

# ALPO APCS 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 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

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**Structure**

Occurrence	Element/Attribute
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Occurrence	Element/Attribute
	<b>AdvantageEnterpriseVersion0.1</b>
1 .. 1	xs:sequence
<b>1 .. 1</b>	<b>SENDER</b>
1 .. 1	xs:sequence
1 .. 1	<b>ID_SENDERSYSTEM</b>
1 .. 1	<b>SENDER_REFERENZ</b>
1 .. 1	<b>Benutzer_ID</b>
<b>1 .. 1</b>	<b>EMPFANGSSYSTEM</b>
1 .. 1	xs:sequence
1 .. 1	<b>ID_EMPFANGSSYSTEM</b>
<b>1 .. 1</b>	<b>NachrichtenZeitstempel</b>
1 .. 1	xs:sequence
1 .. 1	<b>Tag</b>
1 .. 1	<b>Zeit</b>
1 .. 1	xs:choice
1 .. 1	xs:sequence
1 .. 1	xs:choice
<b>1 .. 1</b>	<b>APCS</b>
1 .. 1	xs:sequence
<b>1 .. 1</b>	<b>APCSOrder</b>
1 .. 1	xs:sequence
1 .. 1	<b>Bearbeitungszustand</b>
<b>1 .. 1</b>	<b>StandardDokumentKopf</b>
1 .. 1	xs:sequence
<b>1 .. 1</b>	<b>SenderDaten</b>
1 .. 1	xs:sequence
0 .. 1	<b>Firma</b>
<b>1 .. 1</b>	<b>Kontaktperson</b>
1 .. 1	xs:sequence
0 .. 1	<b>Name</b>
0 .. 1	<b>Telefon</b>
0 .. 1	<b>Fax</b>
0 .. 1	<b>Email</b>
0 .. 1	<b>KontaktTyp</b>
<b>0 .. 1</b>	<b>DokumentZusatz</b>
1 .. 1	xs:sequence
0 .. 1	<b>SpeditionsbuchNr</b>
0 .. 1	<b>Kundenreferenz</b>
0 .. 1	<b>SchiffsName</b>
<b>0 .. 1</b>	<b>DatumETS</b>
1 .. 1	xs:sequence
1 .. 1	<b>Tag</b>
0 .. 1	<b>Zeit</b>
0 .. 1	<b>LoeschHafen</b>
0 .. 1	<b>Bemerkungen</b>
<b>1 .. 1</b>	<b>Antragsdaten</b>
1 .. 1	xs:sequence
<b>1 .. 1</b>	<b>ExportAuftrag</b>
1 .. 1	xs:sequence
1 .. 1	<b>Transaction</b>

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

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

## Guideline

Element/Attribute	Annotation
<b>AdvantageEnterpriseVersion0.1</b>	<b>Type</b> extension (AdvantageEnterpriseType) <b>Occurrence</b> 1 .. 1
xs:sequence	
<b>SENDER</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> SENDERType
xs:sequence	
<b>ID_SENDERSYSTEM</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> restriction (xs:string) <b>Length</b> .. 8 <b>Description</b> Eight-digit dbh customer number, which will be provided after setup is completed by dbh.
<b>SENDER_REFERENZ</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> restriction (xs:string) <b>Length</b> .. 50 <b>Description</b> Unique order reference of the sending system.
<b>Benutzer_ID</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> restriction (xs:string) <b>Length</b> .. 50 <b>Description</b> User-specific ID ("OrderIN-ID"), that is assigned to each user by dbh.
<b>EMPFANGSSYSTEM</b>	<b>Occurrence</b> 1 .. 1
xs:sequence	
<b>ID_EMPFANGSSYSTEM</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> restriction (xs:string) <b>Description</b> The appropriate code must be specified depending on the port system / port of loading.
<b>Applicable Codes</b>	
ALPO	POL = Bremen, Bremerhaven, Wilhelmshaven, Hamburg + SOLAS VGM
APCS	POL = Antwerp
NLRTMPCS	POL = Rotterdam
<b>NachrichtenZeitstempel</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> ZeitstempelType
xs:sequence	
<b>Tag</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> xs:date <b>Description</b> Format: YYYY-MM-DD
<b>Zeit</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> xs:time <b>Description</b> Format: HH:MM:SS
xs:choice	
xs:sequence	
xs:choice	
<b>APCS</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> APCSType
xs:sequence	
<b>APCSOrder</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> APCSOrderType
xs:sequence	
<b>Bearbeitungszustand</b>	<b>Occurrence</b> 1 .. 1 <b>Type</b> restriction (xs:string) <b>Description</b> Controls whether the order is saved for further manual processing in ALPO, saved and sent directly, or cancelled. See separate general ALPO EDI interface documentation for more information.
<b>Applicable Codes</b>	
CANCELTATION	Cancelation
NEU	

Bold = Element, Italic = Attribute, Grey = Group

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

ALPO APCS Schema Guide

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

Bold = Element, Italic = Attribute, Grey = Group

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

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

Element/Attribute	Annotation
<div style="border-left: 1px solid black; border-bottom: 1px solid black; padding-left: 10px; padding-bottom: 10px;"> <b>MRN</b> </div>	<b>Applicable Codes</b>
	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.