMaritimeCarriers
Vessel codes	www.valenciaportpcs.net/services/lookup.asmx?op=NewSearchVesselPortCallsWithVoyageType

More information can be obtained about each one (on-line documentation, returned data, etc.) by consulting the methods directly using a web browser.

In order to access the web methods which need a connection ticket the user must have previously activated the ***valenciaportpcs*** Login service https://www.valenciaportpcs/services/login.asmx?op=Login), as a system-registered user, and have obtained a valid ticket from this service to be able to subsequently make these queries.

4 // Special considerations: format and content

4.1 // Status indicators

The status indicators ("M" and "C") form part of the EDIFACT standard and indicate a minimum requirement to fulfil the needs of the message structure. These indicators are:

Value	Description
M	Mandatory
	This entity must appear in all messages.
C	Conditional
	This entity is only necessary if a particular event or situation occurs. It usually depends on specific business situations and is used by agreement between the parties to the transaction.

4.2 // Usage indicators

Usage indicators depend on the specific implementation of the message and therefore specify the conditional status indicators for this implementation. These indicators specify the agreed use for each element or entity, and thus are the indicators used in this document's tables. These indicators are:

Value	Description
M	Mandatory
	Indicates that the entity is mandatory according to the EDIFACT standard.
R	Required
	Indicates that the entity is mandatory in this implementation of the message.
D	Dependent
	Indicates that the use of the entity depends on a particular condition which is clearly defined in the implementation guide.
O	Optional
	Indicates that this entity is optional.
X	Not used
	Indicates that this entity is not to be used in this implementation of the message. These elements are ~~crossed out~~ in this guide.

4.3 // Other remarks

- The data tables for each segment also feature the **intermediate** data which are not used in this implementation of the message. However, all the data at the end of each segment which are not used have not been included for readability.
- The first column of the data tables for each segment shows the standard status indicators, and the penultimate column shows the usage indicators (i.e. the specific use of each piece of data in this implementation of the guide).
- As in any specific implementation of a guide based on the EDI standard, not all the data that *valenciaportpcs* has used for this document interchange appear in the standard. Thus, some of the codes used in this guide do not appear in the standard.

5 // Message structure

The VERMAS message structure, according to the UN/CEFACT D.16A Directory (on which this guide is based), is as follows:

```
Pos     Tag Name                                          S    R

0010    UNH Message Header                                M    1
0020    BGM Beginning of Message                          M    1
0030    DTM Date/Time/Period                              C    9

0040        ----- Segment group 1 ------------------ C    9---------------+
0050    RFF Reference                                     M    1               |
0060    DTM Date/Time/Period                              C    9---------------+

0070        ----- Segment group 2 ------------------ C    9---------------+
0080    NAD Name and Address                              M    1               |
                                                                               |
0090        ----- Segment group 3 ------------------ C    9---------------+|
0100    CTA Contact Information                           M    1              ||
0110    COM Communitacion Contact                        C    9--------------++

0120        ----- Segment group 4 ------------------ C    99999------------+
0130    EQD Equipment Details                             M    1               |
0140    RFF Reference                                     C    9               |
0150    LOC Place/Location Identification                 C    9               |
0160    SEL Seal Number                                   C    99              |
                                                                               |
0170        ----- Segment group 5 ------------------ C    9--------------+|
0180    MEA Measurements                                  M    1              ||
0190    DTM Date/Time/Period                              C    9--------------+|
                                                                               |
0200        ----- Segment group 6 ------------------ C    9--------------+|
0210    TDT Transport Information                         M    1              ||
0220    RFF Reference                                     C    9--------------+|
                                                                               |
0230        ----- Segment group 7 ------------------ C    9--------------+|
0240    DOC Document/Message Details                      M    1              ||
0250    DTM Date/Time/Period                              C    9              ||
                                                                              ||
0260        ----- Segment group 8 ------------------ C    9--------------+||
0270    NAD Name and Address                              M    1             |||
                                                                             |||
0280        ----- Segment group 9 ------------------ C    9------------+|||
0290    CTA Contact Information                           M    1            ||||
0300    COM Communitacion Contact                        C    9------------++++

0310    UNT Message Trailer                               M    1
```

5.1 // Issues to be considered

The following table shows the VERMAS standard segments used in this implementation of the guide. The maximum repetitions and mandatory nature shown in this summary table also reflect whether there are any differences between this particular implementation and the standard.

0005	UNB	Interchange Header	~~C~~ M	1	
0010	UNH	Message Header	~~C~~ M	1	
0020	BGM	Beginning of Message	~~C~~ M	1	
0030	DTM	Date/Time/Period	~~C~~ M	1	
0040		Segment Group 1: RFF-~~DTM~~	C		~~9~~ 6
0050	RFF	Reference	M	1	
0070		Segment Group 2: NAD-SG3	~~C~~ M		~~9~~ 6

0080	NAD	Name and Address	M	1	
0090		Segment Group 3: CTA-COM	C		~~9~~ 3
0100	CTA	Contact Information	M	1	
0110	COM	Communication Contact	C	~~9~~ 4	
0120		Segment Group 4: EQD-RFF-~~LOC~~-SEL-SG5-SG6-SG7	~~C~~ M		99999
0130	EQD	Equipment Details	M	1	
0140	RFF	Reference	C	~~9~~ 4	
0160	SEL	Seal Number	C	~~99~~ 6	
0170		Segment Group 5: MEA-DTM	~~C~~ M		~~9~~ 1
0180	MEA	Measurements	M	1	
0190	DTM	Date/Time/Period	C	~~9~~ 1	
0230		Segment Group 7: DOC-DTM-SG8	C ~~M~~		~~9~~ 4
0240	DOC	Document/Message Details	M	1	
0250	DTM	Date/Time/Period	C	~~9~~ 2	
0260		Segment Group 8: NAD-SG9	C		~~9~~ 5
0270	NAD	Name and Address	M	1	
0280		Segment Group 9: CTA-COM	C		~~9~~ 2
0290	CTA	Contact Information	M	1	
0300	COM	Communication Contact	C	~~9~~ 4	
0310	UNT	Message Trailer	~~C~~ M	1	
0320	UNZ	Interchange Trailer	~~C~~ M	1	

6 // VERMAS message elements

6.1 // UNB – Interchange Header

Segment:	**UNB**	Interchange Header
Position:	**0005**	
Group:		
Level:	0	
Usage:	Mandatory ~~Conditional (Optional)~~	
Max. Use:	1	

6.1.1. Purpose

Initial group of elements used to identify and specify the message sender, recipient and the date it is sent.

6.1.2. Comments

- The message sender (*Sender identification*) must coincide with at least one of the parties defined in the SG2 (*NAD - Name and Address*) group of elements when messages are sent to **valenciaportpcs**.

- The *Sender identification* element must be the registered sending organisation's **valenciaportpcs** code or Tax Id. number.

- If the message sender is **valenciaportpcs**, the *Sender identification* element must contain the value **VALENCIAPORT**, and the *Recipient identification* element must contain the code assigned by **valenciaportpcs** to the organisation receiving the message.

- When the message function is replacement, both the message sender and the recipient, that is to say, the elements *Sender identification* and *Recipient identification* must be the same than the original message.

