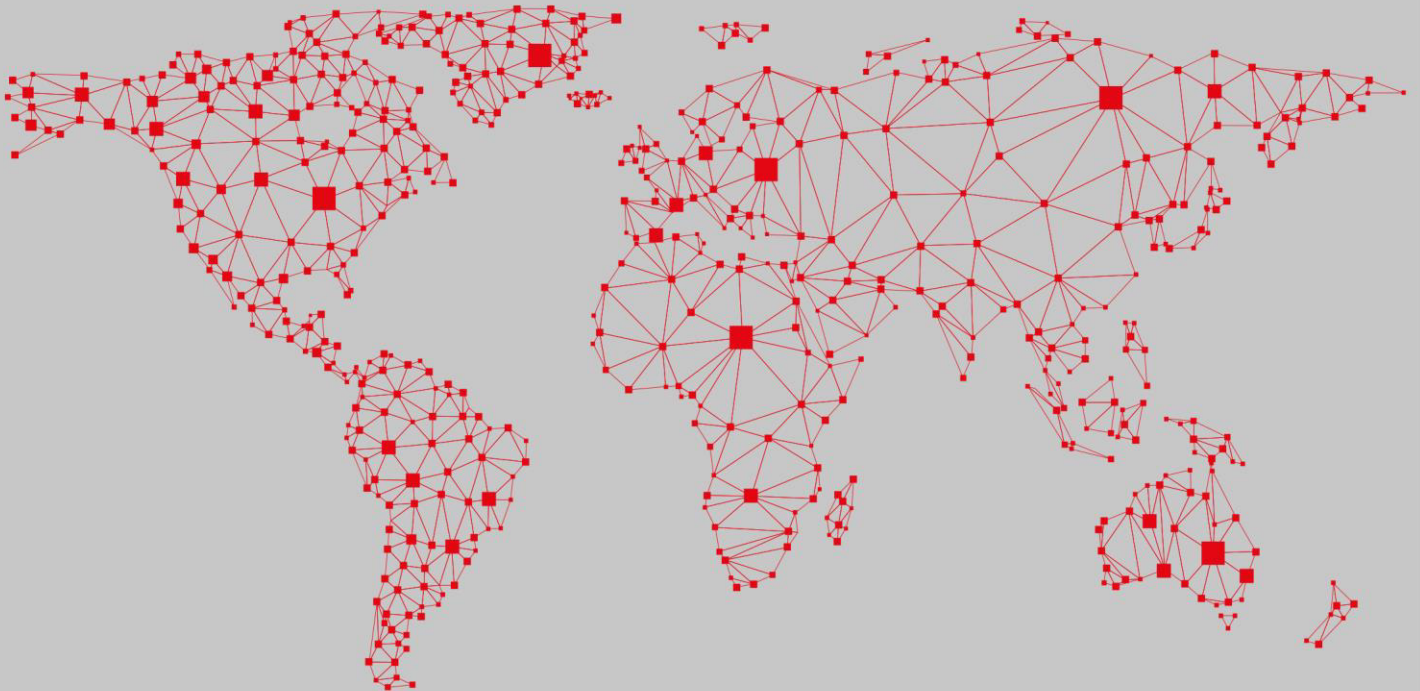


ALPO SOLAS VGM XML SCHEMA GUIDE

VERSION 1.0



VERSION OVERVIEW

Date	Version	Change Log	Author
23.06.2025	1.0	Document creation	Sven Ochterbeck

INTRODUCTION

The following XML Schema Guide describes the ALPO OrderIn XML interface with regard to the transfer of orders for the transmission of SOLAS VGM weights to shipping companies.

It is based on "ALPO_OrderIn_extern_V1_47.xsd," which is also available as a technical document.

The general functionality of the interface is described in the document "ALPO_General Interface Documentation_V1.0".

It is possible to connect to a test system to check the implementation of the interface.

Please do not hesitate to contact us if you have any questions.

