bso

Specification

OEX
OFML Business Data Exchange
(OFML Part VII)

GLOBAL
Superior Specification of OEX Document Types

Version 2.3.1
English

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Contents

1 Introduction

Global (overall document types) specification for an electronic transmission of OEX documents.
Data format: XML (Extensible Markup Language)
Data definition: XML Schema (XS)

XML Version and Code Page
```
<?xml version="1.0" encoding="UTF-8"?>
```
UTF-8 (Unicode Transformation Format) is used as standard code page.

Both partners can alternatively agree on following code pages for their data transmission:
ISO-8859-1 (International Standardization Organization) – Latin-1: i.a. West-European code page
ISO-8859-2 (International Standardization Organization) – Latin-2: i.a. Central-European code page

These statements are placed at the beginning of an XML document.

XML Schema (XS) Integration
The structure and data types of the XML-file are defined and verified by an XML schema.
There is one schema per document type. The name of a schema is composed of the prefix `oex`, the document type (e.g. `orders` for an order), the version number and the file extension `xsd`. Furthermore, the general schema (`global`) is integrated in any document-type related schema.

```
oex-<DocumentType>_<Major>.<Minor>.<Build>.xsd     document-type related schema
oex-global_<Major>.<Minor>.<Build>.xsd             global schema
```

The integration of the document-type related schema is effected by attributes defined for XML schemes within the frame element `oexDocFrame`:
```
<oexDocFrame aMajor="2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="oex-<DocumentType>_<Major>.<Minor>.<Build>.xsd">
```

1.1 Overview of OEX Specifications

The OEX-GLOBAL specification is the leading document with regard to the valid versions of document-type related specification.

Document type	Description	Name of specification	XML Schema	Version
GLOBAL	global	oex-global_2.3.0_en.pdf	oex-global_2.3.x.xsd	2.3
REQOTE	Request	oex-reqote_2.3.x_en.pdf	oex-reqote_2.3.x.xsd	2.3
QUOTES	Quotation	oex-quotes_2.3.x_en.pdf	oex-quotes_2.3.x.xsd	2.3
ORDERS	Order	oex-orders_2.3.x_en.pdf	oex-orders_2.3.x.xsd	2.3
ORDRSP	Order confirmation	oex-ordrsp_2.3.x_en.pdf	oex-ordrsp_2.3.x.xsd	2.3
ORDCHG	Order change	oex-ordchg_2.3.x_en.pdf	oex-ordchg_2.3.x.xsd	2.3
DESADV	Despatch Advice	oex-desadv_2.3.x_en.pdf	oex-desadv_2.3.x.xsd	2.3
INVOIC	Invoice	oex-invoic_2.3.x_en.pdf	oex-invoic_2.3.x.xsd	2.3

The „x" stands for the respectively highest build version number of the corresponding specification or XML schema.
„_en" represents the English version of the specification.

1.2   Version Rules

The version number of all specifications, XML schemas and model files consists of 3 components and is composed as follows:

Major   **2**.3.17
Minor   2.**3**.17
Build   2.3.**17**

All OEX specifications have **major and minor version numbers** in **common** where the specifications with the respective highest build version number apply.
If, for instance, the specification ORDERS (order) is used in version **2.3**.2 the specification GLOBAL **2.3**.17 has to be applied (see also sample constellation below).

With the build number, varying change states of the specifications are controlled, which do not always immediately concern all other specifications. A change of GLOBAL, which has effects on the document-type related specifications but not on the document-specific structures or derived elements, is handled within a new build version/number. The version number of the document-type related specification remains unaffected.
Vice versa too, a change of a document-type related specification does not influence the version number of GLOBAL, if it has no effect on the defined elements and structures in GLOBAL.

As soon as a change of GLOBAL influences elements and structures of at least one existing document type **all** specifications have to be raised to the next higher minor version number. The build version number then is reset to zero („0") for all document types.

Furthermore, changes can lead to the next major version number depending on their extent. Then, the minor and build version numbers will be reset to zero („0") for all specifications.

As well, the XML schemas (XSD) and the sample files (XML) have major and minor version numbers in common, still in order to ensure an unambiguous mapping to the version of the corresponding document type. Changes in these files require a new build version/number.
Within the XML file, the version of the corresponding document type and the associated XML schema the XML file refers to, are indicated. Within the XSD file, the general XML schema it refers to, is indicated. Here too, the respectively highest build version numbers apply.

A sample constellation of the versions for ORDERS (order):

Specification OEX-ORDERS	**2.3.2**	oex-orders_2.3.2_en.pdf
Specification OEX-GLOBAL	**2.3.17**	oex-global_2.3.17_en.pdf
Sample file ORDERS	**2.3.5**	oex-orders-sample_2.3.5.xml
XML scheme ORDERS	**2.3.4**	oex-orders_2.3.4.xsd
XML scheme GLOBAL	**2.3.8**	oex-global_2.3.8.xsd

1.3   Legend

Explanation of specific columns used in the tables in chapter 2 "Definitions".

Column	Description	Values	Meaning
`Rec`	Recurrence	**1**	Element appears exactly once
		#+	Element has to appear minimum **#** times or more. „**#**" is a placeholder for any number. (Example: 1+ = „must" 1 time, „can" several times)
		#*	Element can appear one or several times, up to maximum **#** times. „**#**" is a placeholder for any number. (Ex.: 3* = 1 to 3 times)
		*	Element appears 1 to several times
`M. Mandat.`	Mandatory element	**<empty>**	Element may be available. If it is available it must contain a value.
		X	Element must be available and contain a value.
		#	Element may be available. If it is available it must contain a value. The placeholder **#** stands for a consecutive number, starting with 1 for subelements within a frame element which are mutually dependent and in general have to be indicated in combination. (e.g. qantity and quantity unit)
`Len`	Length of data domain (inclusive decimals and separator). Signs do not contribute to the length of numeric values. (`NUM`)	**1 – n**	From 1 to "infinite"
		*	Any (common in relation to data domain)
		<empty>	For certain data types
`Dec`	Decimals	**1 – n**	From 1 to "infinite"
		<empty>	No decimals
`Sep`	Decimal separator	**.**	Usually decimal point
		<empty>	No deciamal separator
`Restrict.`	Restrictions for value tables		See data domains

Others:

OCD   OFML Commercial Data

2 Definitions

2.1 Types of Elements

Used elements are typed, where the basic XML elements are related to basic element types and the OEX elements based on it are related to OEX element types.
Every type is related to a data domain (abbr.: domain), which describes a type exactly.

Naming: Starting with a capital letter.

2.1.1 Basic Element Types

Basic element types form the arrangement of the XML-elements and are the base for OEX-element types.

2.1.1.1 `Frame`: Frame element

Basic element type	Description/Explanation
`Frame`	Frame element, can contain attributes and subelements. Basic domain: `_Frame` Naming of these elements: Any three-digit prefix **abc** E.g.: **<oexFile aDocCount="5">**[subelements]**</oexFile>**

Subelements	Description
Frame	Frame element
Value	Value element
Empty	Attribute (empty) element

2.1.1.2 `Value`: Value element

Basic element type	Description/Explanation
`Value`	Value element, can contain attributes. Basic domain: `_Value` Naming of these elements: Prefix **v** (value) E.g.: **<vDocumentType aMajor="2">ORDERS</vDocumentType>**

2.1.1.3 `Empty`: Attribute element (empty element)

Basic element type	Description/Explanation
`Empty`	Empty element, contains only attributes Basic domain: `_Attribute` Naming of these elements: Prefix **e** (empty) E.g.: **<eAppVersion aMajor="2" aMinor="0"/>**

2.1.2 OEX Frame Types (`Frame`)

All frame elements are based on the basic type `Frame`.
Note: Elements, which are in pointed brackets, have a variable naming (e.g. <Document>) and can contain variable subelements <*>. They are defined refering to document types.

2.1.2.1 `DocFrame`: OEX document frame

OEX-Element type	Domain				Description
DocFrame	_DocFrame				OEX document frame

Subelement	Type	Rec	M.		Description
<Applic>	Applic	1	X		Application which has created the document
<File>	File	1	X		File of documents

`DocFrame` is the main frame of every OEX-XML-document.
For example, the XML-schema (XSD) consistant with this document type is integrated by the attributes of `DocFrame`.

Example:

```
<oexDocFrame aMajor="2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="oex-orders_2.1.0.xsd">
     <oexApplication>
          <vAppName>MyOrderEntryApplication</vAppName>
          <eAppVersion aMajor="7" aMinor="3"/>
     </oexApplication>
     <oexFile aDocumentCount="1">
          <vDocumentType aMajor="2" aMinor="1" aBuild="0">ORDERS</vDocumentType>
          <... 1 Document ...>
     </oexFile>
</oexDocFrame>
```

2.1.2.2 `Applic`: Applikation, die das OEX-Dokument erstellt hat

OEX-Element type	Domain				Description
Applic	_Frame				Application which has created the document

Subelement	Type	Rec	M.		Description
<AppName>	Value	1	X		Name of application
<AppVersion>	Version	1	X		Version of application

`Applic` conduces to the identification of the application which creates the OEX-document.

Example:

```
<oexApplication>
          <vAppName>MyOrderEntryApplication</vAppName>
     <eAppVersion aMajor="7" aMinor="3"/>
</oexApplication>
```

2.1.2.3 `File`: **File of documents**

OEX-Element type	Domain				Description
`File`	`_File`				**File of documents**

Subelement	Type	Rec	M.		Description
`<DocumentType>`	`DocumentType`	1	X		**Type of document**
`<Document>`	`Document`	1+	X		**Single document**

A document file can only contain several documents (`Document`) of one document type and version. Therefore, a mixture of documents of different document types like e.g. `ORDERS` (order) and `ORDCHG` (order change) is not permissible.

Example:
File of documents including 4 documents

```
<oexFile aDocumentCount="4">
      <vDocumentType aMajor="2" aMinor="1" aBuild="0">ORDERS</vDocumentType>
      <oexDocument aDocNo="1" aItemCount="5">
            <... Content of document 1 (document-type related) ...>
      </oexDocument>
      <oexDocument aDocNo="2" aItemCount="2">
            <... Content of document 2 (document-type related) ...>
      </oexDocument>
      <oexDocument aDocNo="3" aItemCount="1">
            <... Content of document 3 (document-type related) ...>
      </oexDocument>
      <oexDocument aDocNo="4" aItemCount="3">
            <... Content of document 4 (document-type related) ...>
      </oexDocument>
</oexFile>
```

2.1.2.4 `Document`: **Single document**

OEX-Element type	Domain				Description
`Document`	`_Document`				**Single document**

Subelement	Type	Rec	M.		Description
`<*>`	`*`	`*`			**document-type related**

Example:
2 documents each of them containing Document Header and a different amount of Document Items

```
<oexDocument aDocNo="1" aItemCount="3">
      <docHeader aAction="C">
            <... Content of Document Header (document-type related) ...>
      </docHeader>
      <docItem aItemNo="1" aAction="C">
            <... Content of Document Item (document-type related) ...>
      </docItem>
      <docItem aItemNo="2" aAction="C">
            <... Content of Document Item (document-type related) ...>
      </docItem>
      <docItem aItemNo="3" aAction="C">
            <... Content of Document Item (document-type related) ...>
      </docItem>
</oexDocument>
<oexDocument aDocNo="2" aItemCount="1">
      <docHeader aAction="C">
            <... Content of Document Header (document-type related) ...>
      </docHeader>
      <docItem aItemNo="1" aAction="C">
            <... Content of Document Item (document-type related) ...>
</oexDocument>
```

2.1.2.5 `Header`: Document header

OEX-Element type	Domain				Description
`Header`	`_Header`				Document header

Subelement	Type	Rec	M.		Description
`<*>`	`*`	`*`			document-type related

Example:

```
<docHeader aAction="C">
      <... Content of Document Header (document-type related) ...>
</docHeader>
```

2.1.2.6 `Item`: Document item

OEX-Element type	Domain				Description
`Item`	`_Item`				Document item

Subelement	Type	Rec	M.		Description
`<*>`	`*`	`*`			document-type related

Example:
2 Document items

```
<docItem aItemNo="1" aAction="C">
      <... Content of Document Item (document-type related) ...>
</docItem>
<docItem aItemNo="2" aAction="C">
      <... Content of Document Item (document-type related) ...>
</docItem>
```

2.1.2.7 `DateTime`: Date and time details

OEX-Element type	Domain				Description
`DateTime`	`_Frame`				Date and time details

Subelement	Type	Rec	M.		Description
`<DateTimeType>`	`DateTimeType`	1	X		Type of date/time
`<TimeZone>`	`TimeZone`	1	X		Time zone
`<DateValue>`	`Date`	1	X		Date
`<TimeValue>`	`Time`	1			Time

Date and time are indicated corresponding to the respective time zone (time lag).