6.1.3. Elements

Data Element	Component Element	Name	Attributes		
M	S001		SYNTAX IDENTIFIER	M	
M		0001	Syntax identifier	M	an..6
		UNOC	*Indicating the use of level 'AC' character set.*		
M		0002	Syntax version number	M	n1
		2	*Indicating the version number '2' of the syntax identifier.*		
M	S002		INTERCHANGE SENDER	M	
M		0004	Sender identification	M	an..35
			Name code of the message sender.		
			*The organisation's **valenciaportpcs** code, Tax Id. Number or VALENCIAPORT.*		
~~X~~		~~0007~~	~~Identification Code Qualifier~~	~~C~~	~~an..4~~
~~X~~		~~0008~~	~~Interchange sender internal identification~~	~~C~~	~~an..14~~
M	S003		INTERCHANGE RECIPIENT	M	
M		0010	Recipient identification	M	an..35
			Name code of the message recipient.		
			*The organisation's **valenciaportpcs** code.*		

			Accepted values for messages sent to **valenciaportpcs**: • VALENCIAPORT		
~~X~~		~~0007~~	~~Identification Code Qualifier~~	~~C~~	~~an..4~~
~~X~~		~~0014~~	~~Interchange Recipient Internal Identification~~	~~C~~	~~an..14~~
M	S004		DATE/TIME OF PREPARATION	M	
M		0017	Date	M	n6
			Date the message is sent, in YYMMDD format		
M		0019	Time	M	n4
			Time the message is sent, in HHMM format		
M	S005	0020	Interchange control reference	M	an..14
			Unique identifier assigned by sender.		

6.1.4. EDI example

Message sent by the user
UNB+UNOC:2+SENDER ID+VALENCIAPORT+160315:1708+Interchange ref'

Message sent by valenciaportpcs
UNB+ UNOC:2+VALENCIAPORT+RECEIVER ID+160315:1708+Interchange ref'

6.2 // UNH – Message Header

Segment: **UNH** **Message Header**
Position: 0010
Group:
Level: 0
Usage: Mandatory ~~Conditional (Optional)~~
Max. Use: 1

6.2.1. Purpose

Group of elements used to identify a message and indicate its type.

6.2.2. Comments

- Each message sent by the user to **valenciaportpcs** must have a unique message number.

6.2.3. Elements

Data Element	Component Element	Name Attributes			
M	0062		MESSAGE REFERENCE NUMBER	M	an..14
			Unique reference assigned by the sender to identify the message. If sent by **valenciaportpcs**, the reference structure will have the following pattern: **VPRTACCCCCCCCC** Where:		

			• **VPRT**: an4. *Valenciaportpcs* identification code • **A**: an1. Last digit of the current year • **CCCCCCCCC**: an..9. Item number which completes the unique identifier		
M	S009		**MESSAGE IDENTIFIER**	M	
			Element group to identify the type, version, etc. of the interchanged message.		
M		0065	**Message type identifier**	M	an..6
			VERMAS	*SOLAS verified gross mass.*	
M		0052	**Message type version number**	M	an..3
			D	*Draft version UN/EDIFACT Directory.*	
M		0054	**Message type release number**	M	an..3
			16A	*Release 2016 – A*	
M		0051	**Controlling agency**	M	an..2
			UN	*UN/CEFACT*	
O		0057	**Association assigned code**	M	an..6
			Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message.		
			VP-VGM	Valenciaport, Verified Gross Mass Service (VGM)	
~~O~~	~~0068~~		~~COMMON ACCESS REFERENCE~~	~~O~~	~~an..35~~
			~~Reference serving as a key to relate all subsequent transfers of data to the same business case or file.~~		
~~O~~	~~S010~~		~~STATUS OF THE TRANSFER~~	~~O~~	
			~~Statement that the message is one in a sequence of transfers relating to the same topic.~~		
~~M~~		~~0070~~	~~Sequence message transfer number~~	~~M~~	~~an..2~~
			~~Number assigned by the sender indicating that the message is an addition or change of a previously sent message relating to the same topic.~~		
~~O~~		~~0073~~	~~First/last sequence message transfer indication~~	~~C~~	~~a1~~
			~~Indication used for the first and last message in a sequence of the same type of message relating to the same topic.~~		
			~~CODE~~	~~VALUE~~	

6.2.4. EDI example

UNH+VERMAS ID+VERMAS:D:16A:UN:VP-VGM'

6.3 // BGM – Beginning of Message

Segment:	**BGM** Beginning of Message
Position:	0020
Group:	
Level:	0
Usage:	Mandatory ~~Conditional (Optional)~~
Max. Use:	1

6.3.1. Purpose

Group of elements used to identify the document that contains this message and the message function.

6.3.2. Comments

- Only original and replacement message functions are accepted (codes *9* and *5* in the *Message Function Code* field).

- The document number (*Document identifier*) is automatically generated by **valenciaportpcs**. It is provided in the APERAK acknowledgment message and must be left blank in an original function message. It can be used to identify a specific message when subsequent replacement messages are sent.

- The document number format generated by **valenciaportpcs** is as follows: **CCCCYYMMDDnnnnnnnn**, where *CCCC* is the code assigned by *valenciaportpcs* to the document sender, *YYMMDD* is the date the document is created (year, month, day), and the rest (*nnnnnnnn*) is a sequential number which is reset at the start of each year. The CCCC pattern of the document number must include the value VPRT for organisations that are not registered with **valenciaportpcs.**

- When the message function is a replacement, the message sender must identify the document to be replaced with the document number (*Document identifier*). This reference cannot be modified in a replacement.

6.3.3. Elements

Data Element	Component Element	Name	Attributes	
R	C002		DOCUMENT/MESSAGE NAME	C	
R		1001	Document name code	C	an..3
		749	*Transport equipment gross mass verification message.*		
X		1131	Code list identification code	C	an..17
X		3055	Code list responsible agency code	C	an..3
O		1000	Document name	C	an..35
R	C106		DOCUMENT/MESSAGE IDENTIFICATION	C	
			Identification of a document/message by its number and eventually its version or revision.		
R		1004	Document identifier	C	an..70
			Reference number assigned by the sender to the document.		
			Document number		
X		1056	Version identifier	C	an..9
		1.0			
X		1060	Revision identifier	C	an..6
R	1225		MESSAGE FUNCTION CODE	M	an..3
			Message function Accepted values: • **9:** Original • **5:** Replacement • 1: Cancellation		
R	4343		RESPONSE TYPE CODE	C	an..3
			Code specifying the type of acknowledgement required or transmitted		
R	1373		DOCUMENT STATUS CODE	C	an..3
			Code specifying the status of a document		
R	3453		LANGUAGE NAME CODE	C	an..3
			Code specifying the language name		

6.3.4. EDI example

```
BGM+749+:1.0+9'
```

6.4 // DTM – Date/Time/Period

Segment:	**DTM** Date/Time/Period	
Position:	0030	
Group:		
Level:	0	
Usage:	Mandatory	
Max. Use:	1	

6.4.1. Purpose

Group of elements which indicates the date and time associated with the complete document.

6.4.2. Elements

Data Element	Component Element	Name Attributes		
M	C507		DATE/TIME/PERIOD	C	
M		2005	**Date or time or period function code qualifier**	M	an..3
			Function of the date.		
		137		Document issue date/time.	
				This information is automatically filled in by ***valenciaportpcs*** and should be left blank.	
R		2380	**Date or time or period text**	M	an..35
			Value of the date/time.		
R		2379	**Date or time or period format code**	C	an..3
			Format of the date/time.		
		203		*CCYYMMDDHHMM*	
				Calendar date: C=Century; Y=Year; M=Month; D=Day, H=Hour, MM=Minute	

6.4.3. EDI example

```
DTM+137:201603151537:203'
```

6.5 // RFF Segment Group 1: Reference

Segment:	**RFF** Segment Group 1: Reference	
Position:	0040	
Group:		
Level:	1	
Usage:	Conditional (Optional)	
Max. Use:	~~9~~ 6	

6.5.1. Purpose

Group of elements which contains different references associated with the document.

