



UN/EDIFACT Version D16A

VERMAS

Verified Gross Mass

Message Implementation Guide

Version 1.0.0

Change history

Version	Date	Comments
1.0.0	12-May-2016	Initial version

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1. Audience

This document is intended for business, technical and EDI personnel engaged in establishing an electronic connection with INTTRA for the purpose of exchanging container Verified Gross Mass transaction messages through INTTRA via INTTRA's version of EDIFACT VERMAS (D16A).

The following sections provide detail information regarding General Conventions, message flow, message specifications, and message samples, to facilitate effective and efficient use of INTTRA's business transaction sets.

This Hamburg Süd (HSD) "User Manual" (or "Implementation Guide") is based on the "INTTRA eVGM Service, DRAFT User Guide Version 0.8, dated March 17, 2016 as designed by INTTRA.

2. Status Indicators and Usage Indicators

2.1. Status Indicators

Status Indicators (“M” and “C”) form part of the UN/EDIFACT standard and indicate a minimum requirement to fulfil the needs of the message structure. They are not adequate for implementation purposes. The Status Indicators are:

Value	Description
M	Mandatory The entity marked as such must appear in all messages, and apply to these messages as well as to any associated implementation guidelines (and consequently is also a Usage Indicator).
C	Conditional The entity is used by agreement between trading partners

2.2. Usage Indicators

Usage Indicators are implementation–related indicators that further detail the use of “Conditional” Status Indicators. Usage Indicators are applied at all levels of the guidelines and shown adjacent to data items such as segment groups, segments, composite data elements and simple data elements. They dictate the agreed usage of the data items or entities. The Usage Indicators are:

Value	Description
M	Mandatory Indicates the item is mandatory in the UN/EDIFACT message.
R	Required Indicates the item must be transmitted in this implementation.
D	Dependent Indicates that the use of the item is depending on a well-defined condition or set of conditions. These conditions must be clearly specified in the relevant implementation guideline.
O	Optional Indicates that this item is at the need or discretion of both trading partners.
X	Not Used Indicates that this item is not used in this implementation. If present, it will be disregarded.

Where an item within a segment group, segment or composite data element is marked with Usage Indicators “M” or “R”, but the segment group, segment or composite data element has been marked “O” or “D” (or for that matter “X”), the item is only to be transmitted when the segment group, segment or composite of which it is a part, is used.

3. Format

3.1. Numeric Conventions

General numeric conventions for decimal values

- Decimal will be represented using the dot ('.') e.g., 53897.56 or 69.53154
- Group separators will not be sent. e.g., 59,5388.493 is invalid

The applicable precision varies by type of numeric data and is defined for each relevant element. Numeric elements representing counts will be supplied as whole numbers without group separators.

3.2. Email Format Conventions

Hamburg Süd checks email addresses for format validity, using the following rules:

- Minimum length is 6 characters (Example: a@b.cd)
- Only one @ sign
- At least one dot ('.') after @ with at least one character in between
- Must have at least 2 characters after the last dot
- Allowed characters:
 - ✓ HaSu supports
 - ✓ ASCII characters, hash sign "#", apostrophe "'",
 - ✓ Digits
 - ✓ _, -, @, .

Disallowed characters:

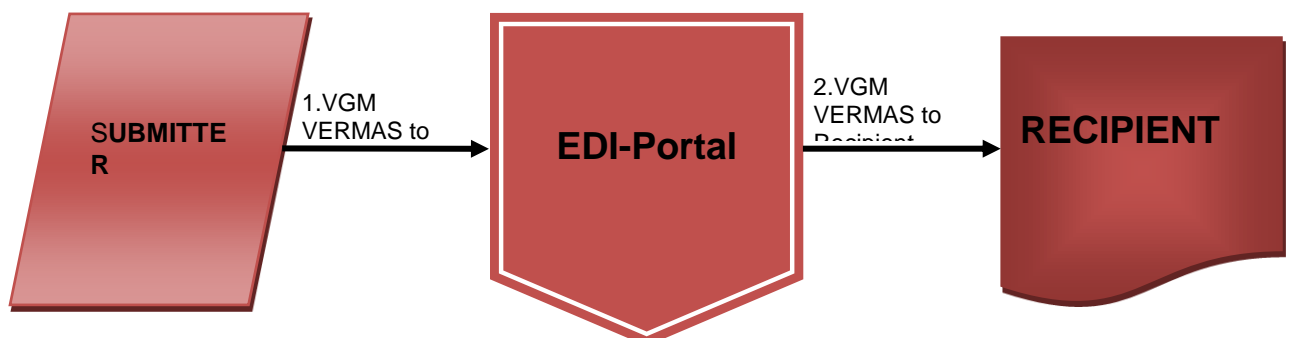
- All others not mentioned including , ; " ' / \, etc.