Examples:

Document date on August 9th, 2006 at 2:35 p.m. Central European summer time (CEST) in the document header:

```
<hdrDateTime>
      <vDateTimeType>DOC</vDateTimeType>
      <vTimeZone>+0200</vTimeZone>
      <vDateValue aDateFormat="D">20060809</vDateValue>
      <vTimeValue>143500</vTimeValue>
</hdrDateTime>
```

Document date on December 22nd, 2006 at 07:43 a.m. Western European Time (WET) in the document header:

```xml
<hdrDateTime>
      <vDateTimeType>DOC</vDateTimeType>
      <vTimeZone>+0000</vTimeZone>
      <vDateValue aDateFormat="D">20061222</vDateValue>
      <vTimeValue>074300</vTimeValue>
</hdrDateTime>
```

Requested delivery date week 8/2006 Central European Time (CET) in the document header:

```xml
<hdrDateTime>
      <vDateTimeType>CRD</vDateTimeType>
      <vTimeZone>+0100</vTimeZone>
      <vDateValue aDateFormat="W">200608</vDateValue>
</hdrDateTime>
```

Order date on October 28th, 2006 at 11:27 a.m. New York winter time (Eastern Standard Time EST) in the document header:

```xml
<hdrDateTime>
      <vDateTimeType>ORD</vDateTimeType>
      <vTimeZone>-0500</vTimeZone>
      <vDateValue aDateFormat="D">20061028</vDateValue>
      <vTimeValue>112700</vTimeValue>
</hdrDateTime>
```

Determination of the requested delivery date with specification of 10 calendar days at order entry:

```xml
<hdrDateTime>
      <vDateTimeType>DLD</vDateTimeType>
      <vTimeZone>+0200</vTimeZone>
      <vDateValue aDateFormat="C" aDateCalcBase="*DIO" aDateCalcMode="+">0010</vDateValue>
</hdrDateTime>
```

At order entry on July 1st, 2009, the requested delivery date would be **July 11th, 2009**.

| Juli 2009 | | | | | | | |
KW	Mo	Di	Mi	Do	Fr	Sa	So
27			1	2	3	4	5
28	6	7	8	9	10	11	12
29	13	14	15	16	17	18	19
30	20	21	22	23	24	25	26
31	27	28	29	30	31		

Determination of the delivery date with specification of 14 calendar days after the date of order confirmation:

```xml
<hdrDateTime>
      <vDateTimeType>COD</vDateTimeType>
      <vTimeZone>+0200</vTimeZone>
      <vDateValue aDateFormat="D">20090701</vDateValue>
</hdrDateTime>
<hdrDateTime>
      <vDateTimeType>CRD</vDateTimeType>
      <vTimeZone>+0200</vTimeZone>
      <vDateValue aDateFormat="C" aDateCalcBase="COD" aDateCalcMode="+">0014</vDateValue>
</hdrDateTime>
```

Calculation basis is the previous frame element with the order confirmation date 01.07.2009. The delivery date would therefore be **July 15th, 2009**.

KW	Mo	Di	Mi	Do	Fr	Sa	So
Juli 2009							
27			1	2	3	4	5
28	6	7	8	9	10	11	12
29	13	14	15	16	17	18	19
30	20	21	22	23	24	25	26
31	27	28	29	30	31		

2.1.2.8 `OrgData`: Organizational data

OEX-Element type	Domain				Description
OrgData	_Frame				**Organizational data**

Subelement	Type	Rec	M.		Description
`<OrgDataType>`	OrgDataType	1	X		**Type of organizational data**
`<OrgDataValue>`	Value	1	X		**Value of organizational data**

For possible organizational data for the data exchange, see domain `_OrgDataType`.

Examples:

Indication of a commission in the document header.

```
<hdrOrgData>
      <vOrgDataType>COM</vOrgDataType>
      <vOrgDataValue>Commission Smith</vOrgDataValue>
</hdrOrgData>
```

Indication of a project number in the document header

```
<hdrOrgData>
      <vOrgDataType>PJN</vOrgDataType>
      <vOrgDataValue>65789198789</vOrgDataValue>
</hdrOrgData>
```

Indication of an edited item number in the document item

```
<itmOrgData>
      <vOrgDataType>POS</vOrgDataType>
      <vOrgDataValue>100.A.10-1</vOrgDataValue>
</itmOrgData>
```

2.1.2.9 `Address`: Addresses

OEX-Element type	Domain				Description
Address	_Frame				**Addresses**

Subelement	Type	Rec	M.		Description
`<AddressType>`	AddressType	1	X		**Type of address**
`<AddressNumber>`	Value	1			**Address number**
`<AddressID>`	AddressID	1			**ILN of address**
`<Title>`	Value	1			**Title**
`<Name1>`	Name1	1	X		**Name 1**
`<Name2>`	Name2	1			**Name 2**
`<Name3>`	Name3	1			**Name 3**

`<Name4>`	`Name4`	1				**Name 4**
`<Street>`	`Street`	1	X			**Street**
`<StreetNo>`	`Value`	1				**Street number**
`<Street2>`	`Street2`	1				**Street 2**
`<CountryCode>`	`CountryCode`	1	X			**Country code**
`<PostalCode>`	`PostalCode`	1	X			**Postal code**
`<Location>`	`Location`	1	X			**Location (city)**
`<District>`	`District`	1				**District**
`<CountyCode>`	`CountyCode`	1				**County/district/state**
`<PostalCodePOBox>`	`PostalCodePOB`	1				**Postal code of P.O. Box**
`<POBox>`	`Value`	1				**P.O. Box (post-office box)**
`<TaxCode>`	`Value`	1				**Tax number at tax office/authorities**
`<TaxCodeEU>`	`Value`	1				**Sales tax identification number (EU)**
`<TaxCodeUSA>`	`Value`	1				**Sales tax code USA / Jurisdiction**
`<Com>`	`Com`	*				**Communication**
`<Contact>`	`Contact`	*				**Contacts**

Example:
Address of sold-to party

```
<hdrAddress>
      <vAddressType>SO</vAddressType>
      <vAddressNumber>2222222</vAddressNumber>
      <vName1>Harrison Office Inc.</vName1>
      <vName2>The office experts</vName2>
      <vStreet>Central Road</vStreet>
      <vStreetNo>11</vStreetNo>
      <vCountryCode>US</vCountryCode>
      <vPostalCode>10001</vPostalCode>
      <vLocation>New York</vLocation>
      <vCountyCode>NY</vCountyCode>
      <vPostalCodePOBox>456789</vPostalCodePOBox>
      <vPOBox>131343654</vPOBox>
      <vTaxCodeUS>3306120100</vTaxCodeUS>
      <hdrCom>
            <vComType aScopeInfo="B">TEL</vComType>
            <vComValue>+1-89-123456</vComValue>
      </hdrCom>
      <hdrCom>
            <vComType aScopeInfo="B">FAX</vComType>
            <vComValue>+1-89-123457</vComValue>
      </hdrCom>
      <hdrCom>
            <vComType aScopeInfo="B">WWW</vComType>
            <vComValue>http://www.harrison-office.com</vComValue>
      </hdrCom>
      <hdrContact>
            <vContactType>SC</vContactType>
            <vContactNumber>333333</vContactNumber>
            <vTitle>Mr.</vTitle>
            <vFirstName>John</vFirstName>
            <vLastName>Miller</vLastName>
            <hdrCom>
                  <vComType aScopeInfo="B">TEL</vComType>
                  <vComValue>+1-89-123456</vComValue>
            </hdrCom>
            <hdrCom>
                  <vComType aScopeInfo="B">EMA</vComType>
                  <vComValue>John.Miller@harrison-office.com</vComValue>
            </hdrCom>
      </hdrContact>
</hdrAddress>
```

2.1.2.10 `Com`: Communication

OEX-Element type	Domain				Description
Com	_Frame				**Communication**

Subelement	Type	Rec	M.		Description
\<ComType\>	ComType	1	X		**Type of communication**
\<ComValue\>	Value	1	X		**Value of communication**

Example:

Business phone number within the document header

```
<hdrCom>
      <vComType aScopeInfo="B">TEL</vComType>
      <vComValue>+1-1234-5678910</vComValue>
</hdrCom>
```

2.1.2.11 `Contact`: Contacts

OEX-Element type	Domain				Description
Contact	_Frame				**Contacts**

Subelement	Type	Rec	M.		Description
\<ContactType\>	ContactType	1	X		**Type of contact**
\<ContactNumber\>	Value	1			**Contact number**
\<Title\>	Value	1			**Title**
\<FirstName\>	FirstName	1			**First name**
\<LastName\>	LastName	1	X		**Last name**
\<Com\>	Com	*			**Communication**

By means of the „Type of contact", various persons can be transferred, who are directly (e.g. sales support) or organizationally (e.g. sales representative) involved in a business case.
The number of the contact can be used as identifier. Then, it must be known by both business partners.

Example:

Contact sales representative with business telephone number and e-mail address in the document header

```
<hdrContact>
      <vContactType>SC</vContactType>
      <vContactNumber>333333</vContactNumber>
      <vTitle>Mr.</vTitle>
      <vFirstName>John</vFirstName>
      <vLastName>Miller</vLastName>
      <hdrCom>
            <vComType aScopeInfo="B">TEL</vComType>
            <vComValue>+1-89-123456</vComValue>
      </hdrCom>
      <hdrCom>
            <vComType aScopeInfo="B">EMA</vComType>
            <vComValue>John.Miller@harrison-office.com</vComValue>
      </hdrCom>
</hdrContact>
```

2.1.2.12 `Text`: Texts

OEX-Element type	Domain				Description
Text	_Frame				**Texts**

Subelement	Type	Rec	M.		Description
\<TextType\>	TextType	1	X		**Type of text**
\<TextLanguage\>	TextLanguage	1	X		**Language of text**
\<TextContent\>	TextContent	1+	X		**Content of text**

The text structure is according to OCD as of version 4.

Texts are put unformatted in one or more text lines. Control characters for line breaks, tabulators, character formattings etc. are not permitted.

The respective application must ensure that the text is written according to the specification when compiling the XML text elements.

If several lines are permitted for one text type the element `TextContent` in the frame type `Text` is accordingly repeated and thereby, the attribute `aTextLineNo` is incremented for the line number.

For every new text type or every new language within a text type the line numbering restarts with 1 (see Type `TextContent` attribute `aTextLineNo`)

Note: A new language can already differ from an existing language by the attribute `aLocale` (locale). See example with long text in one language but two locales.

When reading the lines from the XML text elements into a processing application, the attribute „line format" controls how a text is imported: either as single lines or as a continuous text (see type `TextContent` attribute `aLineFormat`).

Example: article long text (`ARTL`) for representation with automatic word-wrapping:
```
<itmText>
      <vTextType>ARTL</vTextType>
      <vTextLanguage>en</vTextLanguage>
      <vTextContent aTextLineNo="1" aLineFormat="\">Office desk XYZ,</vTextContent>
      <vTextContent aTextLineNo="2" aLineFormat="~">height-adjustable, base chromed.</vTextContent>
</itmText>
```

Expected representation in a text editor of an order entry application:
Office desk XYZ, height-adjustable, base chromed.

Note: The application may insert a line break depending on the length of the field for the text content.

