

ALPO SOLAS VGM XML SCHEMA GUIDE

VERSION 1.0



VERSION OVERVIEW

Date	Version	Change Log	Author
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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
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Occurrence	Element/Attribute
1 .. 1	AdvantageEnterpriseVersion0.1
	xs:sequence
1 .. 1	SENDER
	xs:sequence
1 .. 1	ID_SENDERSYSTEM
1 .. 1	SENDER_REFERENZ
1 .. 1	Benutzer_ID
1 .. 1	EMPFANGSSYSTEM
	xs:sequence
1 .. 1	ID_EMPFANGSSYSTEM
1 .. 1	NachrichtenZeitstempel
	xs:sequence
1 .. 1	Tag
1 .. 1	Zeit
	xs:choice
1 .. 50	SOLAS
	xs:sequence
1 .. 1	status
1 .. 1	ID_SENDERSYSTEM
1 .. 1	Benutzer_ID
1 .. 1	verantwortlichePerson
	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
	xs:sequence
1 .. 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_SENDERSYSTEM	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 manuel 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_SENDERSYSTEM	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	<p>after setup is completed by dbh.</p> <p>Occurrence 1 .. 1 Type xs:string Description User-specific ID, that is assigned to each user by dbh.</p>
verantwortlichePerson	<p>Occurrence 1 .. 1 Type SOLASVerantwortlichePersonType Description Information on the responsible person within the VGM process.</p>
xs:sequence	Occurrence 1 .. 1
verantwortlicherName	<p>Occurrence 1 .. 1 Type restriction (xs:string) Length .. 64 Description Name of the responsible person.</p>
verantwortlicherFirma_Name1	<p>Occurrence 1 .. 1 Type restriction (xs:string) Length .. 35 Description Company name of the responsible person</p>
verantwortlicherFirma_Name2	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Company name of the responsible person (>35 characters).</p>
verantwortlicherStrasse	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Streetname and Number</p>
verantwortlicherPlz	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 15 Description ZIP code</p>
verantwortlicherOrt	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 20 Description Name of the city</p>
verantwortlicherLand	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 2 Description Country name (UN country code)</p>
verantwortlicherEmail	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 128 Description E-Mail address</p>
verantwortlicherTelefon	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Phone number</p>
verantwortlicherFax	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Fax number</p>
empfaenger	<p>Occurrence 1 .. 1 Type SOLASEmpfaengerType Description Details of the ocean carrier to which the SOLAS VGM is to be transmitted.</p>
xs:sequence	Occurrence 1 .. 1
empfaengerCode	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 10 Description dbh Support will provide the list of the carrier codes.</p>

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

Element/Attribute	Annotation
empfaengerFirma_Name1	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Company name of the ocean carrier.</p>
empfaengerFirma_Name2	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Company name of the ocean carrier (>35 characters).</p>
empfaengerPlz	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 15 Description ZIP code</p>
empfaengerOrt	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 20 Description Name of the city</p>
empfaengerLand	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 2 Description Country Name (UN country code)</p>
empfaengerEmail	<p>Occurrence 0 .. 1 Type restriction (xs:string) Length .. 128</p>
ExchangeEmail	<p>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</p>
ExchangeEdi	<p>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</p>
vgmContainerNr	<p>Occurrence 1 .. 1 Type restriction (xs:string) Length .. 11 Description Container number for which the VGM weight is reported.</p>
isoCode	<p>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</p>
shippersowned	<p>Occurrence 1 .. 1 Type xs:boolean Description Is it a shipper's own container? Values: true / false</p>
buchungsNr	<p>Occurrence 1 .. 1 Type restriction (xs:string) Length .. 32 Description Booking number of the ocean carrier.</p>
vgmGewicht	<p>Occurrence 1 .. 1 Type restriction (xs:integer) FractionDigits 0 Inclusive 0 .. Description Specification of the VGM weight in kilograms.</p>

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

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
wiegeFirma	Description Option to specify the weighing company. Occurrence 0 .. 1 Type SOLASWiegeFirmaType
<i>xs:sequence</i>	Occurrence 1 .. 1
wiegefirmaFirma_Name1	Description Company name of the weighing company. Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35
wiegefirmaFirma_Name2	Description Company name of the weighing company (>35 characters). 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
	Description Contact person at the weighing company.

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

Element/Attribute	Annotation
<ul style="list-style-type: none"> — wiegefirmaEmail 	<ul style="list-style-type: none"> Occurence 0 .. 1 Type restriction (xs:string) Length .. 128 Description E-Mail adress
<ul style="list-style-type: none"> — wiegefirmaTelefon 	<ul style="list-style-type: none"> Occurence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Phone number
<ul style="list-style-type: none"> — wiegefirmaFax 	<ul style="list-style-type: none"> Occurence 0 .. 1 Type restriction (xs:string) Length .. 32 Description Fax number