Email addresses provided by HSD in the VERMAS transaction will comply with above-mentioned rules.

3.3. Date Format Conventions

- HSD's implementation includes date fields with the following formats:
 - ✓ Date alone, in the format CCYYMMDD
 - ✓ Date accompanied by time, in the format CCYYMMDDHHMM
- When present, the time component is assumed to be in 24 hour format.
- Unless explicitly stated in the IG to be considered as GMT/UTC, date/time values are considered to be local at the point of activity.

3.4. Message Flow



4. VERMAS D16A segment table of contents

Introduction:

Purpose is exchanging container Verified Gross Mass transaction messages

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Group Repeat</u>	<u>Notes and Comments</u>
M	0005	UNB	Interchange Header	M	1		
M	0010	UNH	Message Header	M	1		
M	0020	BGM	Beginning of Message	M	1		
	0025	DTM	Date/Time/Period	C	1		
Not Used	0030		Segment Group 1: RFF-DTM	C		9	
Not Used	0031	RFF	Reference	M	1		
Not Used	0036	DTM	Date/Time/Period	C	1		
M	0038		Segment Group 2: NAD-SG3	M		1	
M	0039	NAD	Name and Address	M	1		
	0040		Segment Group 3: CTA-COM	C		9	
M	0041	CTA	Contact Information	M	1		
	0051	COM	Communication Contact	C	9		
	0630		Segment Group 4: EQD-RFF-LOC-SEL-SG5-SG6-SG7	C		99999	
M	0631	EQD	Equipment Details	M	1		
M	0641	RFF	Reference	M	8		
Not Used	0651	LOC	Place/Location Identification	C	9		
Not Used	0661	SEL	-Seal Number	C	9		
M	0671		Segment Group 5: MEA-DTM	M		1	
M	0672	MEA	Measurements	M	1		
	0682	DTM	Date/Time/Period	C	1		
Not Used	0692		Segment Group 6: TDT-RFF	C		9	
Not Used	0693	TDT	Transport Details	M	1		
Not Used	0703	RFF	Reference	C	9		
M	0713		Segment Group 7: DOC-DTM-SG8	M		9	
M	0714	DOC	Document/Message Details	M	1		
	0724	DTM	Date/Time/Period	C	1		
M	0734		Segment Group 8: NAD-SG9	M		5	
M	0735	NAD	Name and Address	M	1		
	0040		Segment Group 9: CTA-COM	C		2	
M	0041	CTA	Contact Information	M	1		
	0051	COM	Communication Contact	C	9		
M	0620	UNT	Message Trailer	M	1		
M	0766	UNZ	Interchange Trailer	M	1		

Segment: UNB Interchange Header

Position: 0005
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To start, identify and specify an interchange

Dependency Notes:

Semantic Notes:

Comments:

Business Rules: Variable Name: UNB

Notes: **VERMAS examples**

Example for all use cases

UNB+UNOC:3+SENDER ID+HSD+160302:1347+0234401'

Data Element Summary

Data Element		Component	Name	Attributes
	Element	Element		
M	S001		SYNTAX IDENTIFIER	M 1
			Identification of the agency controlling the syntax and indication of syntax level.	
M		0001	Syntax identifier	M a4
			Coded identification of the agency controlling a syntax and syntax level used in an interchange.	
			VERMAS examples:	
			Accepted Value -	
			UNOC UN/ECE level C, as defined in ISO/IEC 8859-1	
M		0002	Syntax version number	M n1
			Version number of the syntax identified in the syntax identifier (0001).	
			VERMAS examples:	
			Supplied Value	
			3 for Version 3 - ISO 9735 Amendment 1:1992	
M	S002		INTERCHANGE SENDER	M 1
			Identification of the sender of the interchange.	
M		0004	Sender identification	M an..35
			Name or coded representation of the sender of a data interchange.	
		0007	Partner identification code qualifier	C an..4
			Qualifier referring to the source of codes for the identifiers of interchanging partners.	
		0008	Address for reverse routing	C an..14
			Address specified by the sender of an interchange to be included by the recipient in the response interchanges to facilitate internal routing.	
M	S003		INTERCHANGE RECIPIENT	M 1
			Identification of the recipient of the interchange.	
M		0010	Recipient identification	M an..35
			Name or coded representation of the recipient of a data interchange.	
		0007	Partner identification code qualifier	C an..4
			Qualifier referring to the source of codes for the identifiers of interchanging partners.	
		0014	Routing address	C an..14
			Address specified by the recipient of an interchange to be included by the sender and used by the recipient for routing of received interchanges inside his organization.	
M	S004		DATE AND TIME OF PREPARATION	M 1
			Date and time of preparation of the interchange.	
M		0017	Date of preparation	M n6
			Local date when an interchange or a functional group was prepared.	

