



MAERSK LINE

User Manual (Implementation Guide)

UN/EDIFACT MESSAGE

VERMAS

Verified Gross Mass

For operational processes only
(Inbound & outbound)

SMDG v0.4

Document version 1.0

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Introduction

This user manual (Message Implementation Guide) has been developed by Maersk Line to assist interested EDI partners in developing and implementing the UN/EDIFACT VERMAS message with Maersk Line.

It has been developed in support of operational processes handling the communication of the Verified Gross Mass (VGM). *Note: different requirements may apply for VGM notification from shippers to carriers and/or terminals.*

This user manual is based on the SMDG document "User Manual (Implementation Guide) UN/EDIFACT MESSAGE VERMAS Version 0.4. D16A". SMDG is expected to publish stable version 1.0 by the end of May 2016. UN/CEFACT has approved VERMAS SMDG version 1.0 and is expected to publish EDIFACT VERMAS D16A by end of June 2016.

Minor changes to this Message Implementation Guide (i.e. replacing temporary qualifiers) are possible once the stable EDIFACT and SMDG versions have been published.

General

The Verified Gross Mass message (VERMAS) permits to submit the Verified Gross Mass of the packed container and supporting information as legally required by the SOLAS Convention Chapter VI, Part A, Regulation 2.

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

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

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

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Document maintenance

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Status Indicators

Status Indicators (M and C) form part of the UN/EDIFACT standard and indicate a minimum requirement to fulfill the needs of the message structure.

The Status Indicators are:-

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

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

Usage Indicators

Throughout this document reference is made to indicators (M, R, D, O and X) which are shown adjacent to data items and which dictate for the particular message or set thereof the agreed usage of the data items or entities.

Set out below are the indicators and their respective uses:-

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

Segment table

<u>Pos</u>	<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Rep</u>	<u>Usage</u>
0010	UNH	MESSAGE HEADER	C	1	R
0020	BGM	BEGINNING OF MESSAGE	C	1	R
0030	DTM	DATE/TIME/PERIOD	C	1	O
0040		<i>Segment Group 1: RFF-DTM</i>	<i>C</i>	<i>9</i>	<i>X</i>
0050	RFF	REFERENCE	M	1	X
0060	DTM	DATE/TIME/PERIOD	C	1	X
0070		Segment Group 2: NAD-SG3	C	9	R
0080	NAD	NAME AND ADDRESS	M	1	M
0090		Segment Group 3: CTA-COM	C	9	O
0100	CTA	CONTACT INFORMATION	M	1	M
0110	COM	COMMUNICATION CONTACT	C	9	O
0120		Segment Group 4: EQD-RFF-LOC-SEL-SG5	C	99999	R
0130	EQD	EQUIPMENT DETAILS	M	1	M
0140	RFF	REFERENCE	C	9	R
0150	LOC	PLACE/LOCATION IDENTIFICATION	C	9	X
0160	SEL	SEAL NUMBER	C	9	X
0170		Segment Group 5: MEA-DTM	C	9	R
0180	MEA	MEASUREMENTS	M	1	M
0190	DTM	DATE/TIME/PERIOD	C	9	X
0200		<i>Segment Group 6: TDT-RFF</i>	<i>C</i>	<i>9</i>	<i>X</i>
0210	TDT	TRANSPORT INFORMATION	M	1	X
0220	RFF	REFERENCE	C	9	X
0230		Segment Group 7: DOC-DTM-SG8	C	9	O
0240	DOC	DOCUMENT/MESSAGE DETAILS	M	1	M
0250	DTM	DATE/TIME/PERIOD	C	9	X
0260		Segment Group 8: NAD-SG9	C	9	O
0270	NAD	NAME AND ADDRESS	M	1	M
0280		Segment Group 9: CTA-COM	C	9	O
0290	CTA	CONTACT INFORMATION	M	1	M
0300	COM	COMMUNICATION CONTACT	C	9	O
0310	UNT	MESSAGE TRAILER	C	1	R