6.5.2. Elements

	Data Element	Component Element	Name	Attributes		
M	0050	RFF	Reference		M	1
O	0060	DTM	Date/Time/Period		C	1

6.6 // SG1: … RFF Reference

Segment:	**RFF** Reference
Position:	0050 (Trigger Segment)
Group:	Segment Group 1 (Reference) Mandatory ~~Conditional (Optional)~~
Level:	1
Usage:	Mandatory ~~Conditional (Optional)~~
Max. Use:	1

6.6.1. Purpose

Elements used to include the different references associated with the document.

6.6.2. Comments

- Two references with the same code cannot be repeated.

- If a reference is specified, the reference identifier (*Reference identifier* field) must be indicated.

- If a booking number is specified (code *BN* in the *Reference function code qualifier* field) it will be applicable to all the containers included in the SG4 (*RFF – Reference*). Therefore, a VERMAS message must only include containers belonging to the same booking.

- If a Shipper's identification number is specified (code *SI* in the *Reference function code qualifier* field) it will be applicable to all the containers.

- The reference with the qualifier *MS* is used by **valenciaportpcs** to provide the Tax Id. number of the sender of the original message. When **valenciaportpcs** is the sender of the message, it is used to inform the recipient about who originally sent the message. This reference must be left blank.

6.6.3. Elements

	Data Element	Component Element	Name	Attributes		
M	C506		**REFERENCE**		M	
			Identification of a reference.			
M		1153	**Reference function code qualifier**		M	an..3

			Code qualifying a reference.		
			Code which identifies the reference type		
			Accepted values:		
			• **AAS:** *Transport contract document identifier*		
			• **ABE:** *Declarant's reference number*		
			• ~~**ACW:** Reference number to previous message~~		
			• **AFB:** *Cargo manifest number*		
			• ~~**AGO:** Sender's reference to the original message~~		
			• **MS:** *Message sender*		
			• **SI:** *SID (Shipper's identifying number for shipment)*		
			• **BN:** *Consignment identifier, carrier assigned (i.e. booking number)*		
O		**1154**	**Reference identifier**	~~C~~ **M**	**an..70**
			Identifies a reference.		
~~O~~		~~1156~~	~~Document line identifier~~	~~C~~	~~an..6~~
			~~Identifies a line of a document.~~		
~~O~~		~~1056~~	~~Version identifier~~	~~C~~	~~an..9~~
			~~To identify a version.~~		
~~O~~		~~1060~~	~~Revision identifier~~	~~C~~	~~an..6~~
			~~To identify a revision.~~		

6.6.4. EDI example

RFF+BN:112233-ABC'

6.7 // NAD Segment Group 2: Name and Address

Segment: **NAD** Segment Group 2: Name and Address
Position: 0070
Group:
Level: 1
Usage: Mandatory ~~Conditional (Optional)~~
Max. Use: ~~9~~ 6

6.7.1. Purpose

Group of elements to identify a party for the entire message, including the message sender and related contacts.

6.7.2. Elements

	Data Element	Component Element	Name Attributes			
M	0080	NAD	Name and Address	M	1	
	0090		Segment Group 3: Contact Information	C		~~9~~ 3

6.8 // SG2: … NAD Name and Address

Segment: <u>**NAD**</u> **Name and Address**
Position: 0080 (Trigger Segment)
Group: Segment Group 2 (Name and Address) Mandatory ~~Conditional~~
~~(Optional)~~
Level: 1
Usage: Mandatory
Max. Use: 1

6.8.1. Purpose

Element which contains the details of one of the agents or parties involved in the document, including their contact details, which apply to the entire document.

6.8.2. Comments

- The parties involved cannot be repeated.

- If a ***valenciaportpcs*** code for an involved party (*Party identifier*) is indicated, it must be a valid code.

- The Carrier must be included (SCAC code) (code *CA* in the *Party Function Code Qualifier* field).

- Depending on which organisation sends the message (*Sender identification* field in the *UNB – Interchange Header* group), the corresponding involved party must be informed:

  - o If the message sender is a shipper, the organisation must be included as an involved party with the code *SPC* in the *Party Function Code Qualifier* field, and must be assigned the role of *shipper.*

  - o If the message sender is a freight forwarder, the organisation must be included as an involved party with the code *CZ* in the *Party Function Code Qualifier* field, and must be assigned the role of *freight forwarder.*

  - o If the message sender is a weighing company, the organisation must be included as an involved party with the code *WPA* in the *Party Function Code Qualifier* field, and must be assigned the role of *weighing company.*

  - o If the message sender is a shipping agent, the organisation must be included as an involved party with the code *CF* in the *Party Function Code Qualifier* field, and must be assigned the role of *shipping agent.*

  - o If the message sender is a terminal, the organisation must be included as an involved party with the code *TR* in the *Party Function Code Qualifier* field, and must be assigned the role of *terminal.*

- If the container is **weighed at the terminal**, the terminal must be included as such (code *TR* in the *Party Function Code Qualifier* field) and as the company in charge of the weighing (code *WPA* in the *Party Function Code Qualifier* field).

- When **communication** takes place between the **shipping agent and the terminal**, both the shipping agent and the terminal must be included.

- When the Shipping Agent is indicated (code *CF* in the *Party Function Code Qualifier* field), this organisation must be registered in ***valenciaportpcs*** and must coincide with the Carrier's local agent.

- When the terminal is indicated (code *TR* in the *Party Function Code Qualifier* field), this organisation must be registered in ***valenciaportpcs*** as a *terminal operator.*

- **For organisations registered** with ***valenciaportpcs,*** at least one of the following fields must be included for each party: their ***valenciaportpcs*** code or their Tax Id. Number in the *Party Identifier* field.

    o   In this case, the type of party identifier code must be indicated with one of these two codes in the *Code list identification code* field:

        ▪   A *PCS* code to indicate that the party identifier is a code assigned by ***valenciaportpcs***. This code must be used when indicating the carrier's SCAC.

        ▪   A *CIF* code to indicate that the party identifier is a Tax Id. number.

- For organisations that are not registered with ***valenciaportpcs,*** the Tax Id. Number must be included in the *Party Identifier* field for each party.

- If the message function is a replacement, the identifier of the involved parties cannot be modified.

- The country's ISO code (*Country Identifier* field) must be a valid code.

6.8.3. Elements

Data Element	Component Element	Name	Attributes		
M	3035		PARTY FUNCTION CODE QUALIFIER	M	an..3
			Code giving specific meaning to a party.		
			Code which identifies the type of agent or involved party. Accepted values: • **CF:** *Container operator/lessee* • **CZ:** *Consignor* • ~~**DEI:** *Means of transport operator*~~ • ~~**GF:** *Slot charter party*~~ • ~~**PQ:** *Certifying party*~~ • **SPC:** *SOLAS verified gross mass responsible party* • **TR:** *Terminal operator* • **WPA:** *Weighing party* • **CA:** *Carrier*		
R	C082		PARTY IDENTIFICATION DETAILS	~~C~~ M	
			Identification of a transaction party.		
R		3039	**Party identifier**	M	an..35
			Code specifying the identity of a party		
			Code assigned by ***valenciaportpcs*** to this agent or involved party, or Tax Id. Number for non-registered organisations.		
R		1131	**Code list identification code**	~~C~~ M	an..17
			Code identifying a user or association maintained code list		
			Code which identifies the type of party identifier. Accepted values: • **PCS:** *PCS Code* • **CIF:** *CIF Code*		
~~X~~		~~3055~~	~~Code list responsible agency code~~	~~C~~	~~an..3~~
~~X~~	~~C058~~		~~NAME AND ADDRESS~~	~~C~~	
			~~*Unstructured name and address: one to five lines*~~		
~~X~~		~~3124~~	~~Name and address description~~	~~M~~	~~an..35~~
~~X~~		~~3124~~	~~Name and address description~~	~~C~~	~~an..35~~
~~X~~		~~3124~~	~~Name and address description~~	~~C~~	~~an..35~~
~~X~~		~~3124~~	~~Name and address description~~	~~C~~	~~an..35~~
~~X~~		~~3124~~	~~Name and address description~~	~~C~~	~~an..35~~
O	C080		PARTY NAME	C	