M	0019	Time of preparation Local time of day when an interchange or a functional group was prepared.	M	n4
M	0020	INTERCHANGE CONTROL REFERENCE Unique reference assigned by the sender to an interchange.	M	1 an..14
	S005	RECIPIENTS REFERENCE PASSWORD Reference or password as agreed between the communicating partners.	C	1
M	0022	Recipient reference/password Unique reference assigned by the recipient to the data interchange or a password to the recipient's system or to a third party network as specified in the partners interchange agreement.	M	an..14
	0025	Recipient reference/password qualifier Qualifier for the recipient's reference or password.	C	an2
	0026	APPLICATION REFERENCE Identification of the application area assigned by the sender, to which the messages in the interchange relate e.g. the message identifier if all the messages in the interchange are of the same type.	C	1 an..14
	0029	PROCESSING PRIORITY CODE Code determined by the sender requesting processing priority for the interchange.	C	1 a1
	0031	ACKNOWLEDGEMENT REQUEST Code determined by the sender for acknowledgement of the interchange.	C	1 n1
	0032	COMMUNICATIONS AGREEMENT ID Identification by name or code of the type of agreement under which the interchange takes place.	C	1 an..35
	0035	TEST INDICATOR Indication that the interchange is a test.	C	1 n1

Segment: UNH Message Header

Position: 0010
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To head, identify and specify a Message

Dependency Notes:

Semantic Notes:

Comments:

Business Rules: Variable Name: UNH1

Notes: **VERMAS examples**

Example for all use cases
 UNH+001+VERMAS:D:16A:UN:0.8'

Data Element Summary

	<u>Data Element</u>	<u>Component 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. VERMAS examples: VERMAS	M an..6
M		0052	Message type version number Version number of a message type. VERMAS examples: D	M an..3
M		0054	Message type release number Release number within the current message type version number (0052). 16A Release 2016 - A	M an..3
M		0051	Controlling agency Code identifying the agency controlling the specification, maintenance and publication of the message type. UN UN/CEFACT United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT).	M an..2
		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
	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
	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
		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.

Segment: BGM Beginning of Message

Position: 0020
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To indicate the type and function of a message and to transmit the identifying number.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

Example for all use cases

BGM+VGM+8394887+9'

Original VGM (BGM 1225 = 9)

Data Element Summary

<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
C002		DOCUMENT/MESSAGE NAME	C 1
		Identification of a type of document/message by code or name. Code preferred.	
	1001	Document name code	C an..3
		Code specifying the document name.	
	1131	Code list identification code	C an..17
		Code identifying a code list.	
	3055	Code list responsible agency code	C an..3
		Code specifying the agency responsible for a code list.	
	1000	Document name	C an..35
		Name of a document.	
C106		DOCUMENT/MESSAGE IDENTIFICATION	C 1
		Identification of a document/message by its number and eventually its version or revision.	
	1004	Document identifier	C an..35
		To identify a document.	
	1056	Version identifier	C an..9
		To identify a version.	
	1060	Revision identifier	C an..6
		To identify a revision.	
1225		MESSAGE FUNCTION CODE	C 1 an..3
		Code indicating the function of the message.	
		9 Original	
		Initial transmission related to a given transaction.	
4343		RESPONSE TYPE CODE	C 1 an..3
		Code specifying the type of acknowledgment required or transmitted.	

Segment: DTM Date/Time/Period

Position: 0025
Group:
Level: 0
Usage: Conditional (Optional)
Max Use: 1
Purpose: To specify date, and/or time, or period.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

Example for all use cases
 DTM+137:201606011430:203'

Transaction creation date. Time is assumed to be local time.

Data Element Summary

M	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>	
	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.		
		137	Document/message date/time		
			(2006) Date/time when a document/message is issued. This may include authentication.		
		2380	Date or time or period value	C	an..35
			The value of a date, a date and time, a time or of a period in a specified representation.		
		2379	Date or time or period format code	C	an..3
			Code specifying the representation of a date, time or period.		
		203	CCYYMMDDHHMM		
			Calendar date including time with minutes: C=Century; Y=Year; M=Month; D=Day; H=Hour; M=Minutes.		