Sample message - inbound from load port

UNB+UNOC:3+PARTNER+MAEU+160501:1005+010101'
UNH+01010100001+VERMAS:D:16A:UN:SMDG10'
BGM+XXX+20160501011015+5'
DTM+137:20160501011015:203'
EQD+CN+MSKU3722867+42G0:6346:5+++5'
RFF+BN:986574423'
MEA+AAE+VGM+KGM:12145'
UNT+27+01010100001'
UNZ+1+010101'

Sample message - inbound from weighing facility

UNB+UNOC:3+PARTNER+MAEU+160501:1005+010101'
UNH+01010100001+VERMAS:D:16A:UN:SMDG10'
BGM+XXX+20160501011015+5'
DTM+137:20160501011015:203'
NAD+TB++SPACE AGE TERMINALS'
CTA+IC+:JOHN SMITH'
COM+?+31107127000:TE'
EQD+CN+MSKU3722867+42G0:6346:5+++5'
RFF+BN:986574423'
MEA+AAE+VGM+KGM:12145'
NAD+SPC++SPACE AGE LOGISTICS+23 MERCURY RD:APOLLOVILLE, PA'
CTA+RP+:TOM MAJOR'
COM+TMAJOR@SPACELOG.COM:EM'
UNT+27+01010100001'
UNZ+1+010101'

Sample message - outbound to load port

UNB+UNOC:3+MAEU+PARTNER+160501:0501+010101'
UNH+01010100001+VERMAS:D:16A:UN:SMDG10'
BGM+XXX+20160501010141+5'
DTM+137:20160501010141:203'
EQD+CN+MSKU3722867+42G0:6346:5+++5'
RFF+BN:986574423'
MEA+AAE+VGM+KGM:12145'
UNT+27+01010100001'
UNZ+1+010101'

Segment: UNH Message Header
Position: 0010
Group:
Level: 0
Usage: Conditional (Required)
Max Use: 1
Purpose: A service segment starting and uniquely identifying a message. The message type code for the Verified Gross Mass message is VERMAS.
 Note: Container announcement messages conforming to this document must contain the following data in segment UNH, composite S009:
 Data element 0065 VERMAS 0052 D 0054 16A 0051 UN
Comments:
Notes: UNH+00000000000001+VERMAS:D:16A:UN:SMDG10'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	0062		MESSAGE REFERENCE NUMBER <i>Unique message reference</i>	M an..14
M	S009		MESSAGE IDENTIFIER	M
M		0065	Message type identifier VERMAS <i>Verified Gross Mass message</i>	M an..6
M		0052	Message type version number D <i>Draft version/UN/EDIFACT Directory</i>	M an..3
M		0054	Message type release number 16A <i>Release 2016 - A</i>	M an..3
M		0051	Controlling agency UN <i>UN/ECE/TRADE/WP.4, United Nations Standard Messages (UNSM)</i>	M an..2
O		0057	Association assigned code SMDG10 <i>SMDG Version 1.0</i>	C an..6
O	0068		COMMON ACCESS REFERENCE	C an..35
O	S010		STATUS OF THE TRANSFER	C
O		0070	Sequence message transfer number	M n..2
O		0073	First/last sequence message transfer indication	C a1

Segment: **BGM** Beginning of Message
Position: 0020
Group:
Level: 0
Usage: Conditional (Required)
Max Use: 1
Purpose: A segment to indicate the beginning of a message and to transmit identifying number and the further specification of the message type (in data element 1001: Document/message name, coded), such as Empty container disposition order, Release order, Pre-arrival notice, Acceptance order, Empty container notice, Call-down order.
Comments:
Notes: *BGM+104+0000000001+9'*

Data Element Summary				
	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
R	C002		DOCUMENT/MESSAGE NAME	C
R		1001	Document/message name, coded <i>XXX Not yet confirmed by UN/CEFACT</i>	C an..3
O		1131	Code list qualifier	C an..3
O		3055	Code list responsible agency, coded	C an..3
O		1000	Document/message name	C an..35
R	1004		DOCUMENT/MESSAGE NUMBER <i>Unique sender reference number</i>	C an..35
R	1225		MESSAGE FUNCTION, CODED <i>1 Cancellation 5 Replace 9 Original</i>	C an..3
O	4343		RESPONSE TYPE, CODED	C an..3