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Structure

Occurrence	Element/Attribute
	AdvantageEnterpriseVersion0.1
1 .. 1	xs:sequence
1 .. 1	SENDER
1 .. 1	xs:sequence
1 .. 1	ID_SENDERSYSTEM
1 .. 1	SENDER_REFERENZ
1 .. 1	Benutzer_ID
1 .. 1	EMPFANGSSYSTEM
1 .. 1	xs:sequence
1 .. 1	ID_EMPFANGSSYSTEM
1 .. 1	NachrichtenZeitstempel
1 .. 1	xs:sequence
1 .. 1	Tag
1 .. 1	Zeit
1 .. 1	xs:choice
1 .. 50	SOLAS
1 .. 1	xs:sequence
1 .. 1	status
1 .. 1	ID_SENDERSYSTEM
1 .. 1	Benutzer_ID
1 .. 1	verantwortlichePerson
1 .. 1	xs:sequence
1 .. 1	verantwortlicherName
1 .. 1	verantwortlicherFirma_Name1
0 .. 1	verantwortlicherFirma_Name2
0 .. 1	verantwortlicherStrasse
0 .. 1	verantwortlicherPlz
0 .. 1	verantwortlicherOrt
0 .. 1	verantwortlicherLand
0 .. 1	verantwortlicherEmail
0 .. 1	verantwortlicherTelefon
0 .. 1	verantwortlicherFax
1 .. 1	empfaenger
1 .. 1	xs:sequence
0 .. 1	empfaengerCode
0 .. 1	empfaengerFirma_Name1
0 .. 1	empfaengerFirma_Name2
0 .. 1	empfaengerPlz
0 .. 1	empfaengerOrt
0 .. 1	empfaengerLand
0 .. 1	empfaengerEmail
1 .. 1	ExchangeEmail
1 .. 1	ExchangeEdi
1 .. 1	vgmContainerNr
0 .. 1	isoCode
1 .. 1	shippersowned
1 .. 1	buchungsNr
1 .. 1	vgmGewicht
1 .. 1	vgmGewichtErmittlung
0 .. 1	dokumentNr
0 .. 1	dokumentDatum

Bold = Simple Element, **Bold on grey background** = Complex Element, *Italic* = Attribute, **Grey** = Group

Occurrence	Element/Attribute
0 .. 1	ladehafen
0 .. 1	ets
0 .. 1	bestimmungshafen
0 .. 1	bINr
0 .. 1	schiffsname
0 .. 1	reiseNr
0 .. 1	siegelnummerList
1 .. 1	xs:sequence
1 .. 9	siegel
1 .. 1	xs:sequence
0 .. 1	siegelnummer
0 .. 1	spediteur
1 .. 1	xs:sequence
0 .. 1	spediteurFirma_Name1
0 .. 1	spediteurFirma_Name2
0 .. 1	spediteurPlz
0 .. 1	spediteurOrt
0 .. 1	spediteurLand
0 .. 1	spediteurName
0 .. 1	spediteurEmail
0 .. 1	spediteurTelefon
0 .. 1	spediteurFax
0 .. 1	wiegefirma
1 .. 1	xs:sequence
0 .. 1	wiegefirmaFirma_Name1
0 .. 1	wiegefirmaFirma_Name2
0 .. 1	wiegefirmaPlz
0 .. 1	wiegefirmaOrt
0 .. 1	wiegefirmaLand
0 .. 1	wiegefirmaName
0 .. 1	wiegefirmaEmail
0 .. 1	wiegefirmaTelefon
0 .. 1	wiegefirmaFax

Bold = Simple Element, Bold on grey background = Complex Element, Italic = Attribute, Grey = Group

