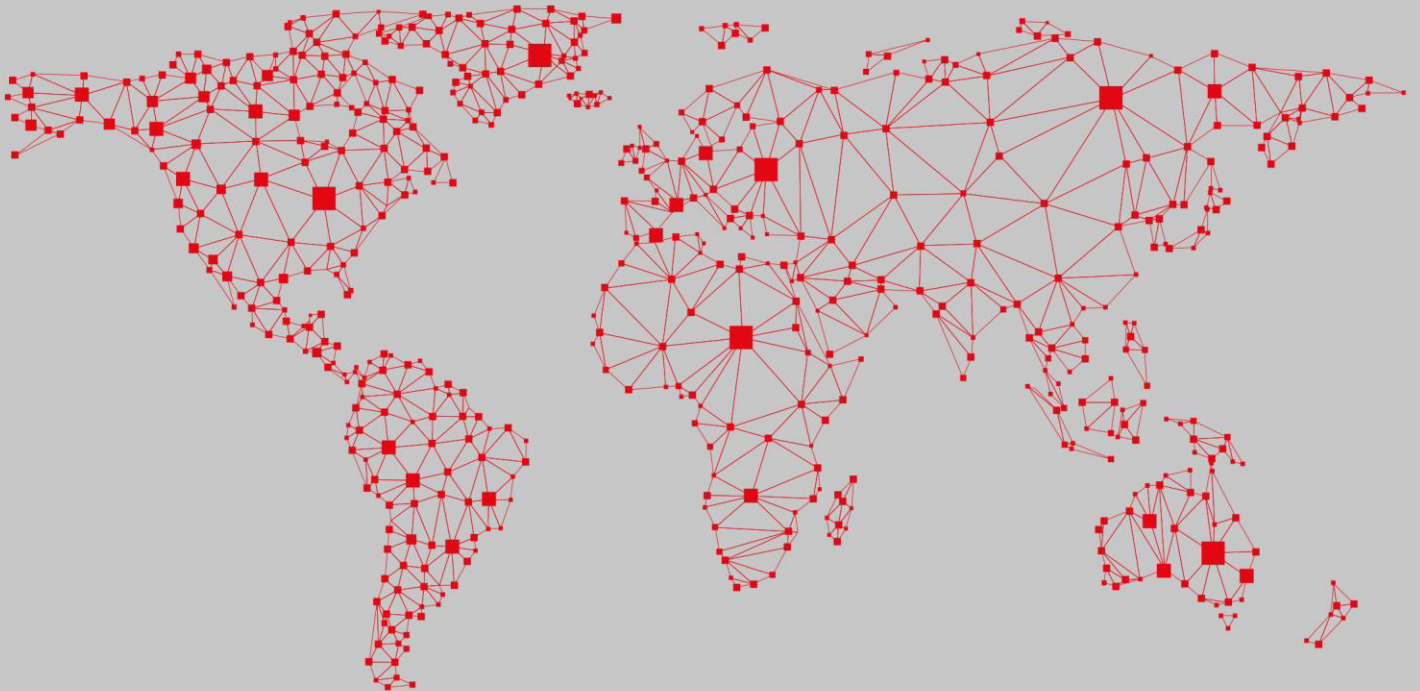


ALPO APCS XML SCHEMA GUIDE

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 port orders for APCS / Antwerp and Zeebrugge.

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.

Your dbh Logistics IT AG

Contact:

dbh Logistics IT AG

Martinistr. 47-49

28195 Bremen

E-Mail: support@dbh.de

Structure

Occurrence	Element/Attribute
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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 .. 1	xs:sequence
1 .. 1	xs:choice
1 .. 1	APCS
1 .. 1	xs:sequence
1 .. 1	APCSOrder
1 .. 1	xs:sequence
1 .. 1	Bearbeitungszustand
1 .. 1	StandardDokumentKopf
1 .. 1	xs:sequence
1 .. 1	SenderDaten
1 .. 1	xs:sequence
0 .. 1	Firma
1 .. 1	Kontaktperson
1 .. 1	xs:sequence
0 .. 1	Name
0 .. 1	Telefon
0 .. 1	Fax
0 .. 1	Email
0 .. 1	KontaktTyp
0 .. 1	DokumentZusatz
1 .. 1	xs:sequence
0 .. 1	SpeditionsbuchNr
0 .. 1	Kundenreferenz
0 .. 1	SchiffsName
0 .. 1	DatumETS
1 .. 1	xs:sequence
1 .. 1	Tag
0 .. 1	Zeit
0 .. 1	LoeschHafen
0 .. 1	Bemerkungen
1 .. 1	Antragsdaten
1 .. 1	xs:sequence
1 .. 1	ExportAuftrag
1 .. 1	xs:sequence
1 .. 1	Transaction