Segment: **DTM** Date/Time/Period
Position: 0030
Group:
Level: 1
Usage: Conditional (Optional)
Max Use: 1
Purpose: A segment to indicate the arrival date and time of an inland means of transport, such as: - arrival date/time, estimated

Comments:
Notes: DTM+137:201605011400:203'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	C507		DATE/TIME/PERIOD	M
M		2005	Date/time/period qualifier 137 Document/message date/time	M an..3
O		2380	Date/time/period Estimated arrival/departure date/time	C an..35
O		2379	Date/time/period format qualifier 203 CCYYMMDDHHMM	C an..3

Segment: **NAD** Name and Address
Position: 0080 (Trigger Segment)
Group: Segment Group 2 (Name and Address) Conditional (Required)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment to identify the party's name and address, and function, and other addresses, such as: - ordering customer - ordering customer agent - message recipient - message sender - place of positioning - place of collection - final place of positioning - carrier agent (sea) - charges payer
Comments: Segment to indicate the party submitting the VERMAS. This not necessarily the party responsible for obtaining the VGM nor the party certifying the VGM..
Notes: NAD+TB++SPACE AGE TERMINALS'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	3035		PARTY QUALIFIER	M an..3
			TB Submitter	
O	C082		PARTY IDENTIFICATION DETAILS	C
M		3039	Party id. Identification	M an..35
O		1131	Code list qualifier	C an..3
O		3055	Code list responsible agency, coded	C an..3
O	C058		NAME AND ADDRESS	C
O		3124	Name and address line	C an..35
			Company name of the submitting party	
O		3124	Name and address line	C an..35
O	C080		PARTY NAME	C
M		3036	Party name	M an..35
O		3036	Party name	C an..35
O		3036	Party name	C an..35
O		3036	Party name	C an..35
O		3036	Party name	C an..35
O		3045	Party name format, coded	C an..3
O	C059		STREET	C
M		3042	Street and number/p.o. box	M an..35
O		3042	Street and number/p.o. box	C an..35
O		3042	Street and number/p.o. box	C an..35
O	3164		CITY NAME	C an..35
O	3229		COUNTRY SUB-ENTITY IDENTIFICATION	C an..9
O	3251		POSTCODE IDENTIFICATION	C an..9
O	3207		COUNTRY, CODED	C an..3

Segment: **CTA** **Contact information**
Position: 0100
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.
Comments: Segment is sent at least once under Message Sender (NAD+MS) to specify name of user submitting the message.
Notes: *CTA+IC+:JOHN SMITH'*

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
R	3139		Contact function, coded <i>IC Information contact</i>	C
R	C056		DEPARTMENT OR EMPLOYEE DETAILS	C an..3
X		3413	Department or employee identification <i>Contact person name</i>	C an..17
R		3412	Department or employee <i>Contact person/department (free text)</i>	C an..35

Segment: **COM** **Communication contact**
Position: 0110
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.
Comments:
Notes: *COM+?+31107127000:TE'*

Data Element Summary				
	<u>Data</u>	<u>Component</u>		<u>Attributes</u>
	<u>Element</u>	<u>Element</u>	<u>Name</u>	
R	C076		COMMUNICATION CONTACT	M
R		3148	Communication number <i>Contact email address, telephone/fax number</i>	M an..512
R		3155	Communication cannel qualifier <i>TE Telephone</i> <i>EM Electronic mail</i> <i>FX Telefax</i>	C an..3

Segment: **EQD** Equipment Details
Position: 0130 (Trigger Segment)
Group: Segment Group 4 (Equipment Details) Conditional (Required)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment to specify a container, container size and type, and full/empty indication; also to specify the type of rail car on which a related container is transported.
Comments:
Notes: *EQD+CN+MAEU1234567+45G1:6346:5+++5'*