			Identification of a transaction party by name, one to five lines. Party name may be formatted.		
M		3036	**Party name**	M	~~an..70~~ **an..80**
			Name of the agent or involved party		
~~O~~		~~3036~~	~~Party name~~	~~C~~	~~an..70~~
~~O~~		~~3036~~	~~Party name~~	~~C~~	~~an..70~~
~~O~~		~~3036~~	~~Party name~~	~~C~~	~~an..70~~
~~O~~		~~3036~~	~~Party name~~	~~C~~	~~an..70~~
~~O~~		~~3045~~	~~Party name format code~~	~~C~~	~~an..3~~
O	C059		**STREET**	C	
			To specify the address or postal code.		
M		3042	**Street and number or post office box identifier**	M	~~an..35~~ **an..25 0**
			Address of the agent or involved party (street, number, and other details, except the city and postal code)		
~~O~~		~~3042~~	~~Street and number or post office box identifier~~	~~C~~	~~an..35~~
~~O~~		~~3042~~	~~Street and number or post office box identifier~~	~~C~~	~~an..35~~
~~O~~		~~3042~~	~~Street and number or post office box identifier~~	~~C~~	~~an..35~~
O	3164		**CITY NAME**	C	an..35
			Name of the city/town.		
~~O~~	~~C819~~		~~COUNTRY SUBDIVISION DETAILS~~	~~C~~	
~~O~~		~~3229~~	~~Country subdivision name code~~	~~C~~	~~an..9~~
~~O~~		~~1131~~	~~Code list identification code~~	~~C~~	~~an..17~~
~~O~~		~~3055~~	~~Code list responsible agency code~~	~~C~~	~~an..3~~
~~O~~		~~3228~~	~~Country subdivision name~~	~~C~~	~~an..70~~
O	3251		**POSTAL IDENTIFICATION CODE**	C	an..17
			Postal/zip code.		
O	3207		**COUNTRY IDENTIFIER**	C	an..3
			Identification of the name of the country or geographical entity as defined in ISO 3166-1 and UN/CEFACT Recommendation 3.		

6.8.4. EDI example

Message sent by the shipper
NAD+SPC+TAX ID:CIF++VGM RESPONSIBLE PARTY+B1 STREET 100 PO BOX 1000+C CITY++9000+ES'

6.9 // SG2: … CTA Segment Group 3: Contact Information

Segment: **CTA** **Segment Group 3: Contact Information**
Position: 0090
Group: Segment Group 2 (Name and Address) Mandatory ~~Conditional (Optional)~~
Level: 2
Usage: Conditional (Optional)
Max. Use: ~~9~~ 3

6.9.1. Purpose

Group of elements to identify the communication contact for the party.

6.9.2. Elements

	Data Element	Component Element	Name	Attributes		
M	0100	CTA	Contact Information		M	1
O	0110	COM	Communication Contact		C	~~9~~ 4

6.10 // SG2: … SG3 … CTA Contact Information

Segment: **CTA** Contact Information
Position: 0100 (Trigger Segment)
Group: Segment Group 3 (Contact Information) Conditional (Optional)
Level: 2
Usage: Mandatory
Max. Use: 1

6.10.1. Purpose

Elements indicated to identify a person or department for the agent or involved party.

6.10.2. Comments

- The contact person's name or the contact department must be indicated.
- Same type contact names cannot be repeated.

6.10.3. Elements

	Data Element	Component Element	Name Attributes		
O	3139		CONTACT FUNCTION CODE	~~C~~ **M**	an..3
			Code which identifies the contact type Accepted values: • **BN:** *Certification contact* • **CW:** *Confirmed with* • **MS:** *Message sender contact*		
O	C056		CONTACT DETAILS	~~C~~ **M**	
			Code and/or name of a contact such as a department or employee.		
O		3413	Contact identifier	C	an..17
			To identify a contact, such as a department or employee.		
O		3412	Contact name	~~C~~ **M**	~~an..256~~ **an..70**
			Name of a contact, such as a department or employee.		

6.10.4. EDI example

CTA+MS+:VGM RESPONSIBLE PARTY'

6.11 // SG2: … SG3: … COM Communication Contact

Segment: <u>COM</u> **Communication Contact**
Position: 0110
Group: Segment Group 3 (Contact Information) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max. Use: ~~9~~ 4

6.11.1. Purpose

Element which contains the contact means for the contact person or contact department.

6.11.2. Comments

- Both the contact type and the contact details must be indicated.
- The same types of contact means cannot be repeated.

6.11.3. Elements

Data Element	Component Element	Name Attributes		
M	C076		COMMUNICATION CONTACT	M	an..3
			Communication number of a department or employee in a specified channel.		
M		3148	**Communication number**	M	~~an..512~~ **an..250**
			To identify a communication address.		
M		3155	**Communication means type code**	M	an..3
			Code which identifies the contact means Accepted values: • **AL:** *Cellular phone* • **AM:** *International telephone direct line* • **EM:** *Electronic mail* • **MA:** *Mail*		

6.11.4. EDI example

COM+NAME@VGM_PARTY.COM:EM'

6.12 // EQD Segment Group 4: Equipment Details

Segment: <u>EQD</u> **Segment Group 4: Equipment Details**
Position: 0120
Group:
Level: 1

| | | | Usage: | Mandatory ~~Conditional (Optional)~~ |
| | | | Max. Use: | 99999 |

6.12.1. Purpose

Group of elements used to transmit information about a full container, its verified gross mass (VGM), other transport information and VGM documentation.

6.12.2. Comments

- At least one repetition of this group of elements must be indicated.

- When the message function is replacement, adding or deleting containers regarding to the original message is not allowed, that is to say, it must be the same containers than in the original message.

6.12.3. Elements

	Data Element	Component Element	Name	Attributes			
M	0130	EQD	Equipment Details	M	1		
O	0140	RFF	Reference	C	~~9~~ 4		
~~O~~	~~0150~~	~~LOC~~	~~Place/Location Identification~~	~~C~~	~~9~~		
O	0160	SEL	Seal Number	C	~~9~~ 6		
	0170		Segment Group 5: Measurements	~~C~~ M		~~9~~ 1	
	~~0200~~		~~Segment Group 6: Transport Information~~	~~C~~		~~9~~	
	0230		Segment Group 7: Document/Message Details	C ~~M~~		~~9~~ 4	

6.13 // SG4: … EQD Equipment Details

Segment:	**EQD** **Equipment Details**
Position:	0130 (Trigger Segment)
Group:	Segment Group 4 (Equipment Details) Mandatory ~~Conditional (Optional)~~
Level:	1
Usage:	Mandatory
Max. Use:	1

6.13.1. Purpose

Element which contains detailed information about the full container.

6.13.2. Comments

- The container plate number must be indicated (*Equipment identifier* field) and it must have a valid format.

- Plate numbers must not be repeated in different containers in the same document.

- If the type of container is specified (*Equipment size and type description code*), it must be a valid ISO 6346 standard code.

- If the message function is replacement, it is not allowed to modify the plate number of any container (field *Equipment identifier*).