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

Occurrence	Element/Attribute
1 .. 1	Message Type
0 .. 1	Order Type
0 .. 1	AntragsReferenz
1 .. 1	Terminal
1 .. 99	Equipment
1 .. 1	xs:sequence
1 .. 1	EquipmentZaehler
1 .. 1	EquipmentNummer
1 .. 1	ShipperOwned
0 .. 1	BuchungsReferenz
0 .. 1	CarrierType
1 .. 1	CustomsOffice
1 .. 1	ZollDokumente
1 .. 1	xs:sequence
1 .. 99	Dokument
1 .. 1	xs:sequence
1 .. 1	MRN Type
1 .. 1	MRN

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Guideline

Element/Attribute	Annotation	
AdvantageEnterpriseVersion0.1	Type	extension (AdvantageEnterpriseType)
xs:sequence	Occurrence	1 .. 1
SENDER	Occurrence	1 .. 1
xs:sequence	Type	SENDERType
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
xs:sequence	Type	ZeitstempelType
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
xs:sequence	Occurrence	1 .. 1
xs:choice	Occurrence	1 .. 1
APCS	Occurrence	1 .. 1
	Type	APCSType
xs:sequence	Occurrence	1 .. 1
APCSOrder	Occurrence	1 .. 1
	Type	APCSOrderType
xs:sequence	Occurrence	1 .. 1
Bearbeitungszustand	Occurrence	1 .. 1
	Type	restriction (xs:string)
	Description	Controls whether the order is saved for further manuel processing in ALPO, saved and sent directly, or cancelled. See separate general ALPO EDI interface documentation for more information.
Applicable Codes		
CANCELATION		
Cancelation		
NEU		

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

Element/Attribute	Annotation
	Applicable Codes
	NEU_SENDEN
	NEW
	NEWANDSEND
	Neu
	Neu_Senden
	New
	NewAndSend
	REPLACE
	Replace
	STORNO
	Storno
	Do not use!
	Do not use!
StandardDokumentKopf	Occurrence 1 .. 1
	Type eBalieStandartDocumentKopfType
<i>xs:sequence</i>	Occurrence 1 .. 1
SenderDaten	Occurrence 1 .. 1
	Type SenderDatenType
<i>xs:sequence</i>	Occurrence 1 .. 1
Firma	Occurrence 0 .. 1
	Type restriction (xs:string)
	Length .. 30
	Description Company name of the issuing company.
Kontaktperson	Occurrence 1 .. 1
	Type KontaktpersonType
	Description Contact details of the issuing person.
<i>xs:sequence</i>	Occurrence 1 .. 1
Name	Occurrence 0 .. 1
	Type restriction (xs:string)
	Length .. 70
	Description Name of the issuing person.
Telefon	Occurrence 0 .. 1
	Type restriction (xs:string)
	Length .. 35
	Description Phone number of the issuing person.
Fax	Occurrence 0 .. 1
	Type restriction (xs:string)
	Description Fax number of the issuing person.
Email	Occurrence 0 .. 1
	Type restriction (xs:string)
	Description E-mail adress of the issuing person.
KontaktTyp	Occurrence 0 .. 1
	Type restriction (xs:string)
	Description Always = declarant.
Applicable Codes	
declarant	
DokumentZusatz	Occurrence 0 .. 1
	Type eBalieDokumentZusatzType
<i>xs:sequence</i>	Occurrence 1 .. 1
SpeditionsbuchNr	Occurrence 0 .. 1
	Type restriction (xs:string)
	Length .. 30
	Description Order reference of the issuing party.
Kundenreferenz	Occurrence 0 .. 1
	Type restriction (xs:string)
	Length 1 .. 64
	Description Alternative order number of the order creator for administration in ALPO. Used only in ALPO and not forwarded to APCS.