Group: **NAD** Segment Group 2: SG2
Position: 0038
Group:
Level: 1
Usage: Mandatory
Max Use: 1
Purpose:

Segment Summary

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Group: Repeat</u>
M	0039	NAD	Name and Address	M	1	
	0040		Segment Group 3: Contact Information	C		9

Segment: NAD Name and Address

Position: 0039 (Trigger Segment)
Group: Segment Group 2 (SG2) Mandatory
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.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

NAD+SPC+801345::192++SHIPPER NAME+STREET ADDRESS'

NAD+TB+801345::192++SUBMITTER+STREET ADDRESS'

NAD+WPA+++WEIGHING PARTY NAME+STREET ADDRESS'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	3035		PARTY FUNCTION CODE QUALIFIER Code giving specific meaning to a party. SPC Party responsible for declaration of VGM TB Submitter To specify that the party is a submitter. TR Terminal operator A party which handles the loading and unloading of marine vessels. WPA Weighting party Party designated (legally accepted) to ascertain the weight.	M 1 an..3
	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
		1131	Code list identification code Code identifying a code list.	C an..17
		3055	Code list responsible agency code Code specifying the agency responsible for a code list.	C an..3
	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
		3124	Name and address description Free form description of a name and address line.	C an..35
		3124	Name and address description Free form description of a name and address line.	C an..35
		3124	Name and address description Free form description of a name and address line.	C an..35
		3124	Name and address description Free form description of a name and address line.	C an..35
	C080		PARTY NAME Identification of a transaction party by name, one to five lines. Party name may be formatted.	C 1

M	3036	Party name Name of a party.	M	an..35
	3036	Party name Name of a party.	C	an..35
	3036	Party name Name of a party.	C	an..35
	3036	Party name Name of a party.	C	an..35
	3036	Party name Name of a party.	C	an..35
	3045	Party name format code Code specifying the representation of a party name.	C	an..3
	C059	STREET Street address and/or PO Box number in a structured address: one to four lines.	C	1
M	3042	Street and number or post office box identifier To identify a street and number and/or Post Office box number.	M	an..35
	3042	Street and number or post office box identifier To identify a street and number and/or Post Office box number.	C	an..35
	3042	Street and number or post office box identifier To identify a street and number and/or Post Office box number.	C	an..35
	3042	Street and number or post office box identifier To identify a street and number and/or Post Office box number.	C	an..35
	3164	CITY NAME Name of a city.	C	1 an..35
	C819	COUNTRY SUB-ENTITY DETAILS To specify a part of a country (eg county or part of a city).	C	1
	3229	Country sub-entity name code Code specifying the name of a country sub-entity.	C	an..9
	1131	Code list identification code Code identifying a code list.	C	an..17
	3055	Code list responsible agency code Code specifying the agency responsible for a code list.	C	an..3
	3228	Country sub-entity name Name of a country sub-entity.	C	an..35
	3251	POSTAL IDENTIFICATION CODE Code specifying the postal zone or address.	C	1 an..17
	3207	COUNTRY NAME CODE Identification of the name of the country or other geographical entity as specified in ISO 3166.	C	1 an..3

Group: CTA Segment Group 3: Contact Information

Position: 0040
Group: Segment Group 2 (SG2) Mandatory
Level: 2
Usage: Conditional (Optional)
Max Use: 9
Purpose:

Segment Summary

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Group: Repeat</u>
M	0041	CTA	Contact Information	M	1	
	0051	COM	Communication Contact	C	9	

Segment: CTA Contact Information

Position: 0041 (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.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

CTA+MS+:CONTACT NAME'
 CTA+BN+:NAME'
 Spaces and/or dots alone will not be sent for Contact Name (C056, 3412).

Data Element Summary

<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
3139		CONTACT FUNCTION CODE	C 1 an..3
		Code specifying the function of a contact (e.g. department or person).	
	BN	Certification contact	
		Code specifying a contact with knowledge of a certification action.	
	IC	Information contact	
		Department/person to contact for questions regarding transactions.	
	MS	Message sender contact	
C056		DEPARTMENT OR EMPLOYEE DETAILS	C 1
		Code and/or name of a department or employee. Code preferred.	
	3413	Department or employee name code	C an..17
		Code specifying the name of a department or employee.	
	3412	Department or employee name	C an..35
		Name of a department or employee.	

Segment: COM Communication Contact

Position: 0051
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.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

For all use cases
 COM+123 456 789:TE'

Data Element Summary

M	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>	
	C076		COMMUNICATION CONTACT	M	3
			Communication number of a department or employee in a specified channel.		
M		3148	Communication address identifier	M	an..512
			To identify a communication address.		
M		3155	Communication address code qualifier	M	an..3
			Code qualifying the communication address.		
		EM	Electronic mail		
			Exchange of mail by electronic means.		
		FX	Telefax		
			Device used for transmitting and reproducing fixed graphic material (as printing) by means of signals over telephone lines or other electronic transmission media.		
		TE	Telephone		
			Voice/data transmission by telephone.		