Example: long text (`ARTL`) in 2 languages with required word wrap and a short text (`ARTS`):
```
<itmText>
      <vTextType>ARTL</vTextType>
      <vTextLanguage>de</vTextLanguage>
      <vTextContent aTextLineNo="1" aLineFormat="\">Büroschreibtisch XYZ,</vTextContent>
      <vTextContent aTextLineNo="2" aLineFormat="\">höhenverstellbar, Untergestell verchromt.</vTextContent>
</itmText>
<itmText>
      <vTextType>ARTL</vTextType>
      <vTextLanguage>en</vTextLanguage>
      <vTextContent aTextLineNo="1" aLineFormat="\">Office desk XYZ,</vTextContent>
      <vTextContent aTextLineNo="2" aLineFormat="\">height-adjustable, base chromed.</vTextContent>
</itmText>
<itmText>
      <vTextType>ARTS</vTextType>
      <vTextLanguage>en</vTextLanguage>
      <vTextContent aTextLineNo="1" aLineFormat="\"> Office desk XYZ</vTextContent>
</itmText>
```

Expected representation in a text editor of an order entry application:
Office desk XYZ,
height-adjustable, base chromed.

Note: The application may insert an additional line break depending on the length of the field for the text content.

Example: long text (`ARTL`) in one language, but 2 locales (= 2 laguage versions):
American English (enUS) and British English (enGB)
```
<itmText>
      <vTextType>ARTL</vTextType>
      <vTextLanguage aLocale="US">en</vTextLanguage>
      <vTextContent aTextLineNo="1" aLineFormat="\">Tension Strip color black</vTextContent>
</itmText>
<itmText>
      <vTextType>ARTL</vTextType>
      <vTextLanguage aLocale="GB">en</vTextLanguage>
      <vTextContent aTextLineNo="1" aLineFormat="\">Closing Ledge colour black</vTextContent>
</itmText>
```

Note: The number of text lines of a text type depends on the respective language.

2.1.2.13 `Reference`: References

OEX-Element type	Domain			Description
`Reference`	`_Frame`			**References**

Subelement	Type	Rec	M.		Description
`<ReferenceType>`	`ReferenceType`	1	X		**Type of reference**
`<ReferenceValue>`	`Value`	1	X		**Value of reference**
`<ReferenceDesc>`	`Value`	1	X		**Description of reference** *(language of document)*

References to links, attachments or other documents. As a value of the reference, a complete URL (link) or a complete file name (attachment) is indicated corresponding to the reference type.
A description is mandatory, because it is used by applications to display links or drop-down lists.

Examples:

Link to show the order status in the document header:

```
<hdrReference>
      <vReferenceType aMIMEType="text/html">LNK</vReferenceType>
      <vReferenceValue>http://www.harrison-office.com/orderstatus.html?p=1213131</vReferenceValue>
      <vReferenceDesc>Order status</vReferenceDesc>
</hdrReference>
```

Embedded product image:

```
<hdrReference>
      <vReferenceType aMIMEType="image/jpeg">EDS</vReferenceType>
      <vReferenceValue>/9j/4AAQSkZJRgABAgAAZABkAAD/7AARRHVja3kAAQAEAAAAKQAA/+4ADkFkb2JlAGTAAAAAAf/bA
IQADADAgICAkIDAkJDBELCQsRFA8MDA8UFxISFBISFxYRFBMTFBEWFhobHRsaFiMjJiYjIzIyMjIyODg4ODg4OAEMCwsMDgwPD
Q0PFA4ODhQUDxAQDxQcExMeMUExMcIxoWFhYWGiMgIh0dHSIgJiYjIyYmMBAuMDA4ODg4ODg4ODg4/8AAEQgAeAClAwEiAAIRAQMRA
f/EAI4AAQABBQEBAAAAAAAAAAAAAAAAAAgMEBQYHCAEBAQEBAAAAAAAAAAAAAAAAAECAxAAAQMCAwMHBgsGBwEAAAAAQACAxEEI
RIFMUEGUWFxgSIyE5GhwVIjB7HRQmJygpKissIzO3OjFEQV8OHSU4PD4xYRAQEBAAMBAQEAAAAAAAAAAAAABEVECEjEhQf/aAAwDA
QACEQMRAD8A9URFRFKAiIgIiICIiAiIghSoUoCIiAiIQanivVTpHDl/qDTSWKIiEjb4r/Zx/ecF4llEFoyPeTQnlEYyV63ZivQ/e3qOS1
0/S2HGaV11KPmW7ey08znvHkXnV32XNirXw2hnWBifKtdfiVhzz5Oy3vHzBYhNcVU8lzyTyqlS0FKhEEoiIPpxERRRERAREQEREB
ERBBGKlEQFClWL27isrOe8mwhto3yyH5rGl58wQeRccX41HjO5oaw2AjtW02ezBuJfvnKuWuXlxe7ealZEdxLO24vpzWe6e6R55X
zuMjvMAsSTtAjlW/wCMsJERZUREQSiIg+nERFFEBERAREQERUvkZG0ue4NaN5NAgqRau64i0+3qAXSkeqKDyuotTc8bhlfDttm
9z/AImrU6duE2OpXG+9TVf5Lhl1kx1J9TkbABv8MduR3RQBp6Vjze8O7ZXLbR0+sfSuJ4x1254g1mFswxlozwxGyuUOJzSnEnGt
G/VTzZ9NjUOo2BjBv7RHTg37oCxyr8rszid27o3K0QtIw5WZXcx2KhZj4w4UKxnxPZuqOUULNiqERFBKKEQfTqLRahxtw3YPdC66F
xcN2w2zTM7r8OrR11auT3iNc6lppc8jfWmkji8WMbde1+Q2OxULincd6ue7pppc8jfWmkji8WMhSde1+Q2OxULincd6ue7pppc8jfWmkji8
jrUadrSGu+hdtPwxhX4+OZf2uj3IHLG+KT87U8duD1HVIubHHFj+0sL+PnMId+CRyP410V4oXzw8z7aYecMKeO3FNjeXF02JpAxc
tFfXEkxJc4lWH8SaDJ/XMH0mSt/FGsd+s617ZfRHozn8i31mM2rM0WZa+e0qs2bV9KY0v8AFe9oxJZFJT7T2sb51zGrcbVJh0qIN
PyrmUh7h+7YKsrzklb3ExTrVxFprQAQb14rEz1B/uv/ACjft2LmoAQ10h7z8BXbRD4tzI6SZxxe55zSSOJLnE8pOJVviuzADABYt1
VJVJCrolFFW8qZFcopDUFkwMd3mgqk2MTtlW9B+NZQqagg1MNYP9uNe/2ejFFscuCKZBiDMwZGvc1vqgn0UCZJHbS8jncaK0+5DcI
hX559AVh73v77i7p2eTYmjJMVvXtFlftH0qnJabOyehnxhWWjHsivRismKCd5wi63dlBUyzjk7kdfqgelX26NeEVitzX/umhx8jH
VWTaWzm4vkYwbwwZj5XUC29nf6fDI2OommOxsjw7ZjhGyjcOcKyRNc1IJ7VxbKbm3c0VIc2ZhA5pbqdwzwu6jMzkBmlb8Ll6Jp+t
XEkjGRnIxzghBoDQcd4G1efX0ty6/vKSuDjeSsDNoAMrhsdUK2YS6kaxqXydTlP/MT+JSdT1Zwx1GYjmmI/CsW/lDZpDHDE5jSQA
WCvlZlK9Fh9z2nT2UEkt1Na3j4mOnjaGvjZIQC5rcwrQHDas23lcedzF0pzpXM5lPLLIX//jVVsywpNHY9qRubsXd3XuXum42eqRyHk
mgLPOx7vgWqufdPxdAfZNtrkbjHKWn+KxqmrjkxXE+fP3ad0DAAcyus1B477A7nGBW2uOBuMrckP0ud1N8ZZIPuOK182ia7D+tp1
0z6UD/9KfqDL23d3iWdIw8oV5hY8MY4OHMarXutbtvft5W9Mbx+VUeFMDURvB5Q1wPwK7TG1opAWDE/UhQNjkkHI5jj56VWyhiuJ
GB0sJid6pNetWVFACraFeZaSHcsy20q4lIDWE9SYMPIclUXT/8Ayd//ACRm8J1kjd0org4MWrdrnYeRU57OI+u7mx/yWM+SSU1ec
OTcqK8mCxrTMOoubhHGGj5x9AVt1/dO2PDPogemqx0U2mK3SyyH2sj3g7RX0bFsNE8Bt08xntlmUZgA7KaZqU/xRaxVRvfG8SxnL
Iw5mnnCS/uj0LTHZXtPIQtHxHZfyfEU4ApFcysvYeds3ad5JGuCz9Ju2TxRzswbIK05DscOorZ8T2DtR0AX8Dc17pGaXKNr7Z1PG
b9QgPH1l1vzWZ9xynD1m2/4j021cMzJbqMvG4sYfFcPssK99XiXu2yzcY6e4YhrZ3/wXt/Mvbly7NRCKUUVCFrTtClEF19pbv70Y
KsP0fTn96FpWaiu3kyNW7hvhR3bbcKg8KaIf6cLbonq8pkapnDGjMNRAOtZkOnWUH6ULG9SyUTbyuRFEUooPmR4DXFoxpvVKkmuJ2
qEQUIiApBooUoN1w7d//HI+1ccD7SP8AOPSu7//wBdRAOPSu00/MUrXbRsIOwjeDzFeVxSvikZLH5pt3AGOPtgGjnCIunfPP6nX62alEXJsREQE</vReferenceValue>
      <vReferenceDesc>Product image</vReferenceDesc>
</hdrReference>
```

2.1.2.14 `Pricing`: **Pricing**

OEX-Element type	Domain				Description
`Pricing`	`_Pricing`				**Pricing**

Subelement	Type	Rec	M.		Description
`<ConditionType>`	`ConditionType`	1	X		**Type of condition**
`<ConditionValue>`	`Condition`	1	X		**Value of condition**
`<ConditionRate>`	`ConditionRate`	1			**Rate of condition**
`<CondCurrency>`	`CondCurrency`	1			**Currency of condition** *If not stated otherwise, currency of the document is assumed.*
`<ConditionText>`	`ConditionText`	1			**Description of condition** *related to it's condition type and as the case may be to the type of surcharge or discount (in document language). Entering the condition rate (*`ConditionRate`*) anew in the description is not permitted.*
`<PriceUnit>`	`PriceUnit`	1			**Price unit** Unit, which the condition value relates to (e.g. unit price). Examples: **1** if price per unit or **10** if price per 10 units) *If not stated otherwise, 1 is assumed.* *Not valid for total conditions (sum) or if a condition type refers to a total condition.*
`<MeasureUnit>`	`MeasureUnit`	1			**Quantity unit** for price unit *If not stated otherwise, order unit of the order item is assumed.* *Not valid for total conditions (sum) or if a condition type refers to a total condition.*

Quoting a different quantity unit for a price than the order unit implies that the receiving application is working with the same conversion rules.
The same occurs when using another currency than the document currrency. Also here, the receiving application must be able to convert the value with the corresponding exchange rate.
Different merchandise management systems or ERP systems permit on header level so-called header discounts "`DISH`" (discounts) or header surcharges "`SURH`" without breaking those down into the items and displaying them there as discounts. As a consequence, sums which have been calculated before from the items (e.g. `TNET`) do not correspond to the total sum "`TNEH`" after header discounts and/or header surcharges (compare also the following example 1).
This also applies to the value added tax. The tax-relevant net value (`TTNE`) has to be calculated on header level corresponding to the header surcharges and discounts.