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	8053		EQUIPMENT QUALIFIER <i>CN Container</i>	M an..3
O	C237		EQUIPMENT IDENTIFICATION	C
O		8260	Equipment identification number <i>Container number, transmitted as it appears on the equipment.</i>	C an..17
O		1131	Code list qualifier	C an..3
O		3055	Code list responsible agency, coded	C an..3
O		3207	Country, coded	C an..3
R	C224		EQUIPMENT SIZE AND TYPE	C
R		8155	Equipment size and type identification <i>ISO 6346.2 size/type code</i>	C an..10
O		1131	Code list qualifier <i>6346 Size and type according to ISO6346</i>	C an..3
O		3055	Code list responsible agency, coded <i>5 ISO (International Organization for Standardization)</i>	C an..3
O		8154	Equipment size and type	C an..35
O	8077		EQUIPMENT SUPPLIER, CODED <i>1 Shipper supplied 2 Carrier supplied</i>	C an..3
O	8249		EQUIPMENT STATUS, CODED	C an..3
O	8169		FULL OR EMPTY INDICATOR CODE <i>4 Empty 5 Full</i>	C an..3
O	4233		MARKING INSTRUCTIONS CODE	C an..3

Segment: **RFF** Reference
Position: 0140
Group: Segment Group 4 (Details of Transport) Conditional (Required)
Level: 2
Usage: Conditional (Required)
Max Use: 9
Purpose: A segment to provide a reference for the liner service, such as: - conference - marketing organization - syndicate - vessel sharing agreement
Comments:
Notes: *RFF+BN:123456789'*

Data Element Summary				
	<u>Data</u>	<u>Component</u>		
	<u>Element</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	C506		REFERENCE	M
M		1153	Reference qualifier <i>BN Booking number</i>	M an..3
O		1154	Reference number <i>Maersk Line booking number</i>	C an..35
O		1156	Line number	C an..6
O		4000	Reference version number	C an..35

Segment: **MEA** Measurements
Position: 0180
Group: Segment Group 5 (Measurements) Conditional (Required)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment to specify measurement, other than dimensions, associated with the container, such as: - tare weight - gross weight
Comments:
Notes: *MEA+AAE+VGM+KGM:18357'*

Data Element Summary				
	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	6311		MEASUREMENT APPLICATION QUALIFIER <i>AAE Measurement</i>	M an..3
R	C502		MEASUREMENT DETAILS	C
R		6313	Measurement dimension, coded <i>G Gross weight</i> <i>VGM Transport equipment's gross mass (weight) verified according to SOLAS Chapter VI, Regulation 2, paragraphs 4-6</i>	C an..3
O		6321	Measurement significance, coded	C an..3
O		6155	Measurement attribute, coded	C an..3
O		6154	Measurement attribute	C an..70
R	C174		VALUE/RANGE	C
M		6411	Measure unit qualifier <i>KGM Kilograms</i> <i>LBR Pounds</i>	M an..3
R		6314	Measurement value <i>Weight, volume or percentage</i>	C n..18
O		6162	Range minimum	C n..18
O		6152	Range maximum	C n..18
O		6432	Significant digits	C n..2
O	7383		SURFACE/LAYER INDICATOR, CODED	C an..3

Segment: **DOC** Document/Message Details
Position: 0240
Group: Segment Group 7 (Document/Message Details) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: To identify documents and directly related to them.
Comments:
Notes: *DOC+SM1:VGM:306'*

Data Element Summary				
	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	C002		DOCUMENT/MESSAGE NAME	M
R		1001	Document name code	C an..3
			SM1 Certificate for ascertainment of VGM according to method 1	
			SM2 Certificate for ascertainment of VGM according to method 2	
O		1131	Code list identification code	C an..17
			VGM Verified Gross Mass Information	
O		3055	Code list responsible agency code	C an..3
			306 SMD (Ship-planning Message Design Group)	
O		1000	Document name	C an..35
O	C503		DOCUMENT/MESSAGE DETAILS	C
O		1004	Document identifier	C an..70
O		1373	Document status code	C an..3
O		1366	Document source description	C an..70
O		3453	Language name code	C an..3
O		1056	Version identifier	C an..9
O		1060	Revision identifier	C an..6
O	3153		COMMUNICATION MEDIUM TYPE CODE	C an..3
O	1220		DOCUMENT COPIES REQUIRED QUANTITY	C n..2
O	1218		DOCUMENT ORIGINALS REQUIRED QUANTITY	C n..2