Group: **EQD Segment Group 4: SG4**
Position: 0630
Group:
Level: 1
Usage: Conditional (Optional)
Max Use: 99999
Purpose:

Segment Summary

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Group: Repeat</u>
M	0631	EQD	Equipment Details	M	1	
M	0641	RFF	Reference	M	8	
	0671		Segment Group 5: Measurements	M		1
	0713		Segment Group 7: Document/Message Details	M		9

Segment: EQD Equipment Details

Position: 0631 (Trigger Segment)
Group: Segment Group 4 (SG4) Conditional (Optional)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: To identify a unit of equipment.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

For all use cases
 EQD+CN+SUDU3019284:6346:5+45G0:6346:5'
 EQD+CN+SUDU5386721:6346:5+22T6:6346:5+1'

Data Element Summary

M	Data Element	Component Element	Name	Attributes
		8053		EQUIPMENT TYPE CODE QUALIFIER Code qualifying a type of equipment.
			CN Container Equipment item as defined by ISO for transport. It must be of: A) permanent character, strong enough for repeated use; B) designed to facilitate the carriage of goods, by one or more modes of transport, without intermediate reloading; C) fitted with devices for its ready handling, particularly.	
	C237		EQUIPMENT IDENTIFICATION Marks (letters/numbers) identifying equipment.	C 1
		8260	Equipment identifier To identify equipment.	C an..17
		1131	Code list identification code Code identifying a code list.	C an..17
			6346 Container ID ISO 6346	
		3055	Code list responsible agency code Code specifying the agency responsible for a code list.	C an..3
			5 ISO (International Organization for Standardization)	
		3207	Country name code Identification of the name of the country or other geographical entity as specified in ISO 3166.	C an..3
	C224		EQUIPMENT SIZE AND TYPE Code and or name identifying size and type of equipment. Code preferred.	C 1
		8155	Equipment size and type description code Code specifying the size and type of equipment.	C an..10
		1131	Code list identification code Code identifying a code list.	C an..17
		3055	Code list responsible agency code Code specifying the agency responsible for a code list.	C an..3
		8154	Equipment size and type description Free form description of the size and type of equipment.	C an..35
	8077		EQUIPMENT SUPPLIER CODE Code specifying the party that is the supplier of the equipment.	C 1 an..3
	8249		EQUIPMENT STATUS CODE	C 1 an..3

8169

Code specifying the status of equipment.

FULL OR EMPTY INDICATOR CODE

Code indicating whether an object is full or empty.

C 1 an..3

Segment: RFF Reference

Position: 0641
Group: Segment Group 4 (SG4) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 8
Purpose: To specify a reference.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

Example for all use cases
RFF+BN:6HAMSA0168'

EQD1 - RFF+BN:6HAMSA0168'
EQD2 - RFF+BN:6HAMSA0171'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	C506		REFERENCE Identification of a reference.	M 1
M		1153	Reference code qualifier Code qualifying a reference. BM Bill of lading number Reference number assigned to a bill of lading, see: 1001 = 705. BN Booking reference number [1016] Reference number assigned by the carrier or his agent when cargo space is reserved prior to loading. SI SID (Shipper's identifying number for shipment) Description to be provided.	M an..3
		1154	Reference identifier Identifies a reference.	C an..70
		1156	Document line identifier To identify a line of a document.	C an..6
		4000	Reference version identifier To identify the version of a reference.	C an..35
		1060	Revision identifier To identify a revision.	C an..6

Group: MEA Segment Group 5: Measurements

Position: 0671
Group: Segment Group 4 (SG4) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose:

Segment Summary

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Group: Repeat</u>
M	0672	MEA	Measurements	M	1	
	0682	DTM	Date/Time/Period	C	1	

Segment: MEA Measurements

Position: 0672 (Trigger Segment)
Group: Segment Group 5 (Measurements) Mandatory
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements, including dimension tolerances, weights and counts.

Dependency Notes:

Semantic Notes:

Comments:

Notes:

VERMAS examples

For all use cases
 MEA+AAE+VGM+KGM:13401.5'

Weight have to be sent in compliance following rules:

- Decimal will be represented using the dot ('.')
- Group separators are invalid
- Weight: Maximum 3 bytes of precision allowed
 - * valid "1000.123"
 - * invalid "1,000.123", "1.000,123"

Data Element Summary

Data Element		Component Element	Name	Attributes	
M	6311		MEASUREMENT PURPOSE CODE QUALIFIER	M 1 an..3	
			Code qualifying the purpose of the measurement.		
		AAE	Measurement	[6314] Value of the measured unit.	
	C502		MEASUREMENT DETAILS	C 1	
			Identification of measurement type.		
			6313 Measured attribute code	C an..3	
			Code specifying the attribute measured.		
			VGM	Verified Gross Mass	
			6321 Measurement significance code	C an..3	
		6155 Non-discrete measurement name code	C an..17		
	Code specifying the name of a non-discrete measurement.				
	6154 Non-discrete measurement name	C an..70			
	Name of a non-discrete measurement.				
M	C174		VALUE/RANGE	C 1	
			Measurement value and relevant minimum and maximum values of the measurement range.		
	6411 Measurement unit code	M an..3			
	Code specifying the unit of measurement.				
	6314 Measurement value	C an..18			
	To specify the value of a measurement.				
	6162 Range minimum value	C n..18			
To specify the minimum value of a range.					
6152 Range maximum value	C n..18				
To specify the maximum value of a range.					
6432 Significant digits quantity	C n..2				
Count of the number of significant digits.					
7383		SURFACE OR LAYER CODE	C 1 an..3		

Code specifying the surface or layer of an object.