Example 1 – Entire Scenario for purchase price of an order consisting of 2 items:

Order item 1:

		Order item 2:	
Gross unit price (listed price)	$ 50,00	Gross unit price (listed price)	$ 20,00
Order quantity	2	Order quantity	1
Tax	19 %	Reduced tax	7 %
Discount 1 (as basic discount)	20 %	Absolute discount (as special discount)	€ 2,00
Discount 2 (as other discounts 1)	5 % from discounted value		

Order header:

Header discount (as other discounts 2)   10 %

```xml
<!-- Header /-->
<hdrPricing aCondNo="1">
      <vConditionType aCondArea="P">TGRO</vConditionType>
      <vConditionValue>120.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</hdrPricing>
<hdrPricing aCondNo="2">
      <vConditionType aCondArea="P" aCondRef="1" aTypeDis="BD" aCondSign="-">DISI</vConditionType>
      <vConditionValue>20.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vConditionText>Basic discount<vConditionText>
</hdrPricing>
<hdrPricing aCondNo="3">
      <vConditionType aCondArea="P" aCondRef="1" aTypeDis="D1" aCondSign="-">DISI</vConditionType>
      <vConditionValue>4.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vConditionText>Show room discount<vConditionText>
</hdrPricing>
<hdrPricing aCondNo="4">
      <vConditionType aCondArea="P" aCondRef="1" aTypeDis="SD" aCondSign="-">DISI</vConditionType>
      <vConditionValue>2.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vConditionText>Special discount<vConditionText>
</hdrPricing>
<hdrPricing aCondNo="5">
      <vConditionType aCondArea="P">TNET</vConditionType>
      <vConditionValue>94.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</hdrPricing>
<hdrPricing aCondNo="6">
      <vConditionType aCondArea="P" aCondRef="5" aTypeDis="D2" aCondSign="-">DISH</vConditionType>
      <vConditionValue>9.40</vConditionValue>
      <vConditionRate>10.00</vConditionRate>
      <vCondCurrency>USD</vCondCurrency>
      <vConditionText>Promotion discount<vConditionText>
</hdrPricing>
<hdrPricing aCondNo="7">
      <vConditionType aCondArea="P">TNEH</vConditionType>
      <vConditionValue>84.60</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</hdrPricing>
<hdrPricing aCondNo="8">
      <vConditionType aCondArea="P" aTaxCode="1">TTNE</vConditionType>
      <vConditionValue>68.40</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</hdrPricing>
<hdrPricing aCondNo="9">
      <vConditionType aCondArea="P" aCondRef="8" aTaxCode="1">TTAX</vConditionType>
      <vConditionValue>13.00</vConditionValue>
      <vConditionRate>19.00</vConditionRate>
      <vCondCurrency>USD</vCondCurrency>
</hdrPricing>
<hdrPricing aCondNo="10">
      <vConditionType aCondArea="P" aTaxCode="2">TTNE</vConditionType>
      <vConditionValue>16.20</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</hdrPricing>
```

```xml
<hdrPricing aCondNo="11">
      <vConditionType aCondArea="P" aCondRef="10" aTaxCode="2">TTAX</vConditionType>
      <vConditionValue aCondValType="P">1.13</vConditionValue>
      <vConditionRate>7.00</vConditionRate>
      <vCondCurrency>USD</vCondCurrency>
<hdrPricing>
<hdrPricing aCondNo="12">
      <vConditionType aCondArea="P">TOTL</vConditionType>
      <vConditionValue>98.73</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</hdrPricing>

<!-- Item 1 /-->
<vOrderQuantity>2</vOrderQuantity>
<itmPricing aCondNo="1">
      <vConditionType aCondArea="P">SGRO</vConditionType>
      <vConditionValue>50.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="2">
      <vConditionType aCondArea="P" aCondRef="1" aTypeDis="BD" aCondSign="-">DISI</vConditionType>
      <vConditionValue>10.00</vConditionValue>
      <vConditionRate>20.00</vConditionRate>
      <vCondCurrency>USD</vCondCurrency>
      <vConditionText>Basic discount<vConditionText>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="3">
      <vConditionType aCondArea="P" aCondRef="2" aTypeDis="D1" aCondSign="-">DISI</vConditionType>
      <vConditionValue>2.00</vConditionValue>
      <vConditionRate>5.00</vConditionRate>
      <vConditionText>Show room discount<vConditionText>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="4">
      <vConditionType aCondArea="P">SNET</vConditionType>
      <vConditionValue>38.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="5">
      <vConditionType aCondArea="P">TNET</vConditionType>
      <vConditionValue>76.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</itmPricing>
<itmPricing aCondNo="6">
      <vConditionType aCondArea="P" aTaxCode="1">TTNE</vConditionType>
      <vConditionValue>76.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</itmPricing>
<itmPricing aCondNo="7">
      <vConditionType aCondArea="P" aCondRef="6" aTaxCode="1">TTAX</vConditionType>
      <vConditionValue aCondValType="P">14.44</vConditionValue>
      <vConditionRate>19.00</vConditionRate>
      <vCondCurrency>USD</vCondCurrency>
</itmPricing>
<itmPricing aCondNo="8">
      <vConditionType aCondArea="P">TOTL</vConditionType>
      <vConditionValue>90.44</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</itmPricing>
```

```xml
<!-- Item 2 /-->
<vOrderQuantity>1</vOrderQuantity>
<itmPricing aCondNo="1">
      <vConditionType aCondArea="P">SGRO</vConditionType>
      <vConditionValue>20.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="2">
      <vConditionType aCondArea="P" aCondRef="1" aTypeDis="SD" aCondSign="-">DISI</vConditionType>
      <vConditionValue>2.00</vConditionValue>
      <vConditionText>Special discount<vConditionText>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="3">
      <vConditionType aCondArea="P">SNET</vConditionType>
      <vConditionValue>18.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="4">
      <vConditionType aCondArea="P">TNET</vConditionType>
      <vConditionValue>18.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</itmPricing>
<itmPricing aCondNo="5">
      <vConditionType aCondArea="P" aTaxCode="2">TTNE</vConditionType>
      <vConditionValue>18.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</itmPricing>
<itmPricing aCondNo="6">
      <vConditionType aCondArea="P" aCondRef="5" aTaxCode="2">TTAX</vConditionType>
      <vConditionValue aCondValType="P">1.26</vConditionValue>
      <vConditionRate>7.00</vConditionRate>
      <vCondCurrency>USD</vCondCurrency>
</itmPricing>
<itmPricing aCondNo="7">
      <vConditionType aCondArea="P">TOTL</vConditionType>
      <vConditionValue>19.26</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</itmPricing>
```

Example 2 – Scenario of a complex discount collection of an invoice item:

Gross unit price of item $ 50,00
Discount 1 (as basic discount) of 20% from the gross unit price
Discount 2 (as other discounts 1) of 5% from the already discounted price of discount 1
Discount 3 (as special discount) of 10% from the resultant value from discounts 1 and 2
Invoice quantity = 2
Unit of invoice quantity = C62

```xml
<itmPricing aCondNo="1">
      <vConditionType aCondArea="S">SGRO</vConditionType>
      <vConditionValue>50.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="2">
      <vConditionType aCondArea="S" aCondRef="1" aTypeDis="BD" aCondSign="-">DISI</vConditionType>
      <vConditionValue>10.00</vConditionValue>
      <vConditionRate>20.00</vConditionRate>
      <vCondCurrency>USD</vCondCurrency>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
      <vConditionText>Basic discount<vConditionText>
</itmPricing>
```

```
<itmPricing aCondNo="3">
      <vConditionType aCondArea="S" aCondRef="2" aTypeDis="D1" aCondSign="-">DISI</vConditionType>
      <vConditionValue>2.00</vConditionValue>
      <vConditionRate>5.00</vConditionRate>
      <vCondCurrency>USD</vCondCurrency>
      <vConditionText>Show room discount<vConditionText>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="4">
      <vConditionType aCondArea="S">SUBI</vConditionType>
      <vConditionValue>38.00</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vConditionText>Subtotal<vConditionText>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="5">
      <vConditionType aCondArea="S" aCondRef="4" aTypeDis="SD" aCondSign="-">DISI</vConditionType>
      <vConditionValue>3.80</vConditionValue>
      <vConditionRate>10.00</vConditionRate>
      <vCondCurrency>USD</vCondCurrency>
      <vConditionText>Special discount<vConditionText>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="6">
      <vConditionType aCondArea="S">SNET</vConditionType>
      <vConditionValue>34.20</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
      <vPriceUnit>1.000</vPriceUnit>
      <vMeasureUnit>C62</vMeasureUnit>
</itmPricing>
<itmPricing aCondNo="7">
      <vConditionType aCondArea="S">TNET</vConditionType>
      <vConditionValue>68.40</vConditionValue>
      <vCondCurrency>USD</vCondCurrency>
</itmPricing>
```

2.1.2.15 `Config`: Configuration data

OEX-Element type	Domain				Description
`Config`	`_Frame`				Configuration data

Subelement	Type	Rec	M.		Description
`<ClassID>`	`Value`	1			Class ID
`<OptionID>`	`Value`	1	X		Option
`<OptionEAN>`	`EAN_Option`	1			EAN of Option ID
`<ValueID>`	`Value`	1	X		Value ID
`<ValueEAN>`	`EAN_Value`	1			EAN of Value ID
`<ConfigText>`	`ConfigText`	*			Configuration texts

Example:
Configuration consisting of 5 values incl. texts (en), value Y-LENGTH expects individual value input.

```
<itmConfiguration>
      <vClassID>1</vClassID>
      <vOptionID>10</vOptionID>
      <vValueID>2</vValueID>
      <itmConfigText>
            <vTextLanguage>en</vTextLanguage>
            <vOptionText>Table top</vOptionText>
            <vValueText aTextLineNo="1" aLineFormat="\">Beech</vValueText>
      </itmConfigText>
</itmConfiguration>
```

```
<itmConfiguration>
      <vClassID>1</vClassID>
      <vOptionID>Y-LENGTH</vOptionID>
      <vValueID>50.00</vValueID>
      <itmConfigText>
            <vTextLanguage>en</vTextLanguage>
            <vOptionText>Table length (inches)</vOptionText>
      </itmConfigText>
</itmConfiguration>
<itmConfiguration>
      <vClassID>1</vClassID>
      <vOptionID>XYZ</vOptionID>
      <vValueID>A</vValueID>
      <itmConfigText>
            <vTextLanguage>en</vTextLanguage>
            <vOptionText>Table base</vOptionText>
            <vValueText aTextLineNo="1" aLineFormat="\">chromed</vValueText>
      </itmConfigText>
</itmConfiguration>
<itmConfiguration>
      <vClassID>1</vClassID>
      <vOptionID>1M</vOptionID>
      <vValueID>C22</vValueID>
      <itmConfigText>
            <vTextLanguage>en</vTextLanguage>
            <vOptionText>Table height</vOptionText>
            <vValueText aTextLineNo="1" aLineFormat="\">28.4 inches</vValueText>
      </itmConfigText>
</itmConfiguration>
<itmConfiguration>
      <vClassID>1</vClassID>
      <vOptionID>ZB50</vOptionID>
      <vValueID>4D</vValueID>
      <itmConfigText>
            <vTextLanguage>en</vTextLanguage>
            <vOptionText>Layout</vOptionText>
            <vValueText aTextLineNo="1" aLineFormat="\">Pullout-Container left</vValueText>
            <vValueText aTextLineNo="2" aLineFormat="\">PC-Container right</vValueText>
      </itmConfigText>
</itmConfiguration>
```

2.1.2.16 `ConfigText`: Configuration texts

OEX-Element type	Domain				Description
ConfigText	_Frame				Configuration texts

Subelement	Type	Rec	M.		Description
`<TextLanguage>`	TextLanguage	1	X		Text language
`<OptionText>`	OptionText	1	X		Option text
`<ValueText>`	ValueText	*			Value text Here, the text is skipped if it is a freely specifiable character value.

This frame element represents the configuration texts in one or several languages of the previous configuration details (`Config`).

(Example see Configuration data)

2.1.2.17 `Payment`: Terms of payment

OEX-Element type	Domain					Description
`Payment`	`_Frame`	3*		!		**Terms of payment**

Subelement	Type	Rec	M.			Description
`<PaymentPart>`	`PaymentPart`	1	X	!		**Part of payment term**
`<PaymentRate>`	`PaymentRate`	1	X			**Discount rate (%)** 0,00 means without discount (net).
`<PaymentDays>`	`PaymentDays`	1	X			**Number of days (payment target)** days mean week days, 0 days means immediately due.

The terms of payment serve for the pure description of cash discount details and/or net payment in connection with a credit period.

Otherwise, alternative terms of payment can textually be indicated by the header text segment `hdrText` (`TextType="PAYC"`).

These details are only required when they differ from contractual agreements, or if they are not agreed.

At present, maximum 3 parts for the term of payment are supported.