6.13.3. Elements

Data Element	Component Element		Name Attributes		
M	8053		EQUIPMENT TYPE CODE QUALIFIER	M	an..3
			Code to qualify the type of equipment.		
			CN	*Container*	
O	C237		EQUIPMENT IDENTIFICATION	~~C~~ **M**	
O		8260	Equipment Identifier	~~C~~ **M**	~~an..17~~ **an..11**
			Container plate number		
~~X~~		~~1131~~	~~Code list identification code~~	~~C~~	~~an..17~~
			~~Code identifying a user or association maintained code list.~~ ~~Accepted values:~~ ~~6346: Container ID according to ISO 6346~~		
~~D~~		~~3055~~	~~Code list responsible agency code~~	~~C~~	~~an..3~~
			~~Code specifying the agency responsible for a code list.~~ ~~Accepted values:~~ ~~5: ISO~~		
~~X~~		~~3207~~	~~Country name code~~	~~C~~	~~an..3~~
D	C224		EQUIPMENT SIZE AND TYPE	C	
O		8155	Equipment size and type description code	C	~~an..10~~ **an..4**
			ISO container type, as per the ISO 6346 standard		
~~O~~		~~1131~~	~~Code list identification code~~	~~C~~	~~an..3~~
~~O~~		~~3055~~	~~Code list responsible agency code~~	~~C~~	~~an..3~~
O		8154	Equipment size and type description	C	an..35
			Description of the type of container		
~~O~~	~~8077~~		~~EQUIPMENT SUPPLIER CODE~~	~~C~~	~~an..3~~
~~O~~	~~8249~~		~~EQUIPMENT STATUS CODE~~	~~C~~	~~an..3~~
			~~Code which identifies the type of operation.~~ ~~Accepted values:~~ ~~3: Import~~ ~~2: Export~~ ~~6: Transhipment~~ ~~10: Positioning~~ ~~15: Returned~~		
~~O~~	~~8169~~		~~FULL OR EMPTY INDICATOR CODE~~	~~C~~	~~an..3~~
			~~Code indicating whether an object is full or empty.~~ ~~Accepted values:~~ ~~5: Full~~		
~~O~~	~~4233~~		~~MARKING INSTRUCTIONS CODE~~	~~C~~	~~an..3~~
			~~Code specifying instructions for marking.~~		

6.13.4. EDI example

EQD+CN+HLXU9876543+42G1'

6.14 // SG4: … RFF Reference

Segment:	**RFF** Reference		
Position:	0140		
Group:	Segment Group 4 (Equipment Details) Mandatory ~~Conditional (Optional)~~		
Level:	2		
Usage:	Conditional (Optional)		
Max. Use:	~~9~~ 4		

6.14.1. Purpose

Element to specify a container reference.

6.14.2. Comments

- Same type references cannot be repeated.

- The locator code (code *ILA* in the *Reference function code qualifier* field) is a unique alphanumeric identifier which clearly identifies the Acceptance Order associated with the container.

- If a reference is specified, the reference identifier (*Reference identifier* field) must be indicated (*Reference identifier* field).

- If the booking number is not specified at message header level, i.e. in the *SG1 RFF - Reference* group, it must be included in this element group (code *BN* in the *Reference function code qualifier* field). The booking number must be the same for all the containers. Therefore, a VERMAS message must only include containers belonging to the same booking.

6.14.3. Elements

	Data Element	Component Element	Name Attributes		
M	C506		REFERENCE	M	
			Identification of a reference.		
M		1153	**Reference function code qualifier**	M	an..3
			Code qualifying a reference.		
			Code which identifies the reference type Accepted values: • **BM:** *Bill of lading number* • **SI:** *SID (Shipper's identifying number for shipment)* • **ILA:** *Acceptance order locator code, alternative to the bar code (internal order number)* • **BN:** *Consignment identifier, carrier assigned (i. e. booking number)*		
O		1154	**Reference identifier**	~~C~~ **M**	an..70
			Identifies a reference.		
~~O~~		~~1156~~	~~Document line identifier~~	~~C~~	~~an..6~~
~~O~~		~~1056~~	~~Version identifier~~	~~C~~	~~an..9~~
~~O~~		~~1060~~	~~Revision identifier~~	~~C~~	~~an..6~~

6.14.4. EDI example

Container locator
RFF+ILA:A00U07'

6.15 // SG4: … SEL Seal Number

Segment:	**SEL** Seal Number	
Position:	0160	
Group:	Segment Group 4 (Equipment Details) Mandatory ~~Conditional (Optional)~~	
Level:	2	
Usage:	Conditional (Optional)	
Max. Use:	~~9~~ 6	

6.15.1. Purpose

Element which contains the container seal numbers when the verified gross mass (VGM) is ascertained.

6.15.2. Comments

- Same type seals cannot be repeated.

- The seal identifier must be indicated (*Transport Unit Seal Identifier* field).

- The sealing party code (*Sealing party code* field) must be indicated.

6.15.3. Elements

Data Element	Component Element	Name Attributes		
R	9308		**TRANSPORT UNIT SEAL IDENTIFIER**	∈ **M** ‖ an..35
			The identification number of a seal affixed to a transport unit.	
O	C215		**SEAL ISSUER**	∈ **M** ‖
O		9303	**Sealing party code**	∈ **M** ‖ an..3

			Seal provider
			Accepted values:
			  • **AA:** *Consolidator*
			  • **AB:** *Unknown*
			  • **CA:** *Carrier*
			  • **CU:** *Customs*
			  • **SH:** *Shipper*
			  • **TO:** *Terminal operator*	

~~X~~		~~1131~~	~~Code list identification code~~	~~C~~ ‖ ~~an..17~~
~~X~~		~~3055~~	~~Code list responsible agency code~~	~~C~~ ‖ ~~an..3~~
~~O~~		~~9302~~	~~Sealing party name~~	~~C~~ ‖ ~~an..35~~
~~O~~	~~4517~~		~~SEAL CONDITION CODE~~	~~C~~ ‖ ~~an..3~~

			~~Code which specifies the seal condition~~
			~~Accepted values:~~
			  ~~• 1: In right condition~~
			  ~~• 2: Damaged~~
			  ~~• 3: Missing~~
			  ~~• 4: Broken~~
			  ~~• 5: Faulty electronic seal~~	

X	C208		IDENTITY NUMBER RANGE	C	
X		7402	Object identifier	M	an..35
X		7402	Object identifier	C	an..35
C	4525		SEAL TYPE CODE	C	an..3
			To specify a type of seal		

6.15.4. EDI example

Shipper's seal
SEL+987654321+SH'

6.16 // SG4: … MEA Segment Group 5: Measurements

Segment:	**MEA** Segment Group 5: Measurements
Position:	0170
Group:	Segment Group 4 (Equipment Details) Mandatory ~~Conditional (Optional)~~
Level:	2
Usage:	Mandatory ~~Conditional (Optional)~~
Max. Use:	~~9~~ 1

6.16.1. Purpose

Group of elements to specify the verified gross mass of a full container, and optionally the date/time this was ascertained.

6.16.2. Elements

	Data Element	Component Element	Name Attributes			
M	0180	MEA	Measurements	M	1	
D	0190	DTM	Date/Time/Period	~~C~~ M	~~9~~ 1	

6.17 // SG4: … SG5: … MEA Measurements

Segment:	**MEA** Measurements
Position:	0180 (Trigger Segment)
Group:	Segment Group 5 (Measurements) Mandatory ~~Conditional (Dependent)~~
Level:	2
Usage:	Mandatory
Max. Use:	1

6.17.1. Purpose

Element to specify the verified gross mass of a full container.