Segment: DTM Date/Time/Period

Position: 0682
Group: Segment Group 5 (Measurements) Mandatory
Level: 3
Usage: Conditional (Optional)
Max Use: 1
Purpose: To specify date, and/or time, or period.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

For all use cases
 DTM+798:201604211455:203'
 DTM+WAT:CCYYMMDDHHMM:203'

Date and time is expected to be local at the location where VGM weight was determined.

This date/time is mandatory when Verified Gross Mass (Group 5, 180-MEA, C502, 6313 = 'VGM') is present.

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</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.	
			798 Weighing date	
			WAT Weighing date	
		2380	Date or time or period value	C an..35
			The value of a date, a date and time, a time or of a period in a specified representation.	
		2379	Date or time or period format code	C an..3
			Code specifying the representation of a date, time or period.	
			203 CCYYMMDDHHMM	
			Calendar date including time with minutes: C=Century; Y=Year; M=Month; D=Day; H=Hour; M=Minutes.	

Group: DOC Segment Group 7: Document/Message Details

Position: 0713
Group: Segment Group 4 (SG4) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 9
Purpose:

Segment Summary

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Group: Repeat</u>
M	0714	DOC	Document/Message Details	M	1	
	0724	DTM	Date/Time/Period	C	1	
	0734		Segment Group 8: Name and Address	M		5

Segment: DOC Document/Message Details

Position: 0714 (Trigger Segment)
Group: Segment Group 7 (Document/Message Details) Mandatory
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: To identify documents and details directly related to it.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

DOC+SHP:VGM:306'
 DOC+SM1:VGM:306:WGTT+CTW5599201'
 DOC+SM1:VGM:306:SCAL+SCL0293888'
 DOC+SM2:VGM:306:SM2A+A3029983'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	C002		DOCUMENT/MESSAGE NAME	M 1
			Identification of a type of document/message by code or name. Code preferred.	
		1001	Document name code	C an..3
			Code specifying the document name.	
			SHP Shipper Responsible	
			SM1 SOLAS verification weighing method 1	
			SM2 SOLAS verification weighing method 2	
		1131	Code list identification code	C an..17
			Code identifying a code list.	
			VGM Verified Gross Mass	
		3055	Code list responsible agency code	C an..3
			Code specifying the agency responsible for a code list.	
			306 SMDG (Ship-planning Message Design Group	
		1000	Document name	C an..35
			Name of a document.	
			VERMAS examples:	
			This element will only be provided when Document name code (C002;1001) is "SM1" or "SM2".	
			SM1A will only be provided when Document name code (C002;1001) is "SM1".	
			SM2A will only be provided when Document name code (C002;1001) is "SM2".	
			Explanation:	
			SCAL Scale certificate	
			SM1A VGM method 1 authorization number	
			SM2A VGM method 2 authorization number	
			WGTT Weight ticket	
	C503		DOCUMENT/MESSAGE DETAILS	C 1
			Identification of document/message by number, status, source and/or	

		language.		
	1004	Document identifier	C	an..35
		To identify a document.		
		VERMAS examples:		
		To identify a document		
		Certificate number		
X	1373	Document status code	C	an..3
X	1366	Document source description	C	an..70
X	3453	Language name code	C	an..3
X	1056	Version identifier	C	an..9
X	1060	Revision identifier	C	an..6
X	3153	COMMUNICATION MEDIUM TYPE CODE	C	1 an..3
X	1220	DOCUMENT COPIES REQUIRED QUANTITY	C	1 n..2
X	1218	DOCUMENT ORIGINALS REQUIRED QUANTITY	C	1 n..2

Segment: DTM Date/Time/Period

Position: 0724
Group: Segment Group 7 (Document/Message Details) Mandatory
Level: 3
Usage: Conditional (Optional)
Max Use: 1
Purpose: To specify date, and/or time, or period.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

DTM+225:201603022200:203'
 DTM+182:201601010001:203'

DTM
 225 - Certification of weight date/time if Verification Signature is provided (RP) and if DOC type "SHP"

Verification Date "225" will be provided if the Verification Signature is provided (0290-CTA-3189 = "RP") and will only be provided under DOC type "SHP".

Issue Date "182" will only be provided under DOC types "SM1" or "SM2".