For the individual due dates, the following is supposed: invoice date + number of days (payment target)

Example 1 – term of payment with one part:
10 days without discount net

```
<hdrPayment>
      <vPaymentPart>1</vPaymentPart>
      <vPaymentRate>0.00</vPaymentRate>
      <vPaymentDays>10</vPaymentDays>
</hdrPayment>
```

Example 2 – term of payment with two parts:
14 days 2% discount, 30 days net

```
<hdrPayment>
      <vPaymentPart>1</vPaymentPart>
      <vPaymentRate>2.00</vPaymentRate>
      <vPaymentDays>14</vPaymentDays>
</hdrPayment>
<hdrPayment>
      <vPaymentPart>2</vPaymentPart>
      <vPaymentRate>0.00</vPaymentRate>
      <vPaymentDays>30</vPaymentDays>
</hdrPayment>
```

Example 3 – term of payment with three parts:
5 days 3% discount, 10 days 2%, 30 days net

```
<hdrPayment>
      <vPaymentPart>1</vPaymentPart>
      <vPaymentRate>3.00</vPaymentRate>
      <vPaymentDays>5</vPaymentDays>
</hdrPayment>
<hdrPayment>
      <vPaymentPart>2</vPaymentPart>
      <vPaymentRate>2.00</vPaymentRate>
      <vPaymentDays>10</vPaymentDays>
</hdrPayment>
<hdrPayment>
      <vPaymentPart>3</vPaymentPart>
      <vPaymentRate>0.00</vPaymentRate>
      <vPaymentDays>30</vPaymentDays>
</hdrPayment>
```

Example 4 – term of payment with one part:
Due net (without discount)

```
<hdrPayment>
      <vPaymentPart>1</vPaymentPart>
      <vPaymentRate>0.00</vPaymentRate>
      <vPaymentDays>0</vPaymentDays>
</hdrPayment>
```

2.1.2.18 `DocNo`: Document numbers

OEX-Element type	Domain				Description
DocNo	_Frame				Documents numbers

Subelement	Type	Rec	M.		Description
<DocNoType>	DocNoType	1	X		Type of document number
<DocNo>	DocNo	1	X		Document number
<DocLine>	DocLine	1			Document item

In the course of a business case diverse linked documents pile up. These can be references to previous documents in the sequence of a business case (e.g. quotation → purchase order → sales order) additional documents as references (e.g. a reference to another sales order). This frame element is used to keep these details dynamic. Only in the document header (Header) the definite document number is indicated as a separate element depending on the document type as well as the corresponding item numbers on item level (Item).

Examples:

Previous document numbers (sequence) of an invoice item of the vendor

```
<itmDocNo>
      <vDocNoType aDocContext="S">QUO</vDocNoType>   !Item of a quotation
      <vDocNo>AN10040</vDocNo>
      <vDocLine>2</vDocLine>
</itmDocNo>
<itmDocNo>
      <vDocNoType aDocContext="S">ORD</vDocNoType>   !Item of an order
      <vDocNo>OR552244</vDocNo>
      <vDocLine>7</vDocLine>
</itmDocNo>
<itmDocNo>
      <vDocNoType aDocContext="S">CNF</vDocNoType>   !Item of an order confirmation
      <vDocNo>AB20050</vDocNo>
      <vDocLine>7</vDocLine>
</itmDocNo>
<itmDocNo>
      <vDocNoType aDocContext="S">TSP</vDocNoType>   !Shipment
      <vDocNo>TP30060</vDocNo>
</itmDocNo>
<itmDocNo>
      <vDocNoType aDocContext="S">DEL</vDocNoType>   !Item of a delivery note
      <vDocNo>LS40070</vDocNo>
      <vDocLine>2</vDocLine>
</itmDocNo>
```

Reference to a sales order as additional information in the order header in case of the processing of a complaint

```
<hdrDocNo>
      <vDocNoType aDocContext="R">CNF</vDocNoType>   !Referred order confirmation
      <vDocNo>AB20011</vDocNo>
</hdrDocNo>
```

2.1.2.19 `BankData`: Bank data

OEX-Element type	Domain				Description
BankData	**_Frame**				**Bank data**

Subelement	Type	Rec	M.		Description
<BankName>	**BankName**	**1**	**X**		**Name of Bank**
<BankCountry>	**BankCountry**	**1**	**X**		**Country of Bank**
<BankLocation>	**BankLocation**	**1**	**X**		**Location of Bank**
<SwiftBic>	**SwiftBic**	**1**	**1**		**SWIFT-BIC Internat. bank code**
<Iban>	**Iban**	**1**	**1**		**IBAN International account number**
<BankKey>	**BankKey**	**1**	**2**		**Bank identifier**
<BankAccount>	**BankAccount**	**1**	**2**		**Bank account**
<AccountHolder>	**AccountHolder**	**1**	**X**		**Account holder**

Annotations to the mandatory entries:
1 + 2 SWIFT-BIC and IBAN are always entered in pairs, *or* bank identifier and bank account number, *or* both pairs.

Examples:

SWIFT-BIC and IBAN (international bank transaction)

```
<hdrBankData>
      <vBankName>UBS</vBankName>
      <vBankCountry>CH</vBankCountry>
      <vBankLocation>Zürich</vBankLocation>
      <vSwiftBic>BSWCHZH80A</vSwiftBic>
      <vIban>CH0288880003586482168</vIban>
      <vAccountHolder>Gruezi AG</vAccountHolder>
</hdrBankData>
```

Bank Identifier and Account Number (national bank transaction)

```
<hdrBankData>
      <vBankName>Deutsche Bank</vBankName>
      <vBankCountry>DE</vBankCountry>
      <vBankLocation>Berlin</vBankLocation>
      <vBankKey>10070024</vBankKey>
      <vBankAccount>09572423341</vBankAccount>
      <vAccountHolder>Schmidt GmbH</vAccountHolder>
</hdrBankData>
```

2.1.3 OEX Value Types (`Value`)

All value elements are based on the basic type `Value`.

OEX-Element type	Domain	Description
AccountHolder	_AccountHolder	Account holder
AddressID	_BusPartID	Address ID
AddressType	_AddressType	Type of address
AddStateCode	_AddStateCode	Additional state code
BankAccount	_BankAccount	Account number
BankCountry	_Country	Country of bank
BankKey	_BankKey	Bank identifier
BankLocation	_Char35	Location of bank
BankName	_Char35	Name of bank
CatalogId	_CatalogId	Catalog ID
ChgOrdQuant	_Quantity	Changed order quantity
ChgOrdUnit	_Unit	Changed order unit
Classification	_Classification	Universal classification
ClientID	_BusPartID	Client ID
ClientClass	_BusPartClass	Client classification
CommodCode	_CommodCode	Commodity code (INTRASTAT)
CompSubArtId	_CompSubArtId	Identification of sub article
ComType	_ComType	Type of communication
ConditionText	_Char35	Description of condition
ConditionType	_ConditionType	Type of condition
ConditionRate	_ConditionRate	Rate of condition
ConditionValue	_Condition	Value of condition
CondCurrency	_Currency	Curreny of condition
ConfOrdQuant	_Quantity	Confirmed order quantity
ConfOrdUnit	_Unit	Confirmed order unit
ContactType	_ContactType	Type of contact
CountryCode	_CountryCode	Country code
CountryOrigin	_CountryCode	Country of origin
CountyCode	_CountyCode	County/district/state
CountyOrigin	_CountyCode	County of origin
CustomNumber	_Char35	Customs number
Date	_Date	Date
DateTimeType	_DateTimeType	Type of Date/time
DelivComplet	_DelivComplet	Completeness of delivery
DeliveryNumber	_Char35	Delivery number
DelivItemNo	_PosNo	Delivery item number
DelivQuantity	_Quantity	Delivered quantity
DelivTopLevel	_PosNo	Hight level delivery item number
DelivUnit	_Unit	Unit of delivered quantity
District	_Char35	District
DocCurrency	_Currency	Currency of document
DocLanguage	_Language	Language of document
DocNo	_Char35	Document number
DocNoType	_DocNoType	Type of document number
DocLine	_PosNo	Document item number
DocumentType	_DocumentType	Type of document
EAN_Article	_EAN	EAN of article
EAN_Option	_EAN	EAN of option ID
EAN_Value	_EAN	EAN of value ID

OEX-Element type	Domain	Description
FirstName	_Char35	First name
GrossWeight	_Quantity	Gross weight
Height	_Quantity	Height
Iban	_Iban	IBAN International account number
IncoTerm	_IncoTerm	Inco Terms (terms of delivery)
IncoTermLoc	_Char35	Location concerning Inco Terms
InvoiceNumber	_Char35	Invoice number
InvoiceType	_InvoiceType	Type of invoice
InvoiItemNo	_PosNo	Invoice item number
InvoiQuantity	_Quantity	Invoiced quantity
InvoiTopLevel	_PosNo	Higher level invoice item number
InvoiUnit	_Unit	Unit of invoiced quantity
LastName	_Char35	Last name
Length	_Quantity	Length
Location	_Char35	Location (City)
MeansTransp	_MeansTransp	Means of transport
MeasureUnit	_Unit	Measurement unit
Name1	_Char35	Name 1
Name2	_Char35	Name 2
Name3	_Char35	Name 3
Name4	_Char35	Name 4
NetWeight	_Quantity	Net weight
NumPackages	_Integer	Number of packages
NumArtPack	_Integer	Number of articles per package
OptionText	_Char80	Value text
OrdChangeNo	_Char35	Order change number
OrdChgCompNo	_PosNo	Number of order change item of the composite article
OrdChgItemNo	_PosNo	Order change item number
OrdChgTopLevl	_PosNo	Higher level order change item number
OrdConfCompNo	_PosNo	Number of order confirmation item of the composite article
OrdConfirmNo	_Char35	Order confirmation number
OrdConfItemNo	_PosNo	Order confirmation item number
OrdConfTopLevl	_PosNo	Higher level order confirmation item number
OrderComposNo	_PosNo	Number of order item of the composite article
OrderItemNo	_PosNo	Order item number
OrderNumber	_Char35	Order number
OrderQuantity	_Quantity	Order quantity
OrderTopLevel	_PosNo	Higher level order item number
OrderType	_OrderType	Type of order
OrderUnit	_Unit	Order unit
OrgDataType	_OrgDataType	Type of organizational data
PackageNumber	_Char35	Package number
PackageType	_PackageType	Type of package
PackedWithItem	_PosNo	Verpackt mit Lieferposition
PartDelivery	_YesNo	Allow partial deliveries?
PaymentDays	_PaymentDays	Number of days (payment target)
PaymentPart	_PaymentPart	Part of payment term
PaymentRate	_PaymentRate	Discount Rate (%)
PostalCode	_PostalCode	Postal code
PostalCodePOB	_PostalCode	Postal code of P.O. Box
PriceUnit	_Quantity	Price unit

OEX-Element type	Domain	Description
QuoteAlterNo	_PosNo	**Alternative item number to quotation item number**
QuoteComposNo	_PosNo	**Number of quotation item of the composite article**
QuoteItemNo	_PosNo	**Number of quotation item**
QuoteNumber	_Char35	**Quotation number**
QuoteQuantity	_Quantity	**Quotation quantity**
QuoteTopLevel	_PosNo	**Higher level of quotation item number**
QuoteUnit	_Unit	**Quotation unit**
ReferenceType	_ReferenceType	**Type of reference**
RequAlterNo	_PosNo	**Alternative item number to request item number**
RequComposNo	_PosNo	**Number of request item of the composite article**
RequestItemNo	_PosNo	**Number of request item**
RequestNumber	_Char35	**Request number**
RequQuantity	_Quantity	**Request quantity**
RequTopLevel	_PosNo	**Higher level of request item number**
RequUnit	_Unit	**Request unit**
ShipmentBase	_ShipmentBase	**Shipment base**
ShipmentNumber	_Char35	**Shipment number**
Street	_Char35	**Street**
Street2	_Char35	**Street 2**
SupplierID	_BusPartID	**Supplier ID**
SupplierClass	_BusPartClass	**Supplier classification**
SwiftBic	_SwiftBic	**SWIFT-BIC Internat. bank code**
TextContent	_TextLine	**Content of text**
TextLanguage	_Language	**Language of text**
TextLineNo	_LineNo	**Line number of text**
TextType	_TextType	**Type of text**
Time	_Time	**Time**
TimeZone	_UTC	**Time zone**
TransportMode	_TransportMode	**Transport mode**
UnitVolume	_Unit	**Volume unit**
UnitWeight	_Unit	**Weight unit**
ValueText	_TextLine	**Value text**
VendorArtNo	_VendorArtNo	**Article number of vendor (supplier)**
VendorID	_VendorID	**Vendor (supplier) ID**
VendorSeries	_VendorSeries	**Vendor (supplier) series**
Volumen	_Quantity	**Volume**
Width	_Quantity	**Width**

2.1.4   OEX Attribute Types (`Empty`)

All attribute elements are based on the basic type `Empty`.

