

ALPO – ORDER_IN -
DOCUMENTATION -
INTERFACE ADAPTION
- VERSION 1.0 -



Version overview

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1 Introduction

The upcoming changes in the electronic export procedure ATL@S-AES (from release 2.4 to 3.0) and the end of the “soft” migration period on **16.07.2023** make adjustments to the different products of dbh Logistics IT AG necessary. These include the BHT/WHT and ALPO (Advantage Logistics and Port Organisation). In ALPO, necessary adjustments are made to the XML-interface “ALPO-Order_IN” for the import of port orders from external systems.

One week before the official end of the soft migration period of AES 3.0, on **09.07.2023**, dbh will already **go live** with the interface adjustments in the BHT/WHT. At this time, in addition to the relevant customs changes, the adjustments from dbh customer projects and requirements, which also require an adjustment of the interfaces, will go live as well. In particular, the format change of the customer code (Umschlagkundennummer) and the offer number (Offertennummer) should be mentioned here (further details on values/contents can be found [here] for customer code (Umschlagkundennummer) and [here] for offer number).

All necessary changes are implemented together and the interfaces are equally adapted to the new circumstances.

Please do not hesitate to contact us if you have any questions regarding the contents of the documentation or the time schedule (e.g. use of the dbh test systems, etc.).

Your dbh Logistics IT AG

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1.1 Scope and content of the documentation

The documentation is intended to provide you and your employees in the specialist departments and the IT/development departments with information on which adjustments dbh Logistics IT AG will make to the existing XML-interface.

This primarily involves:

- the extension of the terminal customer code and offer number (Umschlagkunden- and Offertenummer)
- the extension of the ship voyage number (Schiffsreisenummer), the clerk (Sachbearbeiter) und the telephone number (Telefonnummer)
- the extension/modification of the AES-data

The „ALPO_OrderIn_extern_V1_46.xsd“ acts as a basis for this documentation.

The additions/changes described in this documentation refer to elements and element structures. Changes can also be taken from the general and detailed rule description.

The documentation only provides information on the essential adjustments of the XSD. Not mentioned elements and element structures remain the unchanged.

2 XML-Interface – ALPO-Order_IN

Only the mandatory changes on elements and element structures are described, all other elements and structures remain unchanged.

2.1 Port Order

Either data for a BHT/WHT or a ZAPP port order can be specified.

2.1.1 Customs data-AES

The client enters his customs information on the “electronic” customs export procedure (AES) at this point.

In addition to the familiar electronic two-stage customs export procedure, where the MRN (Master Reference Number) must be indicated in the port order from the beginning, the single-stage customs export procedure is now also possible in the BHT by indicating the LRN (Local Reference Number). The specification of data for the two procedures is largely the same and only differs in individual cases.

2.1.1.1 Element structure – HafenauftragZollDatenAESType

```

<xs:complexType name="HafenauftragZollDatenAESType">
...
  <xs:choice>
    <xs:sequence>
      <xs:element name="MRN">
        <xs:annotation>
          <xs:documentation>MRN (master reference number)</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:length value="18" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="MRNKomplett">
        <xs:annotation>
          <xs:documentation>MRN complet (AES)</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="true" />
            <xs:enumeration value="True" />
            <xs:enumeration value="TRUE" />
            <xs:enumeration value="false" />
            <xs:enumeration value="False" />
            <xs:enumeration value="FALSE" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:sequence>
    <xs:sequence>
      <xs:element name="LRN">

```

```
<xs:annotation>
  <xs:documentation>LRN (local reference number)</xs:documentation>
</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:string">
    <xs:maxLength value="22" />
  </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="LRNKomplett">
  <xs:annotation>
    <xs:documentation>LRN complet (AES)</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="true" />
      <xs:enumeration value="True" />
      <xs:enumeration value="TRUE" />
      <xs:enumeration value="false" />
      <xs:enumeration value="False" />
      <xs:enumeration value="FALSE" />
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:choice>
  <xs:sequence>
    <xs:element name="AnmelderIdentifikationsNr">
      <xs:annotation>
        <xs:documentation>Identifikations Nummer Anmelder</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="17" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="AnmelderNiederlassungsNr">
      <xs:annotation>
        <xs:documentation>Niederlassungs Nummer Anmelder</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:length value="4" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
  <xs:sequence>
    <xs:element name="VertreterIdentifikationsNr">
      <xs:annotation>
        <xs:documentation>Identifikations Nummer Vertreter</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="17" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="VertreterNiederlassungsNr">
      <xs:annotation>
        <xs:documentation>Niederlassungs Nummer Vertreter</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:choice>
```

```
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:length value="4" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:sequence>
  </xs:choice>
</xs:sequence>
</xs:choice>
```