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</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.	
		182	Issue date	
			Date when a document/message has been or will be issued.	
		225	Certification of weight date/time	
			Date/time at which the carrier proceeds to the weighting of the goods.	
		2380	Date or time or period value	C an..35
			The value of a date, a date and time, a time or of a period in a specified representation.	
		2379	Date or time or period format code	C an..3
			Code specifying the representation of a date, time or period.	
		203	CCYYMMDDHHMM	
			Calendar date including time with minutes: C=Century; Y=Year; M=Month; D=Day; H=Hour; M=Minutes.	

Group: NAD Segment Group 8: Name and Address

Position: 0734
Group: Segment Group 7 (Document/Message Details) Mandatory
Level: 3
Usage: Mandatory
Max Use: 5
Purpose:

Segment Summary

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Group: Repeat</u>
M	0735	NAD	Name and Address	M	1	
	0040		Segment Group 9: Contact Information	C		2

Segment: NAD Name and Address

Position: 0735 (Trigger Segment)
Group: Segment Group 8 (Name and Address) Mandatory
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.

Dependency Notes:
Semantic Notes:
Comments:
Notes:

VERMAS examples

NAD+SPC+++SHIPPER NAME+STREET ADDRESS'
 NAD+WPA+801345::192++SHIPPER NAME+STREET ADDRESS'

Signature (041-CTA-3139 = "RP") will be associated to SPC (Responsible Party) or when authority to sign is delegated to AM (Authorized Official).

Only one of each party type will be provided per EQD.

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	3035		PARTY FUNCTION CODE QUALIFIER Code giving specific meaning to a party. SPC Party responsible for declaration of VGM WPA Weighting party Party designated (legally accepted) to ascertain the weight.	M 1 an..3
	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
X		1131	Code list identification code	C an..17
		3055	Code list responsible agency code Code specifying the agency responsible for a code list. 192 Shipper's association Code assigned by a shipper's association.	C an..3
	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
		3124	Name and address description Free form description of a name and address line.	C an..35
		3124	Name and address description Free form description of a name and address line.	C an..35
		3124	Name and address description Free form description of a name and address line.	C an..35
		3124	Name and address description Free form description of a name and address line.	C an..35
	C080		PARTY NAME Identification of a transaction party by name, one to five lines. Party name may be formatted.	C 1
M		3036	Party name Name of a party.	M an..35

	3036	Party name	C	an..35
		Name of a party.		
	3036	Party name	C	an..35
		Name of a party.		
	3036	Party name	C	an..35
		Name of a party.		
	3036	Party name	C	an..35
		Name of a party.		
	3045	Party name format code	C	an..3
		Code specifying the representation of a party name.		
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.		
	3042	Street and number or post office box identifier	C	an..35
		To identify a street and number and/or Post Office box number.		
	3042	Street and number or post office box identifier	C	an..35
		To identify a street and number and/or Post Office box number.		
	3042	Street and number or post office box identifier	C	an..35
		To identify a street and number and/or Post Office box number.		
	3164	CITY NAME	C	1 an..35
		Name of a city.		
	C819	COUNTRY SUB-ENTITY DETAILS	C	1
		To specify a part of a country (eg county or part of a city).		
	3229	Country sub-entity name code	C	an..9
		Code specifying the name of a country sub-entity.		
	1131	Code list identification code	C	an..17
		Code identifying a code list.		
	3055	Code list responsible agency code	C	an..3
		Code specifying the agency responsible for a code list.		
	3228	Country sub-entity name	C	an..35
		Name of a country sub-entity.		
	3251	POSTAL IDENTIFICATION CODE	C	1 an..17
		Code specifying the postal zone or address.		
	3207	COUNTRY NAME CODE	C	1 an..3
		Identification of the name of the country or other geographical entity as specified in ISO 3166.		

Group: CTA Segment Group 9: Contact Information

Position: 0040
Group: Segment Group 8 (Name and Address) Mandatory
Level: 4
Usage: Conditional (Optional)
Max Use: 2
Purpose: To identify a person or a department to whom communication should be directed.

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0041	CTA	Contact Information	M	1	
	0051	COM	Communication Contact	C	9	

Segment: CTA Contact Information

Position: 0041 (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.

Dependency Notes:

Semantic Notes:

Comments:

Notes:

VERMAS examples

For all use cases
 CTA+RP+:RESPONSIBLE PERSON IM CHARGE'

Spaces and/or dots alone will not be sent for Contact Name (C056, 3412).

Only one of each contact function code type (3139) "RP" and "IC" will be sent per CTA/COM loop.

When contact function code (3139) is "RP" Contact name (3412) will be in all capital letters.

When provided, RP will be associated with the Party Verifying (signing) the VGM. This will be either SPC or AM (if authority to sign is delegated).