6.17.2. Comments

- A container's verified gross mass (*VGM* code) can only be transmitted in the *Measured attribute code* field.

- The weight value must be a whole number.

6.17.3. Elements

Data Element	Component Element	Name	Attributes		
M	6311		MEASUREMENT ATTRIBUTE CODE	M	an..3
			Code qualifying the purpose of the measurement. Accepted values:		
			• **AAE:** *Measurement*		
R	C502		MEASUREMENT DETAILS	∈ M	
R		6313	Measured attribute code	∈ M	an..3
			Code which identifies the measurements specified in this element repetition Accepted values:		
			• ~~**AET:** *Transport equipment gross weight*~~		
			• **VGM:** *Verified gross mass – transport equipment verified gross weight*		
~~X~~		~~6321~~	~~Measurement significance code~~	~~C~~	~~an..3~~
~~C~~		~~6155~~	~~Non-discrete measurement name code~~	~~C~~	~~an..17~~
~~X~~		~~6154~~	~~Non-discrete measurement name~~	~~C~~	~~an..70~~
R	C174		VALUE/RANGE	∈ M	
			Measurement value and relevant minimum and maximum values of the measurement range.		
M		6411	Measurement unit code	M	~~an..8~~ **an..3**
			To specify the unit of measurement.		
			Code which specifies the unit of measurement for the mass Accepted values:		
			• **KGM:** *Kilogram*		
			• ~~**LBR:** *Pounds*~~		
R		6314	Measure	∈ M	an..18
			Mass value		
~~O~~		~~6162~~	~~Range minimum quantity~~	~~C~~	~~an..18~~
~~O~~		~~6152~~	~~Range maximum quantity~~	~~C~~	~~an..18~~
~~O~~		~~6432~~	~~Significant digits quantity~~	~~C~~	~~an..2~~
~~O~~	~~7383~~		~~SURFACE OR LAYER CODE~~	~~C~~	~~an..3~~

6.17.4. EDI example

Verified gross mass
MEA+AAE+VGM+KGM:21548'

6.18 // SG4: … SG5: … DTM Date/Time/Period

Segment: **DTM** **Date/Time/Period**
Position: 0190
Group: Segment Group 5 (Measurements) Mandatory ~~Conditional (Dependent)~~
Level: 3
Usage: Conditional (Dependent)
Max. Use: ~~9~~ 1

6.18.1. Purpose

Elements to indicate the date and time at which the gross mass was ascertained.

6.18.2. Comments

- A verified gross mass determination date which is later than the message creation date cannot be specified.

- When the sender of the message is a weighing company it is mandatory to indicate the determination date of the verified gross mass.

6.18.3. Elements

Data Element	Component Element	Name	Attributes		
M	C507		DATE/TIME/PERIOD	M	
M		2005	**Date or time or period function code qualifier**	M	an..3
			Function of the date.		
		798	*Verified gross mass determination date/time*		
R		2380	**Date or time or period text**	M	an..35
			Value of the date/time.		
R		2379	**Date or time or period format code**	C	an..3
			Format of the date/time.		
		203	*CCYYMMDDHHMM*		
			Calendar date: C=Century; Y=Year; M=Month; D=Day, H=Hour, MM=Minute		

6.18.4. EDI example

DTM+798:201603151527:203'

6.19 // SG4: … DOC Segment Group 7: Document/Message Details

Segment: **DOC** **Segment Group 7: Document/Message Details**
Position: 0230
Group: Segment Group 4 (Equipment Details) Mandatory ~~Conditional (Optional)~~
Level: 2
Usage: ~~Mandatory~~ Conditional (Optional)
Max. Use: ~~9~~ 4

6.19.1. Purpose

Group of elements to specify documents related to SOLAS verification of gross mass for a full container, and other related details.

6.19.2. Elements

	Data Element	Component Element	Name Attributes			
M	0240	DOC	Document/Message Details	M	1	
O	0250	DTM	Date/Time/Period	C	~~9~~ 2	
	0260		Segment Group 8: Name and Address	C		~~9~~ 5

6.20 // SG4: … SG7: … DOC Document/Message Details

Segment:	**DOC** Document/Message Details
Position:	0240 (Trigger Segment)
Group:	Segment Group 7 (Document/Message Details) Mandatory ~~Conditional (Optional)~~
Level:	2
Usage:	Mandatory
Max. Use:	1

6.20.1. Purpose

Element to specify the type of SOLAS VGM documentation and the document's unique identifier.

6.20.2. Comments

- The type of document (*Document name code* field) must be indicated.

- Document types with the same code cannot be repeated.

- If the message sender is the shipper or freight forwarder (codes *SPC* or *CZ* in the *Party Function Code Qualifier* field of the SG2, *NAD - Name and Address* element group, respectively), the code *SHP* must be included in the *Document name code* field, used to transmit the identifier of the reference to the documentation held by the party responsible for the VGM.

- If the document type of the party responsible for the VGM (code *SHP*) is included, an SG8 (*NAD - Name and Address*) element group must be included with the code *AM* in the *Party Function Code Qualifier* field. This code specifies the authorised person (signature).

- The *SM1* and *SM2* codes are used to transmit the identifier of the reference to the VGM documentation of the weighing certificate, according to method 1 or 2 of the *SOLAS Convention*.

- If the message sender is the shipper, freight forwarder or a weighing company (codes *SPC*, *CZ* or *WPA* in the *Party Function Code Qualifier* field of the SG2, *NAD - Name and Address* element group, respectively), it is mandatory to include the weighing method (*SM1* or *SM2* codes).

- If the message sender is a weighing company (*WPA* code in the *Party Function Code Qualifier* field of the SG2, *NAD - Name and Address* element group), it is mandatory to include the reference identifier for the weighing documentation certificate (*Document identifier* field) if the determination method of the VGM is the method 1 (code *SM1*).

- The reference identifier to the weighing documentation certificate should be unique for each container.

- The *WSC* code is used to reference the weighing equipment certificate if the weighing method is *SM1*. If the weighing method is *SM2*, this field is used to reference the ISO 9001 certificate of the organization.

- The code *DRF* is used to indicate the reference to the identifier of the SOLAS' documentation for the container's VGM. The SG8 (*NAD - Name and Address)* group specifies the source of the documentation.

6.20.3. Elements

Data Element	Component Element	Name Attributes		
M	C002	**DOCUMENT/MESSAGE NAME**	**M**	
		Identification of a type of document/message by code or name. Code preferred.		
O		1001 Document name code	∈ **M**	an..3
		Code specifying the document name. Accepted values: • **DRF:** *Documentation of gross mass verification* • **SHP:** *Party responsible for verification of gross mass* • **SM1:** *SOLAS verification method 1* • **SM2:** *SOLAS verification method 2* • **WSC:** *Weighing Scale Certificate*		
O		1131 Code list identification code	C	an..17
		Code identifying a user or association maintained code list		
		VGM Verified Gross Mass Information		
O		3055 Code list responsable agency code	C	an..3
		Code specifying the agency responsible for a code list		
		306 SMDG (Ship-planning Message Design Group		
O		1000 Document name	C	an..35
		Name of a document		
R	C503	**DOCUMENT/MESSAGE DETAILS**	**C**	
		Identification of document/message by number, status, source and/or language.		
R		1004 Document identifier	C	an..70
		To identify a document.		
O		1373 Document status code	C	an..3
		Code specifying the status of a document.		
O		1366 Document source description	C	an..70
		Free form description of the source of a document.		
O		3453 Language name code	C	an..3
		Code specifying the language code.		
O		1056 Version identifier	C	an..9
		To identify a version.		
O		1060 Revision identifier	C	an..6
		To identify a revision.		
O	3153	COMMUNICATION MEDIUM TYPE CODE	C	an..3
		Code specifying the type of communication medium.		
O	1220	DOCUMENT COPIES REQUIRED QUANTITY	C	an..2

			Quantity of document copies required.		
~~O~~	~~1218~~		~~DOCUMENT ORIGINALS REQUIRED QUANTITY~~	~~C~~	~~an..2~~
			Quantity of document originals required.		