...

```
<xs:element minOccurs="0" name="PackStueckAnzahl">
  <xs:annotation>
    <xs:documentation>amount packages</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:int">
      <xs:minInclusive value="1"/>
      <xs:maxInclusive value="99999999"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

...

```
<xs:element minOccurs="0" name="RestgewichtNetto">
  <xs:annotation>
    <xs:documentation>rest net weight</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:totalDigits value="16"/>
      <xs:fractionDigits value="6"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

```
<xs:element minOccurs="0" name="BruttoGewicht">
  <xs:annotation>
    <xs:documentation>gross weight</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:decimal">
      <xs:totalDigits value="16"/>
      <xs:fractionDigits value="3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

...

```
</xs:complexType>
```

2.1.1.2 Elements – HafenauftragZollDatenAESType

Element name (Elementname)	Description (Beschreibung)
MRN	MRN-number from the export declaration ➔ change of name to Master Reference Number
LRN	The LRN (= Local Reference Number) must be indicated if the single-stage customs export procedure is involved.
LRNKomplett	Indicator whether all goods of the LRN are present in the relevant order item.
AnmelderIdentifikationsNr	Identification number of the declarant under which name and address (if applicable in connection with a given establishment number) are stored (= EORI number).
AnmelderNiederlassungsNr	Number of the declarant's branch office, assigned by the German customs authority.
VertreterIdentifikationsNr	Identification number of the declarant's representative under which name and address (if applicable in connection with a given establishment number) are stored (= EORI number).
VertreterNiederlassungsNr	Number of the declarant's representative branch office, assigned by the German customs authority.
PackStueckAnzahl	Quantity of packages in the export declaration ➔ The format changes to „8“ digits.
RestgewichtNetto	Gross mass of the package position ➔ The format changes to „16.6“ digits.
BruttoGewicht	Net mass of the package position ➔ The format changes to „16.3“ digits.

2.1.1.3 General rule description

Either the MRN or the LRN must be indicated, depending on whether the single-stage or two-stage customs export procedure is involved.

The indication/identification of a declarant or his representative must always and only be made for the single-stage customs export procedure.

2.1.1.4 Detailed rule description

Rule 1

If the **two-stage customs export procedure** is used, enter the MRN.

If	LRN	= <i>NULL</i>
must	MRN	= <i>FILLED</i>

Rule 2

If the **single-stage customs export procedure** is used, enter the LRN.

If	LRN	= <i>FILLED</i>
must	MRN	= <i>NULL</i>

Rule 3

For the **single-stage customs export procedure**, the declarant (Anmelder) or his representative (Vertreter) must be indicated.

If	LRN	= <i>FILLED</i>
must	AnmelderIdentifikationsNr	= <i>FILLED</i>
and	AnmelderNiederlassungsNr	= <i>FILLED</i>
or		
must	VertreterIdentifikationsNr	= <i>FILLED</i>
and	VertreterNiederlassungsNr	= <i>FILLED</i>

Rule 4

For the **single-stage customs export procedure**, only the declarant (Anmelder) or his representative (Vertreter) may be indicated.

If	LRN	= <i>FILLED</i>
and	AnmelderIdentifikationsNr	= <i>FILLED</i>