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	3139		CONTACT FUNCTION CODE Code specifying the function of a contact (e.g. department or person). IC Information contact Department/person to contact for questions regarding transactions. RP Authorized responsible person	M 1 an..3
M	C056		DEPARTMENT OR EMPLOYEE DETAILS Code and/or name of a department or employee. Code preferred.	M 1
		3413	Department or employee name code Code specifying the name of a department or employee.	C an..17
M		3412	Department or Contact name Name of a department or employee.	M an..256

Segment: COM Communication Contact

Position: 0051
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.

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

COM+490 412 34:TE'

At least one COM will be provided if contact function code (041-CTA,3139) is "IC".

Data Element Summary

M	Data Element	Component Element	Name	Attributes	
		C076		COMMUNICATION CONTACT	M
			Communication number of a department or employee in a specified channel.		
M		3148	Communication address identifier	M	an..512
			To identify a communication address.		
M		3155	Communication address code qualifier	M	an..3
			Code qualifying the communication address.		
		EM	Electronic mail		
			Exchange of mail by electronic means.		
		FX	Telefax		
			Device used for transmitting and reproducing fixed graphic material (as printing) by means of signals over telephone lines or other electronic transmission media.		
		TE	Telephone		
			Voice/data transmission by telephone.		

Segment: UNT Message Trailer

Position: 0620
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To end and check the completeness of a Message

Dependency Notes:

Semantic Notes:

Comments:

Notes: VERMAS examples

Example for all use cases
 UNT+14+001'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</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

Segment: UNZ Interchange Trailer

Position: 0766
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To end and check the completeness of an interchange

Dependency Notes:

Semantic Notes:

Comments:

Notes: **VERMAS examples**

Example for all use cases
 UNZ+1+0234401'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
	M	0036		INTERCHANGE CONTROL COUNT Count either of the number of messages or, if used, of the number of functional groups in an interchange.
M	0020		INTERCHANGE CONTROL REFERENCE Unique reference assigned by the sender to an interchange.	M 1 an..14

5. Use cases and sample messages

5.1. Use case 1- Direct VGM Submission – Single Container

```
UNB+UNOC:3+SENDER_ID:ZZZ+HSD+160302:1347+0234401'
UNH+001+VERMAS:D:16A:UN:0.8'
BGM+VGM+SH377285+9'
DTM+137:201603021345:203'
NAD+TB+801345::192++SHIPPER_NAME+STREET_ADDRESS'
EQD+CN+SUDU3019284:6346:5'
RFF+BN:6HAMSA0168'
MEA+AAE+VGM+KGM:13401.5'
DTM+798:201603011455:203'
DOC+SHP:VGM:306'
DTM+225:201603022200:203'
NAD+SPC+801345::192++SHIPPER_NAME+STREET_ADDRESS'
CTA+RP+:JOHN ADAMS'
UNT+13+001'
UNZ+1+0234401'
```

5.2. Use case 2- Direct VGM Submission – Multiple Containers

```
UNB+UNOC:3+SENDER_ID:ZZZ+HSD+160302:1347+0234734'
UNH+001+VERMAS:D:16A:UN:0.8'
BGM+VGM+SH680285+9'
DTM+137:201603021345:203'
NAD+SPC+801345::192++SHIPPER_NAME+STREET_ADDRESS'
EQD+CN+SUDU5386721:6346:5'
RFF+BN:6HAMSA0168'
MEA+AAE+VGM+KGM:24663'
DTM+798:201603011455:203'
DOC+SHP:VGM:306'
DTM+225:201603022200:203'
NAD+SPC+801345::192++SHIPPER_NAME+STREET_ADDRESS'
CTA+RP+:JAMES SMITH'
EQD+CN+SUDU3019284:6346:5'
RFF+BN:6HAMSA0170'
MEA+AAE+VGM+KGM:14576'
DTM+798:201603011500:203'
DOC+SHP:VGM:306'
DTM+225:201603022200:203'
NAD+SPC+801345::192++SHIPPER_NAME+STREET_ADDRESS'
CTA+RP+:JAMES SMITH'
UNT+21+001'
UNZ+1+0234734'
```


5.3. Use case 3- 3rd Party Participant VGM Submission

UNB+UNOC:3+SENDER ID:ZZZ+FORWARDER_ID:ZZZ+160302:1347+8293293'
UNH+001+VERMAS:D:16A:UN:0.8'
BGM+VGM+SH377285+9'
DTM+137:201603021345:203'
NAD+TB+803928::192++WEIGHING PARTY NAME+STREET ADDRESS'
EQD+CN+ SUDU5386721:6346:5'
RFF+BN:6HAMSA0168'
MEA+AAE+VGM+KGM:6930.8'
DTM+798:201603021455:203'
DOC+SM1:VGM:306:WGTT+WT30999'
NAD+WPA+++WEIGHING PARTY NAME+STREET ADDRESS'
DOC+SHP:VGM:306'
NAD+FW+800234::192++FORWARDER NAME+STREET ADDRESS'
UNT+12+001'
UNZ+1+8293293'