Segment: **NAD** Name and Address
Position: 0270
Group: Segment Group 8 (Name and Address) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 9
Purpose: A group to qualify and specify name and address information in VGM documentation.
Comments:
Notes: *NAD+SPC++SPACE AGE LOGISTICS+23 MERCURIUS RD:APOLLOVILLE, PA'*

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
M	3035		PARTY QUALIFIER <i>SPC party responsible for obtaining the VGM (in SOLAS named "shipper of packed container")</i>	M an..3
O	C082		PARTY IDENTIFICATION DETAILS	C
M		3039	Party id. identification	M an..35
O		1131	Code list qualifier	C an..3
O		3055	Code list responsible agency, coded <i>87 Assigned by carrier</i> <i>ZZZ Mutually assigned</i>	C an..3
O	C058		NAME AND ADDRESS	C
O		3124	Name and address line	C an..35
O		3124	Name and address line	C an..35
O	C080		PARTY NAME	C
M		3036	Party name	M an..35
O		3036	Party name	C an..35
O		3036	Party name	C an..35
O		3036	Party name	C an..35
O		3036	Party name	C an..35
O		3045	Party name format, coded	C an..3
O	C059		STREET	C
M		3042	Street and number/p.o. box	M an..35
O		3042	Street and number/p.o. box	C an..35
O		3042	Street and number/p.o. box	C an..35
O	3164		CITY NAME	C an..35
O	3229		COUNTRY SUB-ENTITY IDENTIFICATION	C an..9
O	3251		POSTCODE IDENTIFICATION	C an..9
O	3207		COUNTRY, CODED	C an..3

Segment: **CTA** **Contact information**
Position: 0290
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.
Comments: With function code RP the segment is used for transmission of a signature (person's name in CAPITAL letters).
Notes: **CTA+RP:TOM MAJOR'**

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
R	3139		Contact function, coded <i>RP</i> <i>Authorized responsible person</i> <i>BM</i> <i>Certification contact</i>	C
R	C056		DEPARTMENT OR EMPLOYEE DETAILS	C an..3
O		3413	Department or employee identification	C an..17
R		3412	Department or employee <i>Contact person/department (free text)</i>	C an..35

Segment: **COM** **Communication contact**
Position: 0300
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.
Comments:
Notes: *COM+?+31107127000:TE'*

Data Element Summary				
	<u>Data</u>	<u>Component</u>		<u>Attributes</u>
	<u>Element</u>	<u>Element</u>	<u>Name</u>	
M	C076		COMMUNICATION CONTACT	M
M		3148	Communication number <i>Contact telephone number</i>	M an..512
M		3155	Communication cannal qualifier <i>EM Electronic mail</i> <i>FX Fax</i> <i>TE Telephone</i>	M an..3

Segment: **UNT** Message Trailer

Position: 0310

Group:

Level: 0

Usage: Conditional (Required)

Max Use: 1

Purpose: A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.

Comments:

Notes: *UNT+29+001'*

Data Element Summary

	Data		Component	Name	Attributes
	<u>Element</u>	<u>Element</u>			
M	0074			NUMBER OF SEGMENTS IN A MESSAGE <i>Total number of segments in the message</i>	M n..6
M	0062			MESSAGE REFERENCE NUMBER <i>Message reference identical to e0062 in UNH segment</i>	M an..14

Transmission of signatures in VERMAS

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

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

Example:

NAD+AM+++JOHN P. SMITH:C/O A1 LTD+B1 STREET 100:PO BOX 1000+C CITY++9000+DE’	Name/address of shipper’s authorized person – Name is not considered as signature
CTA+RP+: JOHN P. SMITH’	Name is considered as signature

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