OEX-Element type	Domain	Description
AppVersion	_Version	Version of application

2.2 Data Domains

Naming of domains: Prefix _ (underscore) + name starting with a capital letter.
The column "Restrict." (Restriction) differentiates in a table of values, under which conditions its values are valid. Data types are explained in section 2.3, possible attributes in section 2.4.
At some data domains, a value is regarded as set if the value is "empty" `<empty>` and/or the element referring to this data domain is skipped `<skipped>`.

Domain	Data type	Len	Dec	Sep	Description
_AccountHolder	**CHAR**	**27**			**Account holder**
_AddressType	**CHAR(UPPER)**	**2**			**Type of Address**
	Table of values		Restrict.		
	SO				Sold-to party
	SH				Ship-to party
	IN				Bill-to party
	PA				Payer
	CA				Carrier (shipper)
	SU				Supplier (vendor)
	EU				End user
	IS				Installation company (on-site installation)
	IL				Installation location
	BR				Branch (of sold-to party)
_AddStateCode	**CHAR**	*****			**Additional state information** Specification of the properties (incl. their values) that have led to the creation of a sub-item. (specific to OFML Part III)
_Attribute	**ATTR**				**Attribute element**
_BankAccount	**CHAR(NUPPER)**	**20**			**Bank account number** National account number
_BankKey	**CHAR(NUPPER)**	**10**			**Bank identifier** National bank identifier
_BusPartClass	**CHAR**	**20**			**Business partner classification**
	Attribute		Mandat.		
	aBusPartClassType		X		Type of business partner classification
_BusPartID	**CHAR**	**20**			**Business partner ID**
	Attribute		Mandat.		
	aBusPartIDType		X		Type of business partner ID
_CatalogId	**CHAR(RX001)**	*****			**Catalog ID** Unique key of a catalog profile Format: <identifier>.<revision> (see catalog profile specification) Example: de-2011.1
_Char35	**CHAR**	**35**			**Alphanumerical value 35**
_Char80	**CHAR**	**80**			**Alphanumerical value 80**
_Classification	**CHAR**	*****			**Universal classification**
	Attribute		Mandat.		
	aClassSystem		X		Classification system
_CommodCode	**NUM(NOSIGN)**	**8**			**Commodity code (INTRASTAT)** Commodity code defined in the commodity index for foreign-trade statistics.
_CompSubArtId	**CHAR**	*****			**Identification of the sub article** within the composite article (specific to OFML Part III)

Domain	Data type	Len	Dec	Sep	Description
_ComType	**CHAR(UPPER)**	**3**			**Types of communications**
	Table of values		Restrict.		
	TEL				Telephone number
	FAX				Fax number
	MOB				Mobile number
	WWW				Website
	EMA				Email-address
	Attribute		Mandat.		
	aScopeInfo		X		Scope of information
_Condition	**NUM(NOSIGN)**	*	**2**	**.**	**Value of condition** (absolute) Price, discount value, tax value etc.; is defined by the condition type (_ConditionType).
_ConditionRate	**NUM(NOSIGN)**	*	**2**	**.**	**Rate of condition** (percentaged) Discount rate, tax rate etc.; is defined by the condition type (_ConditionType).
_ConditionType	**CHAR(UPPER)**	**4**			**Types of conditions** Defines type and usuage of a condition value (_Condition) respectively of a condition rate (_ConditionRate). Here, specifications like gross and net do not apply to the value added tax.
	Table of values		Restrict.		
	SNET		ITM A		Net unit price *Unit prices are sometimes already a total of serveral prices, which are the result of a configurable product but not stored or shown separately.*
	SGRO		ITM A		Gross unit price *(surcharges and discounts allowed) Unit prices are sometimes already a total of serveral prices, which are the result of a configurable product but not stored or shown separately.*
	TNEH		HDR A		Total net on header level *After discount and/or surcharges on header level (DISH, SURH). If those are not specified, the condition type can be skipped. Then it is identical to the condition type total net (TNET) on header level.*
	TNET		A		Total net
	TGRO		A		Total gross
	TOTL		A		Grand Total *Total incl. taxes*
	DISH		HDR CR TD –		Discount on header level *is calculated from the total net value (TNET) of the header. After that, further combinations or graduations with the condition types DISH and SURH are possible. If a discount shall be indicated as absolute discount restriction "A" applies.*

Domain	Data type	Len	Dec	Sep	Description
_ConditionType	**Table of values**		**Restrict.**		
(continued)	DISI		CR TD –		Discount on item level *Discounts are calculated from the gross value. The corresponding condition type of the gross value is indicated as standard condition.* *Other discounts can also be calculated from the already discounted value. Here, the corresponding condition type is indicated as standard condition.* *A combination with surcharges is possible, too.* *If a discount shall be specified as absolute discount restriction "A" applies.* *On header level, this condition type is the sum of all discounts of the items in consideration of the discount type. Here, no percentage is indicated. (Restriction "A")*
	SURH		HDR CR TS +		Surcharge on header level *is calculated from the total net value (TNET) of the header. After that, further combinations or graduations with the condition types DISH and SURH are possible.* *If a discount shall be indicated as absolute discount restriction "A" applies.*
	SURI		CR TS +		Surcharge on item level *Surcharges are calculated from the gross value. But further surcharges can be calculated from an already charged value..* *In both cases the standard condition is indicated as in the case of the discount. If a discount shall be indicated as absolute discount restriction "A" applies.* *On header level this condition type is the sum of all surcharges of the items in consideration of the surcharge type. Here, no percentage is displayed. (Restriction "A")*
	SUBH		HDR A		Subtotal on header level *serves as reference condition for subsequent discounts or surcharges (DISH, SURH). All previous discounts or surcharges are calculated with their standard conditions and form the respective subtotal.* *All subsequent discounts or surcharges may not refer to conditions previous to the subtotal. The indication of several subtotals type SUBH is permitted but not in direct succession.*

Domain	Data type	Len	Dec	Sep	Description
_ConditionType	**Table of values**		**Restrict.**		
(continued)	SUBI		A		Subtotal on item and/or header level *serves as reference condition for subsequent discounts or surcharges (DISI, SURI). All previous discounts or surcharges are calculated with their reference conditions and form the respective subtotal. All subsequent discounts or surcharges may not refer to conditions previous to this subtotal. The indication of several subtotals type SUBI is permitted but not in direct succession.*
	TTNE		A TAX		Tax net value *This condition type is added on header level in consideration of the tax code.*
	TTAX		CR P TAX		Tax rate *Within a document, exactly one tax rate is allocated to one tax code.*
	Restrictions				**Usage**
	ITM				Document items only
	HDR				Document header only
	A				Absolute condition value only *_Condition contains condition value. _ConditionRate inapplicable.*
	P				Percent condition value only *_Condition contains the value on bases of the condition rate. _ConditionRate contains the percentage rate.*
	CR				Specification of refered condition required
	TAX				Sepcification of tax code required
	TS				Type of surcharge required
	TD				Type of discount required
	+				Surcharge (aCondSign="+")
	–				Discount (aCondSign="-")
	Attribute		**Mandat.**		
	aCondArea		X		Condition area
	aCondRef				Condition reference (base of calculation)
	aTaxCode				Tax code
	aTypeDis				Type of surcharge
	aTypeSur				Type of discount
	aCondSign				Sign indicating surcharge or discount
_ContactType	**CHAR(UPPER)**	**2**			**Types of contacts**
	Table of values		**Restrict.**		
	SC				Sales contact
	WC				Warehouse contact
	IN				Installer
	SU				Support
_CountryCode	**CHAR(UPPER)**	**2**			**Country code according to ISO 3166-1** Examples: DE Germany ES Spain GB Great Britain FR France

Domain	Data type	Len	Dec	Sep	Description
_CountyCode	CHAR	6			**Country/district/state accord. to ISO 3166-2** Only the second part is indicated. The first part corresponds with the country code according to ISO 3166-1 (_CountryCode). Examples for country US (USA): CA California NY New York TX Texas WA Washington
_Currency	CHAR(UPPER)	3			**Currency code according to ISO 4217** (for valid currencies at present) Examples: EUR Euro GBP Brit. Pound CHF Swiss Francs USD US Dollar
_Date	CHAR(DATE)	8			**Date**

_Date	Attribute	Mandat.	
	aDateFormat	X	Date format
	aDateCalcBase	1	Base of date determination
	aDateCalcMode	1	Mode of date determination

Domain	Data type	Len	Dec	Sep	Description
_DateTimeType	CHAR(UPPER)	3			**Types of date/time**

	Table of values	Restrict.	
	DOC	HDR T	Document date *Date when the document was added to the XML-file.*
	CRD		Customer requested delivery date *For a delivery as fast as possible, the customer can enter for example a delivery date at short notice to beckon the vendor to confirm the best possible date (without obligation).*
	DLD		Delivery date (supplier) *Delivery date without obligation of the supplier. If a fixed delivery date should be confirmed, use type "FXD – Fixed delivery date" instead.*
	EPD		Earliest possible delivery date *A delivery before this date is not permissible. In combination with the LPD, latest possible delivery date, it can form a delivery period.*
	LPD		Latest possible delivery date *A delivery after this date is not permissible. In combination with EPD, earliest possible delivery date, it can form a delivery period.*
	FXD		Fixed delivery date
	REQ	HDR	Request date
	QUO	HDR	Quotation date
	QUV	HDR	Quotation validity date (Quotation valid until)
	ORD	HDR	Order date *Date when the order application has ordered.*
	COD	HDR	Order confirmation date

Domain	Data type	Len	Dec	Sep	Description
_DateTimeType (continued)	**Table of values**		**Restrict.**		
	DES		HDR		Despatch advice date
	DND		HDR		Delivery note date
	INV		HDR		Invoice date
	DUE				Due date
	DSR		HDR		Date of services rendered
	PRD				Price date *Date when prices have been calculated using a price list valid on this date. Therefore the designation of the price list is corresponding to the "organizational data".*
	Restrictions			**Usage**	
	ITM				Document items only
	HDR				Document header only
	T				Specification of time required
_DelivComplet	**CHAR(UPPER)**	**1**			**Completeness of delivery** (regarding an order or an order item)
	Table of values		**Restrict.**		
	E				Entire delivery
	P				Partial delivery
_Document	**FRAME**				**Single document**
	Attribute		**Mandat.**		
	aDocNo		X		Consecutive number of the document
	aItemCount		X		Total number of items in the document
	aAction		X		Action
_DocFrame	**FRAME**				**OEX document frame**
	Attribute		**Mandat.**		
	aMajor		X		Major version of OEX
	aTransferMode				Transfer mode of the XML-file
	<XSD>		X		XML schema integration (see 1)
_DocNoType	**CHAR(UPPER)**	**3**			**Types of document numbers**
	Table of values		**Restrict.**		
	REQ				Request number
	QUO				Quotation number
	ORD				Order number
	CNF				Order confirmation number *(corresponding to sales order number or sales document number from the vendor's point of view)*
	DEL				Delivery number *(delivery note number)*
	LOL				Loading list number
	SHP				Shipment number *A shipment is composed of one or more deliveries (DEL) and/or orders (CNF). (see dispatch notification (DESADV))*
	INV				Invoice number
	TAN				Transaction number
	CON				Contract number
	Attribute		**Mandat.**		
	aDocContext		X		Document context