6.20.4. EDI example

Shipper documentation, with ID=27G92ZZ
DOC+SHP:::SHIPPER INFO DOC+27G92ZZ '

Documentation for method 1 certification with ID=W42-23110812
DOC+SM1:::WEIGHING CERTIFICATE+W42-23110812'

Documentation for method 2 with ID=QCT000784
DOC+SM2+QCT000784'

Documentation reference
DOC+DRF+KJH1607-782'

6.21 // SG4: … SG7: … DTM Date/Time/Period

Segment: **DTM** Date/Time/Period
Position: 0250
Group: Segment Group 7 (Document/Message Details) Mandatory ~~Conditional (Optional)~~
Level: 3
Usage: Conditional (Dependent)
Max. Use: ~~9~~ 2

6.21.1. Purpose

Elements to indicate the date and time at which the verified gross mass was ascertained or the date and time at which the document/certificate was issued.

6.21.2. Comments

- Same type dates cannot be repeated.

6.21.3. Elements

	Data Element	Component Element	Name Attributes		
M	C507		**DATE/TIME/PERIOD**	M	
M		2005	**Date or time or period function code qualifier**	M	an..3
			Date/time function. Accepted values:		
			• **137:** *Document issue date/time*		
			• **798:** *Verified gross mass determination date/time.*		
R		2380	**Date or time or period text**	M	an..35
			Value of the date/time.		
R		2379	**Date or time or period format code**	C	an..3
			Format of the date/time.		
		203	*CCYYMMDDHHMM*		

	Calendar date: C=Century; Y=Year; M=Month; D=Day, H=Hour, MM=Minute

6.21.4. EDI example

DTM+137:201606270809:203'

6.22 // SG4: … SG7: … NAD Segment Group 8: Name and Address

Segment: **NAD** **Segment Group 8: Name and Address**
Position: 0260
Group: Segment Group 7 (Document/Message Details) Mandatory ~~Conditional (Optional)~~
Level: 3
Usage: Conditional (Optional)
Max. Use: ~~9~~ 5

6.22.1. Purpose

Group of elements to specify information about the name and address on the VGM documentation, as well as the contact information and/or the signature of the person responsible for the VGM.

6.22.2. Elements

	Data Element	Component Element	Name Attributes			
M	0270	NAD	Name and Address	M	1	
	0280		Segment Group 9: Contact Information	C		~~9~~ 2

6.23 // SG4: … SG7:… SG8: … NAD Name and Address

Segment: **NAD** **Name and Address**
Position: 0270 (Trigger Segment)
Group: Segment Group 8 (Name and Address) Conditional (Optional)
Level: 3
Usage: Mandatory
Max. Use: 1

6.23.1. Purpose

Element which contains the details of one of the agents or parties involved in a document.

6.23.2. Comments

- Involved parties with the same code cannot be repeated.

- The authorised person responsible for signing a document (code *AM* in the *Party Function Code Qualifier* field) must be included when the type of document is *SHP* (*Document name code* field in the SG7, *DOC – Document/Message Details* group of elements).

- If the message sender is a weighing company (*WPA* code in the *Party Function Code Qualifier* field of the SG2, *NAD - Name and Address* element group), it is mandatory to include the authorised person responsible (code *AM* in the *Party Function Code Qualifier* field) of the weighing company when the type of document is *SM1* or *SM2* (*Document name code* field in the SG7, *DOC – Document/Message Details* group of elements).

- If the involved party corresponding to the authorised person is included (code *AM* in the *Party Function Code Qualifier* element), an SG9 (*CTA - Contact Information*) group of elements must be included with the code *RP* in the *Contact Function Code* field.

- The country's ISO code (*Country Identifier* field) must be a valid code.

6.23.3. Elements

Data Element	Component Element	Name	Attributes		
M	3035		PARTY FUNCTION CODE QUALIFIER	M	an..3
			Code giving specific meaning to a party.		
			Code which identifies the type of agent or involved party. Accepted values: • **AM:** *Authorised person* • **OB:** *Ordered by* • **SPC:** *SOLAS packed container responsible party* • **WC:** *Information reference agency* • ~~**WPA:** *Weighing party*~~		
O	C082		PARTY IDENTIFICATION DETAILS	C	
			Identification of a transaction party.		
M		3039	Party identifier	M	an..35
			Code specifying the identity of a party		
			Code assigned by ***valenciaportpcs*** to this agent or involved party, or Tax Id. Number for non-registered organisations.		
~~D~~		~~1131~~	~~Code list identification code~~	~~C~~	~~an..17~~
			~~Code identifying a user or association maintained code list. Accepted values:~~ ~~• EORI: EORI number~~ ~~• INTTRA: INTTRA ID~~ ~~• TAX: TAX ID~~		
~~X~~		~~3055~~	~~Code list responsible agency code~~	~~C~~	~~an..3~~
			~~Code identifying a user or association maintained code list. Accepted values:~~ ~~• 9: GS1~~ ~~• 16: US, D&B (Dun & bradstreet Corporation)~~ ~~• ZZZ: Mutually defined~~		
~~X~~	~~C058~~		~~NAME AND ADDRESS~~	~~C~~	
			~~Unstructured name and address: one to five lines~~		
~~X~~		~~3124~~	~~Name and address description~~	~~M~~	~~an..35~~
~~X~~		~~3124~~	~~Name and address description~~	~~C~~	~~an..35~~
~~X~~		~~3124~~	~~Name and address description~~	~~C~~	~~an..35~~
~~X~~		~~3124~~	~~Name and address description~~	~~C~~	~~an..35~~
~~X~~		~~3124~~	~~Name and address description~~	~~C~~	~~an..35~~

R	C080		PARTY NAME	C	
			Identification of a transaction party by name, one to five lines. Party name may be formatted.		
M		3036	**Party name**	M	~~an..70~~ **an..80**
			Name of the agent or involved party		
~~O~~		~~3036~~	~~Party name~~	~~C~~	~~an..70~~
~~O~~		~~3036~~	~~Party name~~	~~C~~	~~an..70~~
~~O~~		~~3036~~	~~Party name~~	~~C~~	~~an..70~~
~~O~~		~~3036~~	~~Party name~~	~~C~~	~~an..70~~
~~O~~		~~3045~~	~~Party name format code~~	~~C~~	~~an..3~~
O	**C059**		**STREET**	**C**	
			To specify the address or postal code.		
M		3042	**Street and number or post office box identifier**	M	~~an..35~~ **an..250**
			Address of the agent or involved party (street, number, and other details, except the city and postal code)		
~~O~~		~~3042~~	~~Street and number or post office box identifier~~	~~C~~	~~an..35~~
~~O~~		~~3042~~	~~Street and number or post office box identifier~~	~~C~~	~~an..35~~
~~O~~		~~3042~~	~~Street and number or post office box identifier~~	~~C~~	~~an..35~~
O	**3164**		**CITY NAME**	**C**	an..35
			Name of the city/town.		
~~O~~	~~C819~~		~~COUNTRY SUBDIVISION DETAILS~~	~~C~~	
~~O~~		~~3229~~	~~Country subdivision name code~~	~~C~~	~~an..9~~
~~O~~		~~1131~~	~~Code list identification code~~	~~C~~	~~an..17~~
~~O~~		~~3055~~	~~Code list responsible agency code~~	~~C~~	~~an..3~~
~~O~~		~~3228~~	~~Country subdivision name~~	~~C~~	~~an..70~~
O	**3251**		**POSTAL IDENTIFICATION CODE**	**C**	an..17
			Postal/zip code.		
O	**3207**		**COUNTRY IDENTIFIER**	**C**	an..3
			Identification of the name of the country or geographical entity as defined in ISO 3166-1 and UN/CEFACT Recommendation 3.		