Guideline

Element/Attribute	Annotation	
AdvantageEnterpriseVersion0.1	Type	extension (AdvantageEnterpriseType)
xs:sequence	Occurrence	1 .. 1
SENDER	Occurrence	1 .. 1
	Type	SENDERType
xs:sequence	Occurrence	1 .. 1
ID_SENDESYSTEM	Occurrence	1 .. 1
	Type	restriction (xs:string)
	Length	.. 8
	Description	Eight-digit dbh customer number, which will be provided after setup is completed by dbh.
SENDER_REFERENZ	Occurrence	1 .. 1
	Type	restriction (xs:string)
	Length	.. 50
	Description	Unique order reference of the sending system.
Benutzer_ID	Occurrence	1 .. 1
	Type	restriction (xs:string)
	Length	.. 50
	Description	User-specific ID ("OrderIN-ID"), that is assigned to each user by dbh.
EMPFANGSSYSTEM	Occurrence	1 .. 1
xs:sequence	Occurrence	1 .. 1
ID_EMPFANGSSYSTEM	Occurrence	1 .. 1
	Type	restriction (xs:string)
	Description	The appropriate code must be specified depending on the port system / port of loading.
Applicable Codes		
ALPO	POL = Bremen, Bremerhaven, Wilhelmshaven, Hamburg + SOLAS VGM	
APCS	POL = Antwerp	
NLRTMPCS	POL = Rotterdam	
NachrichtenZeitstempel	Occurrence	1 .. 1
	Type	ZeitstempelType
xs:sequence	Occurrence	1 .. 1
Tag	Occurrence	1 .. 1
	Type	xs:date
	Description	Format: YYYY-MM-DD
Zeit	Occurrence	1 .. 1
	Type	xs:time
	Description	Format: HH:MM:SS
xs:choice	Occurrence	1 .. 1
SOLAS	Occurrence	1 .. 50
	Type	SOLASOrderType
	Description	Creation of an ALPO order for the transmission of a SOLAS VGM container weight to the relevant ocean carrier.
xs:sequence	Occurrence	1 .. 1
status	Occurrence	1 .. 1
	Type	restriction (xs:string)
	Description	Controls whether the order is only saved for further manual processing in ALPO or whether it is saved and sent directly. See separate general ALPO EDI interface documentation for more information.
Applicable Codes		
Anlegen	Only save in ALPO, without sending to the ocean carrier.	
Senden	Save in ALPO and send directly to the ocean carrier.	
ID_SENDESYSTEM	Occurrence	1 .. 1
	Type	xs:string
	Description	Eight-digit dbh customer number, which will be provided

Bold = Element, *Italic* = Attribute, **Grey** = Group

Element/Attribute	Annotation
Benutzer_ID	after setup is completed by dbh. Occurrence 1 .. 1 Type xs:string Description User-specific ID, that is assigned to each user by dbh.
verantwortlichePerson	Occurrence 1 .. 1 Type SOLASVerantwortlichePersonType Description Information on the responsible person within the VGM process.
xs:sequence	Occurrence 1 .. 1
verantwortlicherName	Occurrence 1 .. 1 Type restriction (xs:string) Length .. 64 Description Name of the responsible person.
verantwortlicherFirma_Name1	Occurrence 1 .. 1 Type restriction (xs:string) Length .. 35 Description Company name of the responsible person
verantwortlicherFirma_Name2	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Company name of the responsible person (>35 characters).
verantwortlicherStrasse	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Streetname and Number
verantwortlicherPlz	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 15 Description ZIP code
verantwortlicherOrt	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 20 Description Name of the city
verantwortlicherLand	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 2 Description Country name (UN country code)
verantwortlicherEmail	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 128 Description E-Mail address
verantwortlicherTelefon	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Phone number
verantwortlicherFax	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Fax number
empfaenger	Occurrence 1 .. 1 Type SOLASEmpfaengerType Description Details of the ocean carrier to which the SOLAS VGM is to be transmitted.
xs:sequence	Occurrence 1 .. 1
empfaengerCode	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 10 Description dbh Support will provide the list of the carrier codes.

Bold = Element, *Italic* = Attribute, **Grey** = Group

Element/Attribute	Annotation
empfaengerFirma_Name1	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Company name of the ocean carrier.
empfaengerFirma_Name2	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Company name of the ocean carrier (>35 characters).
empfaengerPlz	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 15 Description ZIP code
empfaengerOrt	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 20 Description Name of the city
empfaengerLand	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 2 Description Country Name (UN country code)
empfaengerEmail	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 128
ExchangeEmail	Occurrence 1 .. 1 Type xs:boolean Description Should the VGM be sent to the shipping company by email? It can only be either <ExchangeEmail> OR <ExchangeEdi> = true. Values: true / false
ExchangeEdi	Occurrence 1 .. 1 Type xs:boolean Description Should the VGM be sent to the shipping company by EDI (VERMAS message)? It can only be either <ExchangeEmail> OR <ExchangeEdi> = true. Values: true / false
vgmContainerNr	Occurrence 1 .. 1 Type restriction (xs:string) Length .. 11 Description Container number for which the VGM weight is reported.
isoCode	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 4 Description Specify the container ISO code. See the list of "Container ISO codes" at: https://www.dbh.de/kis/hafenwirtschaft/bht-wht
shippersowned	Occurrence 1 .. 1 Type xs:boolean Description Is it a shipper's own container? Values: true / false
buchungsNr	Occurrence 1 .. 1 Type restriction (xs:string) Length .. 32 Description Booking number of the ocean carrier.
vgmGewicht	Occurrence 1 .. 1 Type restriction (xs:integer) FractionDigits 0 Inclusive 0 .. Description Specification of the VGM weight in kilograms.