Domain	Data type	Len	Dec	Sep	Description
_DocumentType	**CHAR(UPPER)**	**6**			**Types of documents**
	Table of values		Restrict.		
	REQOTE				Request (of a quotation)
	QUOTES				Quotation
	ORDERS				Order (purchase order)
	ORDCHG				Order change
	ORDRSP				Order confirmation (response)
	DESADV				Despatch advice
	INVOIC				Invoice
	Attribute		Mandat.		
	aMajor		X		Major version number
	aMinor		X		Minor version number
	aBuild		X		Build version number
_EAN	**CHAR**	*			**EAN** International (**E**uropean) **A**rticle **N**umber
	Attribute		Mandat.		
	aEANType		X		EAN Type
_File	**FRAME**				**File of documents**
	Attribute		Mandat.		
	aDocumentCount		X		Number of documents within a file
_Frame	**FRAME**				**Frame element**
_Header	**FRAME**				**Document header**
	Attribute		Mandat.		
	aAction		X		Action
_Iban	**CHAR(NUPPER)**	**34**			**IBAN** **I**nternational **B**ank **A**ccount **N**umber According to ISO 13616:2003
_IncoTerm	**CHAR(UPPER)**	**3**			**Inco Terms according to Inco Terms 2000** (international terms of delivery)
	Table of values		Restrict.		
	CFR		POD		Cost and Freight
	CIF		POD		Cost, Insurance and Freight
	CIP		DST		Carriage and Insurance Paid To
	CPT		DST		Carriage Paid To
	DAF		PLA		Delivered At Frontier
	DDP		PLA		Delivered Duty Paid
	DDU		PLA		Delivered Duty Unpaid
	DEQ		POD		Delivered Ex Quay
	DES		POD		Delivered Ex Ship
	EXW		PLA		Ex Works
	FAS		POS		Free Alongside Ship
	FCA		PLA		Free Carrier
	FOB		POS		Free On Board
	Restrictions				Ortsangaben
	PLA				Named place
	POS				Named port of shipment
	POD				Named port of destination
	DST				Named place of destination
_InvoiceType	**CHAR(UPPER)**	**2**			**Types of invoices**
	Table of values		Restrict.		
	IN				Invoice
	CN				Credit Note
	PI				Proforma Invoice

Domain	Data type	Len	Dec	Sep	Description
_Integer	**NUM**	*			**Integer value**
_Item	**FRAME**				**Document item**
	Attribute		**Mandat.**		
	aItemNo		X		Consecutive number of document item
	aAction		X		Action
	aItemTypeClient				Item type of client's item
	aItemTypeVendor				Item type of vendor's item
_Language	**CHAR(LOWER)**	**2**			**Language code according to ISO 639-1** <u>Examples:</u> de German en English fr French es Spanish If the language is determined by the country (language version) the attribute for the locale is indicated. <u>Example:</u> Language en (English) and locale aLocale="US" for American English.
	Attribute		**Mandat.**		
	aLocale				Locale
_LineNo	**NUM(LIST1)**	*			**Line number**
_MeansTransp	**CHAR(UPPER)**	**3**			**Means of transport**
	Table of values		**Restrict.**		
	PAL				Pallet
	ROL				Roll
	SAC				Sack
	LAB				Lattice box
	CON				Container
	BAR				Barrel
_OrderType	**CHAR(UPPER)**	**2**			**Types of orders** Can be used for the further determination of the sales order, especially for the purchase order (ORDERS).
	Table of values		**Restrict.**		
	SO				Standard order
	XO				Express order *is generally offered for articles defined by the vendor (for example in the context of a sales promotion or contractual agreement) which have a faster delivery time/ availability than normally. Here, the order volume is generally restricted to a certain quantity.* *If and how this type of order is processed depends on the respective manufacturer.*
	MU				Mock-up order
	CP				Complaint processing order *Here, a corresponding complaint has been received by the vendor before and the case may be, a document number has been allocated, which can be indicated in the order (DocNo).*
	SP				Spare part order
	SR				Show room order

Domain	Data type	Len	Dec	Sep	Description
_OrgDataType	**CHAR(UPPER)**	**3**			**Type of organizational data** *Note: The possibility to use various data in the document does not mandatorily mean, that the receiver is also able to process or to return these data.*
	Table of values		**Restrict.**		
	COM				Commission
	PJN				Project number
	CCC				Customer cost center
	POR				Purchase organization
	PGR				Purchase group
	SOR				Sales organization
	SGR				Sales group
	SOF				Sales office
	DIC				Distribution channel
	DIV				Division
	DPL				Delivering plant
	DLO				Despatch location
	PLO				Point of loading
	TOU				Tour
	LOC				Unloading point e.g. building/floor/room
	TRZ				Transport zone
	PRI				Processing indicator *for the differentiation between internal and external processes of an organization.*
	POS		ITM		Position ID *for the indication of an item number especially edited or differing from the distinct item number.* *Example: "100.A.10-1".*
	CNF		ITM		Configuration ID *E.g. as support for a configurator application to identify its own created configuration.*
	ITM		ITM		Article ID *E.g. for specific end article number*
	Restrictions				**Usage**
	ITM				Document items only
	HDR				Document header only
_PackageType	**CHAR(UPPER)**	**3**			**Types of packages**
	Table of values		**Restrict.**		
	CBB				Cardboard box
	PAP				Paper
	FOI				Foil
	BOT				Bottle
	TIN				Tin
	CAN				Can
	BOX				Box
	BAG				Bag
_PaymentDays	**NUM(NOSIGN)**	**3**			**Number of days**
_PaymentPart	**NUM(LIST1)**	**1**			**Part of payment term**
_PaymentRate	**NUM(NOSIGN)**	**5**	**2**	**.**	**Discount rate (%)**
_Phone	**CHAR(PHONE)**	**20**			**Number for Telephone, Fax, Mobile**
_PosNo	**CHAR(POS)**	**6**			**Position number**

Domain	Data type	Len	Dec	Sep	Description
_PostalCode	**CHAR(POSTAL)**	**10**			**Postal code**
_Pricing	**Frame**	*****			**Pricing**
	Attribute		Mandat.		
	aCondNo		X		Consecutive number of condition
_Quantity	**NUM(NOSIGN)**	*****	**3**	**.**	**Quantity**
_ReferenceType	**CHAR(UPPER)**	**3**			**Types of references**
	Table of values		Restrict.		
	LNK				Executable link (entire URL) *E.g. to follow a link for a HTML-site directly through the internet-browser.*
	ATT				Attachment *Complete name of a file that is sent with the OEX document in an e-mail. (e.g. Product information.pdf)*
	DOC				Reference to a document *Name or file name of a document*
	EDS				Embedded Data Stream as Base64
	Attribut		Pflicht		
	aMIMEType		X		MIME-Type Type of data (according to RFC 2046)
_ShipmentBase	**CHAR(UPPER)**	**1**			**Shipment base** defines, if a shipment is composed either of orders or of deliveries.
	Table of values		Restrict.		
	O				Order (sales)
	D				Deliveries (delivery notes)
_SwiftBic	**CHAR(NUPPER)**	**11**			**SWIFT-BIC Internat. bank code** **S**ociety for **W**orldwide **I**nterbank **F**inancial **T**elecommunication **B**ank **I**dentifier **C**ode According to ISO 9362
_TextLine	**CHAR**	**80**			**Text line**
	Attribute		Mandat.		
	aTextLineNo		X		Text line number
	aLineFormat		X		Line format
_TextType	**CHAR(UPPER)**	**4**			**Types of texts**
	Table of values		Restrict.		
	HEAD		HDR		General header text *Texts, which are not covered by other text types for document header.*
	ITEM		ITM		General item text *Texts, which are not covered by other text types for documents items.*
	ARTS		ITM		Article short text *Used as short description of the article and consists of only one line.* (vTextLineNo = 1) *Besides the article number the article short text in addition identifies an article in an XML-file and provides a better readabilty of the XML-file, if for instance shown directly in a browser using a style-sheet.*

Domain	Data type	Len	Dec	Sep	Description
_TextType (continued)	Table of values		Restrict.		
	ARTL			ITM	Article long text *Is used for detailed description of the article. The article long text doesn't have to be transferred, if both trading partners deal with a non-modified standard article known by each other.*
	ARTM			ITM	Modified article long text *In the case of a modified standard article (original article of the manufacturer/ vendor) or a customer article, its modified text is transferred and the article is correspondingly indicated. Systems which do not differentiate text types and manage all texts in one text block must insert the total text block here.* (vVendorArticleNo → aStatus = M respectively C)
	PAYC			HDR	Payment terms *If different from contracted agreements or not agreed.*
	GRTM				Goods receiving times
	DNOT				Despatch notes
	DCON			HDR	Delivery terms *If different from contracted agreements or not agreed.*
	INOT				Installation notes
	PRMD				Terms of transaction *Hints to support the processing of a business case.* *Example: „Please provide staff for unloading and distribution on the delivery."*
	ADAG				Additional agreement *(with contractual relevance)*
	Restrictions				Usage
	ITM				Document items only
	HDR				Document header only
_Time	**CHAR(TIME)**	**6**			**Time**
_TransportMode	**CHAR(UPPER)**	**3**			**Transport mode**
	Table of values		Restrict.		
	SNA				Navigation
	SIN				Inland navigation
	SCO				Coasting
	LRO				Road traffic
	LRR				Railway traffic
	AAV				Aviation
	MMT				Multimodal transport *(several transport modes)*
_Unit	**CHAR(NUPPER)**	**3**			**Measurement unit code** According to Common Code of UN/ECE Recommendation 20 Examples: C62 One (piece) MTR Meter MTK Square meters

Domain	Data type	Len	Dec	Sep	Description
_UTC	**CHAR(UTC)**	**5**			**Time zone according to UTC** (UTC = Universal Time Coordinated)
_Value	**CHAR**	*****			**Any value**
_VendorArtNo	**CHAR**	*****			**Article number of the vendor (supplier)** *This is the basic article number of the vendor (supplier).* *(analog OCD article table → ArticleID)* *In case of configurable articles the result of the configuration is described by the frame type* "Config *– configuration details".* *Optional for further characteristics of the article and the configuration frame type* "OrgData *– Organizational data" is also available.* *(e.g.* _OrgDataType "CNF" *or* "ITM"*)*
	Attribute		**Mandat.**		
	aStatus		X		Status of article
_VendorID	**CHAR(NUPPER)**	**4**			**Vendor (supplier) ID** *According to OCD-Specification*
_VendorSeries	**CHAR(NUPPER)**	**4**			**Vendor (supplier) series** *According to OCD-Specification*
_Version	**ATTR**				**Version**
	Attribute		**Mandat.**		
	aMajor		X		Major version number
	aMinor		X		Minor version number
	aBuild				Build version number
_YesNo	**BOOL**	**1**			**Yes/No**
	Table of values		**Restrict.**		
	Y				Yes
	N				No

2.3 Data types

Naming of data types: completely in capital letters

Data type	Options	Description/Explanation
ATTR	Attribute element	
BOOL	Boolean Value	
CHAR	All characters of the basic code-page of the OEX-document	
	UPPER	**Capital letters only** Valid values: ABCDEFGHIJKLMNOPQRSTUVWXYZ
	NUPPER	**Capital letters and digits** Valid values: ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789 Examples: DE456271567 (EU VAT ID) UBSWCHZH80A (SWIFT-BIC) DE68210501700012345678 (IBAN)
	XUPPER	**Capital letters and others** Valid values: ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789 +-*=_\/.,:;()!?#&%" Space character in between
	LOWER	**Lower case letters only** Valid values: abcdefghijklmnopqrstuvwxyz
	NLOWER	**Lower case letters and digits** Valid values: abcdefghijklmnopqrstuvwxyz0123456789
	XLOWER	**Lower case letters and others** Valid values: abcdefghijklmnopqrstuvwxyz0123456789 +-*=_\/.,:;()!?#&%" Space character in between
	PHONE	**Phone numbers** Valid values: 0123456789+-/.() Space character in between Examples: 07525 523 25 +49(0)89/6213-10 888.999.777
	RX001	**Regular expression 001** [a-z][a-z0-9_-]*.[0-9]* Example: de-2011.1
	NUMB	**Numerazion, list, rank** Valid values: 0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ-. Space character in between Examples: 1, 1.1, 1.2 etc. 1, 1-1, 1-2 etc. A, B, C etc. I, II, III, IV etc. I.1, I.2, etc.