and	AnmelderNiederlassungsNr	= <i>FILLED</i>
must	VertreterIdentifikationsNr	= <i>NULL</i>
and	VertreterNiederlassungsNr	= <i>NULL</i>
or		
if	LRN	= <i>FILLED</i>
and	AnmelderIdentifikationsNr	= <i>NULL</i>
and	AnmelderNiederlassungsNr	= <i>NULL</i>
must	VertreterIdentifikationsNr	= <i>FILLED</i>
and	VertreterNiederlassungsNr	= <i>FILLED</i>

Rule 5

If all digits before the decimal point (pre-decimal places) have been entered for the gross mass (Rohmasse), no digits after the decimal point (decimal places) may be entered. If, however, not all pre-decimal places have been entered, decimal places may be entered. However, only as many as possible according to the dependency of the lower number of pre-decimal places.

if	BruttoGewicht	= FILLED
and	BruttoGewicht ("16" pre-decimal places)	= FILLED
must	BruttoGewicht (decimal-places)	= NULL
or		
if	BruttoGewicht	= FILLED
and	BruttoGewicht ("15" pre-decimal places)	= FILLED
and	BruttoGewicht (decimal-places)	= FILLED
must	BruttoGewicht (decimal-places)	= FILLED (max. 1 decimal-places)
or		
if	BruttoGewicht	= FILLED
and	BruttoGewicht ("14" pre-decimal places)	= FILLED
and	BruttoGewicht (decimal-places)	= FILLED
must	BruttoGewicht (decimal-places)	= FILLED (max. 2 decimal-places)
or		
if	BruttoGewicht	= FILLED
and	BruttoGewicht ("13" pre-decimal places)	= FILLED
and	BruttoGewicht (decimal-places)	= FILLED
must	BruttoGewicht (decimal-places)	= FILLED (max. 3 decimal-places)

Rule 6

If all digits before the decimal point (pre-decimal places) have been entered for the net mass (Eigenmasse), no digits after the decimal point (decimal places) may be entered. If, however, not all pre-decimal places have been entered, decimal places may be entered. However, only as many decimal places as possible according to the dependency of the lower number of pre-decimal places.

If	RestgewichtNetto	= FILLED
and	RestgewichtNetto ("16" pre-decimal places)	= FILLED
must	RestgewichtNetto (decimal-places)	= LEER
or		
If	RestgewichtNetto	= FILLED
and	RestgewichtNetto ("15" pre-decimal places)	= FILLED
and	RestgewichtNetto (decimal-places)	= FILLED
must	RestgewichtNetto (decimal-places)	= FILLED (max. 1 decimal-places)
or		
If	RestgewichtNetto	= FILLED
and	RestgewichtNetto ("14" pre-decimal places)	= FILLED
and	RestgewichtNetto (decimal-places)	= FILLED
must	RestgewichtNetto (decimal-places)	= FILLED (max. 2 decimal-places)

or
If RestgewichtNetto = *FILLED*
and RestgewichtNetto ("13" pre-decimal places) = *FILLED*
and RestgewichtNetto (decimal-places) = *FILLED*
must RestgewichtNetto (decimal-places) = *FILLED (max. 3 decimal-places)*

or
If RestgewichtNetto = *FILLED*
and RestgewichtNetto ("12" pre-decimal places) = *FILLED*
and RestgewichtNetto (decimal-places) = *FILLED*
must RestgewichtNetto (decimal-places) = *FILLED (max. 4 decimal-places)*

or
If RestgewichtNetto = *FILLED*
and RestgewichtNetto ("11" pre-decimal places) = *FILLED*
and RestgewichtNetto (decimal-places) = *FILLED*
must RestgewichtNetto (decimal-places) = *FILLED (max. 5 decimal-places)*

or
If RestgewichtNetto = *FILLED*
and RestgewichtNetto ("10" pre-decimal places) = *FILLED*
and RestgewichtNetto (decimal-places) = *FILLED*
must RestgewichtNetto (decimal-places) = *FILLED (max. 6 decimal-places)*

2.1.2 Address

Various address data, customer codes, offer number, etc. can be entered here.

2.1.2.1 Element structure – HafenauftragAdresseType