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Element/Attribute	Annotation
vgmGewichtErmittlung	Occurrence 1 .. 1 Type restriction (xs:string) Length .. 3 Description Specification of the method used to determine the VGM weight. Applicable Codes SM1 Weighing SM2 Calculation
dokumentNr	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Document number of the weighing certificate.
dokumentDatum	Occurrence 0 .. 1 Type xs:dateTime Description Date of issue of the weighing certificate.
ladehafen	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 5 Description Port of Loading (UN location code)
ets	Occurrence 0 .. 1 Type xs:date Description Estimated Date of Shipment
bestimmungshafen	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 5 Description Port of discharge (UN location code)
blNr	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Bill of Lading reference of the ocean carrier.
schiffsname	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 64 Description Vessel name
reiseNr	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 16 Description Ocean carrier voyage number of the sailing.
siegelnummerList	Occurrence 0 .. 1 Type SOLASSiegelnummerListType Description Option to specify container seal numbers.
xs:sequence	Occurrence 1 .. 1
siegel	Occurrence 1 .. 9 Type SOLASSiegelNummerType
xs:sequence	Occurrence 1 .. 1
siegelnummer	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Indication of the seal number.
spediteur	Occurrence 0 .. 1 Type SOLASSpediteurType Description Option to specify the freight forwarder for the shipment.
xs:sequence	Occurrence 1 .. 1
spediteurFirma_Name1	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Company name of the freight forwarder.
spediteurFirma_Name2	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35

Bold = Element, *Italic* = Attribute, Grey = Group

Element/Attribute	Annotation
spediteurPlz	Description Company name of the freight forwarder (>35 characters). Occurrence 0 .. 1 Type restriction (xs:string) Length .. 15
spediteurOrt	Description ZIP Code Occurrence 0 .. 1 Type restriction (xs:string) Length .. 20
spediteurLand	Description Name of the city Occurrence 0 .. 1 Type restriction (xs:string) Length .. 2
spediteurName	Description Country Name (UN country code) Occurrence 0 .. 1 Type restriction (xs:string) Length .. 64
spediteurEmail	Description Contact person at the freight forwarder. Occurrence 0 .. 1 Type restriction (xs:string) Length .. 128
spediteurTelefon	Description E-Mail address Occurrence 0 .. 1 Type restriction (xs:string) Length .. 32
spediteurFax	Description Phone number Occurrence 0 .. 1 Type restriction (xs:string) Length .. 32
wiegefirma	Description Fax number Occurrence 0 .. 1 Type restriction (xs:string) Length .. 32
wiegefirmaFirma_Name1	Description Option to specify the weighing company. Occurrence 0 .. 1 Type SOLASWiegefirmaType Length .. 35
wiegefirmaFirma_Name2	Description Company name of the weighing company. Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35
wiegefirmaPlz	Description Company name of the weighing company (>35 characters). Occurrence 0 .. 1 Type restriction (xs:string) Length .. 15
wiegefirmaOrt	Description ZIP Code Occurrence 0 .. 1 Type restriction (xs:string) Length .. 20
wiegefirmaLand	Description Name of the city Occurrence 0 .. 1 Type restriction (xs:string) Length .. 2
wiegefirmaName	Description Country Name (UN country code) Occurrence 0 .. 1 Type restriction (xs:string) Length .. 64
wiegefirmaContact	Description Contact person at the weighing company. Occurrence 0 .. 1 Type restriction (xs:string) Length .. 128

Bold = Element, *Italic* = Attribute, **Grey** = Group

Element/Attribute	Annotation
wiegefirmaEmail	Occurence 0 .. 1 Type restriction (xs:string) Length .. 128 Description E-Mail adress
wiegefirmaTelefon	Occurence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Phone number
wiegefirmaFax	Occurence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Fax number