6.23.4. EDI example

The same company's authorised person
NAD+AM+CIF CODE++JOHN P. SMITH+B1 STREET 100 PO BOX 1000+C CITY++9000+ES'

The party holding the VGM documentation (as part of the shipping documents)
NAD+WC+++HL ASIA+B3 STREET 21:PO BOX 3000+SINGAPORE++6159+SG'

Party that ordered the weighing at the terminal or at the weighing station
NAD+OB+++A1 LTD+B1 STREET 100: POI BOX 1000+C CITY++900+DE'

6.24 // SG4: … SG7: … SG8: … CTA Segment Group 9: Contact Information

Segment:	**CTA**	**Segment Group 9: Contact Information**
Position:	0280	
Group:	Segment Group 9 (Name and Address) Conditional (Optional)	
Level:	4	
Usage:	Conditional (Optional)	
Max. Use:	~~9~~ 2	

6.24.1. Purpose

Group of elements to specify the contact information and/or signature of the authorised person and the contact means for a party or person.

6.24.2. Elements

	Data Element	Component Element	Name	Attributes		
M	0290	CTA	Contact Information		M	1
O	0300	COM	Communication Contact		C	9̶ 4

6.25 // SG4: … SG7: … SG8: … SG9: … CTA Contact Information

Segment: **CTA** Contact Information
Position: 0290 (Trigger Segment)
Group: Segment Group 9 (Contact Information) Conditional (Optional)
Level: 4
Usage: Mandatory
Max. Use: 1

6.25.1. Purpose

Elements indicated to identify a person or department to which communication should be directed.

6.25.2. Comments

- Same types contact names cannot be repeated.

- The name of the contact person or department must be indicated.

- To transmit the signature of the authorised person (name of the authorised person in capital letters) the code *RP* is used in the *Contact Function Code* field.

- If the container is weighed **outside the terminal**, the signature of the Shipper's authorised person must be included.

- To transmit the name of the party or contact name, the code *BN* is used in the *Contact Function Code* field.

6.25.3. Elements

	Data Element	Component Element	Name	Attributes		
O	3139		CONTACT FUNCTION CODE		∈̶ M	an..3
			Code which identifies the reference type			
			Accepted values:			
			• **BN:** *Certification contact*			

O	C056		CONTACT DETAILS	~~C~~ M	
			Code and/or name of a contact such as a department or employee.		
O		3413	Contact identifier	C	an..17
			To identify a contact, such as a department or employee.		
O		3412	Contact name	~~C~~ M	~~an..256~~ **an..70**
			Name of a contact, such as a department or employee.		

6.25.4. EDI example

Signature with the name in capital letters
CTA+RP+:JOHN P. SMITH'

Communication contact, with details in the following segment (COM)
CTA+BN+:A2 WEIGHT LTD BRANCH NORD'

6.26 // SG4: … SG7: … SG8: … SG9: … COM Communication Contact

Segment: <u>COM</u> Communication Contact
Position: 0300
Group: Segment Group 9 (Contact Information) Conditional (Optional)
Level: 5
Usage: Conditional (Optional)
Max. Use: ~~9~~ 4

6.26.1. Purpose

Element which contains the contact means for the contact person.

6.26.2. Comments

- Both the type of contact and the contact details must be indicated.
- Same type contact means cannot be repeated.

6.26.3. Elements

Data Element	Component Element	Name Attributes		
M	C076		COMMUNICATION CONTACT	M	an..3
			Communication number of a department or employee in a specified channel.		
M		3148	Communication number	M	~~an..512~~ **an..250**
			To identify a communication address.		
R		3155	Communication means type code	M	an..3
			Code which identifies the contact means Accepted values:		

	• **AL:** *Cellular phone*
	• **AM:** *International telephone direct line*
	• **EM:** *Electronic mail*
	• **MA:** *Mail*

6.26.4. EDI example

COM+DISPATCH@MODERN-FOOTWEAR.COM:EM'

6.27 // UNT Message Trailer

Segment: UNT **Message Trailer**
Position: 0310
Group:
Level: 0
Usage: Mandatory ~~Conditional (Optional)~~
Max. Use: 1

6.27.1. Purpose

Closing element of the message.

6.27.2. Elements

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

6.27.3. EDI example

UNT+15+107589475213'

6.28 // UNZ Interchange Trailer

Segment: **UNZ** **Interchange Trailer**
Position: 0320
Group:
Level: 0
Usage: Mandatory ~~Conditional (Optional)~~
Max. Use: 1

6.28.1. Purpose

Closing element of the interchange.

6.28.2. Elements

	Data Element	Component Element	Name Attributes		
M	0036		Interchange control count	M	n..6
M	0020		Interchange control reference	M	an..14
			Should match DE S005 in the UNB		

6.28.3. EDI example

UNZ+1+Interchange ref'

7 // EDI VERMAS example

The following example aims to serve as a **reference** for sending or receiving a VERMAS message. Logically, the organisation codes and names are not valid values. Imaginary codes have been used for demonstration purposes. We have not aimed to use logical message content from a business point of view. Sometimes details which would never be used in real life have been used, but once again, the idea is to demonstrate all the possible message elements that may exist.

```
UNB+UNOC:2+SENDERID+VALENCIAPORT+160315:1708'
UNH+VERMAS ID+VERMAS:D:16A:UN:VP-VGM'
BGM+XXX+:1.0+9'
DTM+137:1603151537:203'
RFF+BN:112233-ABC'
RFF+SI:T/HL007543'
NAD+CA+CARRIER SCAC CODE:PCS+CARRIER PARTY+B2 STREET 10 PO BOX 2000+B CITY++8000+ES'
NAD+SPC+CIF CODE:CIF+VGM RESPONSIBLE PARTY+B1 STREET 100 PO BOX 1000+C CITY++9000+ES'
CTA+MS+VGM RESPONSIBLE PARTY'
COM+NAME@VGM_PARTY.COM:EM'
EQD+CN+HLXU9876543+42G1'
RFF+ILA:A00U07'
SEL+987654321+SH'
MEA+AAE+VGM+KGM:21548'
DTM+WAT:201603151527:203'
DOC+SHP:::SHIPPER INFO DOC+27G92ZZ'
NAD+AM+CIF CODE++JOHN P. SMITH+B1 STREET 100 PO BOX 1000+C CITY++9000+ES'
CTA+RP+:JOHN P. SMITH'
DOC+SM1:::WEIGHING CERTIFICATE+W42-23110812'
DTM+137:201603150809:203'
DTM+137:201603151032:203'
NAD+AM+CIF CODE++A2 WEIGHT LTD+B3 STREET 1000 PO BOX 2000+A CITY++7000+ES
CTA+RP+:KARL SCHNEIDER'
UNT+44+VERMAS ID'
UNZ+1'
```

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valenciaport PCS
PORT COMMUNITY SYSTEM

Centro de Atención a Usuarios
Avenida Muelle del Turia, s/n
46024 Valencia
Tel.: 902 88 44 24
R.C.I.: 10 001
www.valenciaportpcs.net
cau@valenciaportpcs.net