```
<xs:complexType name="HafenauftragAdresseType">
  <xs:annotation>
    <xs:documentation>defining addresses like address of Containercarrier</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    ...
    <xs:element minOccurs="0" name="Offerte">
      <xs:annotation>
        <xs:documentation>Offer</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="10"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element minOccurs="0" name="Referenzen" type="HafenauftragReferenzenType"/>
  </xs:sequence>
</xs:complexType>
```

2.1.2.2 Elemente – HafenauftragAdressType

Elementname	Beschreibung
Offerte	Billing modalities between a terminal operator and the client (alternative client and/or alternative invoice recipient) ➔ The format changes to „10“ digits.

2.1.2.3 General rule description

The offer number (Offerte) given by the client and/or alternative invoice recipient is not checked.

Please note that the format change for the element offer number (Offertenummer) (format change from „4“ to „10“ digits) will go live on **09.07.2023** already. The content in the fields can still be transmitted with 4 digits as before. As of **01.01.2024**, it will be mandatory to transmit the content of the element with 10 digits.

2.1.2.4 detailed rule description

No additions/changes

2.1.3 Contact person

Contains data like name, telephone number, e-mail, etc. for potential enquiries.

2.1.3.1 Element structure – KontaktpersonType

```

<xs:complexType name="KontaktpersonType">
  <xs:sequence>
    <xs:element minOccurs="0" name="Name">
      <xs:annotation>
        <xs:documentation>name</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="70" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element minOccurs="0" name="Telefon">
      <xs:annotation>
        <xs:documentation>telephon number</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="35" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    ...
  </xs:sequence>
</xs:complexType>

```

2.1.3.2 Elemente – KontaktpersonType

Elementname	Beschreibung
Name	Name of the clerk ➔ The format changes to „70“ digits.
Telefon	Telephone number of the clerk ➔ The format changes to „35“ digits.

2.1.3.3 General rule description

No additions/changes

2.1.3.4 Detailed rule description

No additions/changes

2.1.4 Customer code

Can contain data like e.g. dbh/terminal customer code

2.1.4.1 Element structre – KundenummerType

```
<xs:complexType name="KundenummerType">
  <xs:sequence>
  ...
    <xs:element minOccurs="0" name="Umschlag">
      <xs:annotation>
        <xs:documentation>warehouse / terminal</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="10"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  ...
  </xs:sequence>
</xs:complexType>
```

2.1.4.2 Elemente – KundenummerType

Elementname	Beschreibung
Umschlag	Dbh/terminal customer code (client and/or alternative client and/or alternative invoice recipient) ➔ the format changes to „10“ digits.

2.1.4.3 General rule description

The dbh/terminal customer code (dbh-/BLG-Umschlagkundenummer) specified in the order by the client, alternative client and alternative invoice recipient are checked in the BHT. These must comply with the regulations for the dbh or terminal customer code (dbh- or BLG-Umschlagkundenummer).

Attention: A dbh customer code (dbh-Umschlagkundenummer) is assigned by dbh when a **new** BHT customer is set up, insofar as no terminal customer code (BLG-Umschlagkundenummer) is available at this point in time.

Please note that the format change for the fields of the dbh/terminal customer code (dbh-/BLG-Umschlagkundenummer) (from „4“ to „10“ digits) will go live on **09.07.2023** already. The content in the fields can still be transmitted with 4 digits as before. As of 01.01.2024, it will be mandatory to transmit the content of the fields with 10 digits.

Example dbh/terminal customer code (dbh-/BLG-Umschlagkundenummer):

Until 01.01.2024 – „ 1234“ (or already „0000001234“)

From 01.01.2024 – mandatory „0000001234“

2.1.4.4 Detailed rule description

Rule 1

The dbh/terminal customer code (dbh-/BLG-Umschlagkundennummer) must either be a customer code (Umschlagkundennummer) assigned by **BLG** or by **dbh**. Note: This rule also applies for the customer code (Umschlagkundennummer) of the alternative client (abw. Auftraggeber) and for the alternative invoice recipient (abw. Rechnungsempfänger).

If	Umschlag	=	FILLED
must	Umschlag	=	"BLG-Umschlagkundennummer"
or	Umschlag	=	"dbh-Umschlagkundennummer"

Rule 2

If the customer code (Umschlagkundennummer) is a dbh customer Code (dbh-Umschlagkundennummer) assigned by dbh, the order **may not be placed** with a BLG terminal code (Schuppen-Code).

If	Umschlag	=	FILLED
and	Umschlag	not =	"BLG-Kundennummer"
must	SchuppenCode	not =	"BLG-Schuppen"