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

Element/Attribute		Annotation	
	SchiffsName	Occurrence	0 .. 1
		Type	restriction (xs:string)
		Length	.. 30
		Description	Vessel name of the export vessel.
	DatumETS	Occurrence	0 .. 1
		Type	DateType
		Description	Planned departure date of the vessel (ETS/ETD).
	<i>xs:sequence</i>	Occurrence	1 .. 1
	Tag	Occurrence	1 .. 1
		Type	xs:date
		Description	Format: YYYY-MM-DD
	Zeit	Occurrence	0 .. 1
		Type	xs:time
		Description	Format: HH:MM.SS
	LoeschHafen	Occurrence	0 .. 1
		Type	restriction (xs:string)
		Length	.. 5
		Description	Port of discharge (POD).
	Bemerkungen	Occurrence	0 .. 1
		Type	restriction (xs:string)
		Length	.. 288
		Description	Comments for administration in ALPO. These are not forwarded to APCS.
	Antragsdaten	Occurrence	1 .. 1
	<i>xs:sequence</i>	Occurrence	1 .. 1
	ExportAuftrag	Occurrence	1 .. 1
		Type	eBalieExportAuftragType
	<i>xs:sequence</i>	Occurrence	1 .. 1
	Transaction	Occurrence	1 .. 1
		Type	restriction (xs:string)
		Default	C
		Description	C=Create new port order // D=Delete existing port order.
		Applicable Codes	
		C	
		D	
		c	
		d	
	MessageType	Occurrence	1 .. 1
		Type	restriction (xs:string)
		Length	.. 15
		Applicable Codes	
		EBALIE	
		Ebalie	
		ebalie	
	OrderType	Occurrence	0 .. 1
		Type	restriction (xs:string)
		Description	cont -> Container order / roro -> RoRo order If the Tag is not used, the message will be considered to be a container order.
		Applicable Codes	
		CONT	
		RORO	
		cont	
		roro	
	AntragsReferenz	Occurrence	0 .. 1
		Type	xs:string
		Description	ALPO order number, to be specified when canceling an APCS order.
	Terminal	Occurrence	1 .. 1
		Type	restriction (xs:string)
		Length	5 .. 15

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Element/Attribute	Annotation
	Description Indication of the terminal through which the shipment will be made. dbh is happy to provide the master data table.
Equipment	Occurrence 1 .. 99 Type eBalieEquipmentType
xs:sequence	Occurrence 1 .. 1
EquipmentZaehler	Occurrence 1 .. 1 Type xs:int FractionDigits 0 Inclusive 1 .. 999 Description To be specified in ascending order starting from 1.
EquipmentNumber	Occurrence 1 .. 1 Type restriction (xs:string) Length .. 17 Description Container number or vehicle identification number (VIN).
ShipperOwned	Occurrence 1 .. 1 Type restriction (xs:string) Description Indication of whether it is a shipper's own container.
	Applicable Codes FALSE False TRUE True false true
BuchungsReferenz	Occurrence 0 .. 1 Type restriction (xs:string) Length .. 35 Description Ocean carrier booking number.
CarrierType	Occurrence 0 .. 1 Type restriction (xs:string) Description Means of transport used for delivery/pre-carriage.
	Applicable Codes BG Barge RL Rail TR LKW Truck VS Vessel bg Barge rl Rail tr Truck vs Vessel
CustomsOffice	Occurrence 1 .. 1 Type restriction (xs:string) Length .. 8 Description Competent customs office at exit
	Applicable Codes BE101000 Antwerp BE343000 Zeebrugge
ZollDokumente	Occurrence 1 .. 1
xs:sequence	Occurrence 1 .. 1
Dokument	Occurrence 1 .. 99 Type eBalieDokumentType
xs:sequence	Occurrence 1 .. 1
MRNTType	Occurrence 1 .. 1 Type restriction (xs:string) Length .. 5 Description Selection of the customs document to be declared.
	Applicable Codes 226 Art. 226 CTW 2454/93 COA T2LF EX Export Declaration MRN

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

Element/Attribute	Annotation
MRN	Applicable Codes
	EXS Exit Summary Declaration
	T Transit
	T2L T2L
	TN Transshipment
	Occurrence 1 .. 1
	Type restriction (xs:string)
	Length .. 18
	Description Document number / MRN of the customs document.