Data type	Options	Description/Explanation
CHAR (continued)	POS	**Position numbering** Valid values: **0123456789** *Usually a consecutive number using an increment. The numbering is indicated depending on the field length with leading numbers. The item numbering corresponds for the most part to a positive integer value which is saved as character string and whose size is determined by the number of digits.* Examples (6-digits data field, increment 1): `000001, 000002, 000003 etc.`
	POSTAL	**Postal codes** Valid values: **0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ** Space character and **–** in between Examples: `07743` (Jena) `170 00` (Prag) `ECM1 5PG` (London) `00-023` (Warschau)
	DATE	**Date** Valid values: **0123456789** *Day format (YYYYMMDD) or Week format (YYYYWW) see attributes* `aDateFormat`
	TIME	**Time** Time format: 24 hours `HHMMSS` `HH` Hours (**00 – 23**) `MM` Minutes (**00 – 59**) `SS` Seconds (**00 – 59**)
	NUMCHAR	**Digits and letters** Valid values: **0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ** **abcdefghijklmnopqrstuvwxyz**
	UTC	**UTC Universal Time Coordinated** *The time zones are indicated as positive or negative deviation (time lag) from UTC.* Format: `SHHMM` `S` = Sign (**+** or **–**) `HH` = Hours (**00 – 23**) `MM` = Minutes (**00 – 59**) Examples: Western European Time (WET) `+0000` (+0 Hours) UTC (Great Britain, Portugal, Iceland, etc.) Central European Time (CET) `+0100` (+1 Hour) UTC+1 (Germany, France, Switzerland, etc.) Central Europ. Summer Time (CEST) `+0200` (+2 Hours) UTC+2 Eastern Standard Time (EST) `–0500` (-5 Hours) UTC-5 (USA-New York, Cuba, Peru, etc.)

Data type	Options	Description/Explanation
FRAME	Frame element	
NUM	Numerical Value	
	Containing decimals and separator, if applicable.	
	As decimal separator the dot "**.**" (decimal point) is used.	
	Signs (+ and −) are prefixed. If no sign is indicated "+" is supposed.	
	LIST1	**List 1**
		Used in a certain recurring element. (e.g. textlines)
		Increment 1, starting at 1, no signs
		Example: 1, 2, 3, 4 etc.
	COUNT	**Number of list elements**
		Number of elements which are enumerated with Data type NUM und Option LIST1 and have to contain at least 1 element.
		Minimum value 1, no signs
	NOSIGN	**No signs**
	VERSION	**Version number**
		0 – 65535 (Integer), no signs

2.4 Attributes

Naming of attributes: Prefix **a**

At some attributes, a value is regarded as set if the value is "empty" `<empty>` and/or the attribute is skipped `<skipped>`.

Attribute	Data type	Len	Dec	Sep	Description
`aAction`	`CHAR(UPPER)`	1			**Action** *Processing method for the application receiving the document.*
	Table of values		**Restrict.**		**Description**
	`C`				Create
	`D`				Delete
	`M`				Modify
	`N`				No action / without modification
`aBuild`	`NUM(VERSION)`	2			**Build version number**
`aBusPartClassType`	`CHAR(UPPER)`	*			**Type of business partner classification** *Determines the classification system (standard, regulation) used for the classification.*
	Table of values		**Restrict.**		**Description**
	`SIC`				Standard Industrial Classification
	`ISIC`				International Standard Industrial Classification
	`NACE`				Statistical classification of economic activities in the European Community
	`ICS`				Individual classification system (not corresponding to any norm)
`aBusPartIDType`	`CHAR(UPPER)`	*			**Type of business partner ID** *Determines the classification system (standard, regulation) used for the ID.*
	Table of values		**Restrict.**		**Description**
	`GLN`				Global Location Number
	`DUNS`				Data Universal Numbering System
	`IIS`				Individual ID system (not corresponding to any norm)
`aClassSystem`	`CHAR(XUPPER)`	*			**Classification system** *Determines the system (standard) used to specify a class or category. The following systems are predefined (reserved):*
	Table of values		**Restrict.**		**Description**
	`ECO_FR`				Article category for ECO-Tax France (according to appendix of OCD specification)
	`ECLASS-x.y`				Classification according to eCl@ss model in version x.y
	`UNSPSC`				Classification according to UN/SPSC standard
`aCondArea`	`CHAR(UPPER)`	2			**Condition area**
	Table of values		**Restrict.**		**Description**
	`P`				Purchase
	`S`				Sales
	`OP`				Original purchase price of furnisher (OCD)
	`OS`				Original sales price of furnisher (OCD)

Attribute	Data type	Len	Dec	Sep	Description
aCondNo	NUM(LIST1)	6			**Consecutive number of the condition**
aCondRef	NUM(NOSIGN)	6			**Condition reference** References the current number of the condition (aCondNo). *For the calculation base, the **consecutive number** of the respective condition is indicated as a reference. The following restrictions contain the condition types that can be referred to.*
	Restrictions				**Usage**
	SGRO				Gross unit price
	TGRO				Total gross
	DISH				Discount on header level
	DISI				Discount on item level
	SURH				Surcharge on header level
	SURI				Surcharge on item level
	SUBH				Subtotal on header level
	SUBI				Subtotal on item and/or header level
	TTNE				Tax net value
aCondSign	CHAR	1			**Sign indicating surcharge or discount**
	Table of values		**Restrict.**		**Description**
	+				Surcharge
	–				Discount
aDateCalcBase	CHAR(XUPPER)	4			**Base of date determination** is used at fields of the data type CHAR(DATE) in combination with the attribute aDateFormat and its indication for a number of days. The number of days will be used for the calculation basis corresponding to the attribute aDateCalcMode to determine the respective date in the recipient system.
	Table of values		**Restrict.**		**Description**
	*DIO				Date of order received *Dynamic date; it is not known until the time of processing.*
	<_DateTimeType>				Specification of a type "Date/Time" *reference to a date that was indicated in the previous element of the same type.*
aDateCalcMode	CHAR	1			**Mode of date determination** requires attribute aDateCalcBase.
	Table of values		**Restrict.**		**Description**
	+				Addition
	–				Subtraction

Attribute	Data type	Len	Dec	Sep	Description

`aDateFormat`	`CHAR(UPPER)`	1			**Date format**
					`YYYY` Year (4 digits) e.g. `2009`
					`MM` Month (2 digits) e.g. `02` for February
					`DD` Day (2 digits) e.g. `03`
					`WW` Week (2 digits) e.g. `05`
					`CCCC` Number of calendar days (4 digits) e.g. `0014`
					Examples: `20090203` 3rd February 2009
					          `200905` Week 5 in 2009

	Table of values		**Restrict.**		**Description**
	`D`				Day format YYYYMMDD
	`W`				Week format YYYYWW
	`C`				Number of calendar day CCCC
`aDocContext`	`CHAR(XUPPER)`	1			**Document context**
	Table of values		**Restrict.**		**Description**
	`S`				**Sequence** Document sequence of a business case; *at an invoice item e.g.: document number (and item) of the quote (`QUO`), the order (`ORD`), the delivery (`DEL`).*
	`R`				**Reference** By means of the reference, it is possible to refer to documents which are no documents in terms of the sequence of a business case but serve as additional information to process it. *Example: In case of a complaint processing the order in which the complaint occurred can be referred to.*
`aDocNo`	`NUM(LIST1)`	6			**Consecutive number of the document**
`aDocumentCount`	`NUM(COUNT)`	6			**Number of documents within a file**
`aEANType`	`CHAR(XUPPER)`	6			**EAN Type**
	Table of values		**Restrict.**		**Description**
	`EAN-8`				EAN-Code 8 digits
	`EAN-13`				EAN-Code 13 digits
`aItemCount`	`NUM(COUNT)`	6			**Number of document items within a document** *Independent of being a main item or a sub item.*
`aItemNo`	`NUM(LIST1)`	6			**Consecutive number of document item**
`aItemTypeClient`	`CHAR(UPPER)`	1			**Item type of client's item** for the differentiated processing of the item.
	Table of values		**Restrict.**		**Description**
	`<empty>/<skipped>`				Standard
	`O`		1		Optional
	`A`		1		Alternative
	Restrictions				**Usage**
	`1`				for Request and Quotation

Attribute	Data type	Len	Dec	Sep	Description
aItemTypeVendor	**CHAR(UPPER)**	**1**			**Item type of vendor's item** for a differentiated processing of the item.
	Table of values		**Restrict.**		**Description**
	`<empty>/<skipped>`				Standard
	`O`		1		Optional
	`A`		1		Alternative
	Restrictions				**Usage**
	`1`				for Request and Quotation
aLineFormat	**CHAR**	**1**			**Line format** according to OCD as from version 4
	Table of values		**Restrict.**		**Description**
	`\`				**Line feed** *text is displayed in a new line.*
	`~`				**Word-wrapping (continuous text)** *The text line is added as continuous text to the previous text. If the text line does not start with a space it has to be inserted by the processing application.*
aLocale	**CHAR(UPPER)**	**2**			**Locale** For the assignment of country specifics like language, measurements, etc. Details based on the country code according to ISO 3166-1 Examples: `DE` Germany `ES` Spain `GB` Great Britain `FR` France
aMajor	**NUM(VERSION)**	**2**			**Major version number**
aMIMEType	**CHAR**	*****			**MIME type** (Multipurpose Internet Mail Extensions) Format according to RFC 2046: <Media Type>/<Subtype> Examples: text/html text/plain image/jpeg application/pdf application/msword
aMinor	**NUM(VERSION)**	**2**			**Minor version number**
aScopeInfo	**CHAR(UPPER)**	**1**			**Scope of information**
	Table of values		**Restrict.**		**Description**
	`B`				Business
	`P`				Private

Attribute	Data type	Len	Dec	Sep	Description
aStatus	CHAR(UPPER)	1			**Status of article** *An article is clearly composed of the vendor code (_VendorID), the series code (_VendorSeries) and the article number (_VendorArtNo).* *The article status defines the origin of the article and shows if its master data (structure/ text/configuration) have been modified. So, the automatic processing shall be supported. The article status does not refer to order quantities, prices or other data corresponding to the item.*
	Table of values		**Restrict.**		**Description**
	M		REQOTE QUOTES ORDERS ORDRSP ORDCHG		**Modification of the article** *The original data of the article (O) or of the special article (S) provided by the manufacturer/ vendor have been modified (e.g. article number, series code, texts). Modified texts are provided by the item text of the text type "ARTM" (modified article text).* *The orderer has requested the modifications from the manufacturer/ vendor before. Otherwise, the case may be that such an article is rejected or not confirmed by the manufacturer/ vendor.* *If the manufacturer/ vendor does not replace this article by a special article (S), he also returns it with the status (M) and the modified text "ARTM".*
	S				**Special article of the vendor/supplier** *Article data that are returned by the manufacturer/ vendor for a modified article (M) or customer article (C) if he replaces the article by one of his own.* *Article texts are returned as follows:* *Article long text with text type "ARTL", article short text with text type "ARTS", possible configuration with configuration frame elements "itmConfiguration" and "itmConfigText".* *In the case of an order modification, this attribute is also indicated by the orderer if he has not modified the article.*
	O				**Original article** *The article corresponds to the original data provided by the manufacturer/vendor in an electronical pricelist.*

Attribute	Data type	Len	Dec	Sep	Description
aStatus (continued)	C		REQOTE QUOTES ORDERS ORDRSP ORDCHG		**Custom article** *An article created by the orderer himself in his master data or directly in the order (single use) for a special article of the manufacturer/ vendor.* *The orderer has to request such an article from the manufacturer/vendor before. Otherwise, as the case may be, such an article is rejected or not confirmed by the manufacturer/ vendor. The manufacturer/ vendor may have already given an article number to the orderer who can use it to create an article by himself. Here, the article texts are transferred as follows:* *article long text with text type* "ARTL"*, article short text with text type* "ARTS". *If the manufacturer/vendor does not replace the article by a special article (S) he also returns it with status (C).*
	Restrictions				**Usage**
	REQOTE				Request
	QUOTES				Quotation
	ORDERS				Order
	ORDRSP				Order Confirmation
	ORDCHG				Order Change
	DESADV				Despatch Advice
	INVOIC				Invoice
aTaxCode	**NUM(NOSIGN)**	**3**			**Tax code**
	Table of values		**Restrict.**		**Description**
	0				Tax-excempt
	1 – 6				Tax category for VAT according to appendix of OCD specification: 1 = Standard rate 2 = Reduced rate 3 = Severely reduced rate 4 = Parking rate 5 = Service 6 = Zero rate
	7 – 99				Reserved (for future standardization)
	100 – 999				For free use
aTextLineNo	**NUM(LIST1)**	**6**			**Text line number**
aTransferMode	**CHAR(UPPER)**	**1**			**Transfer mode of the XML-file**
	Table of values		**Restrict.**		**Description**
	<empty>/<skipped>				Operational transfer
	R				Repeated transfer
	T				Test transfer
aTypeDis	**CHAR(NUPPER)**	**2**			**Type of discounts**
	Table of values		**Restrict.**		**Description**
	BD				Basic discount
	VO				Volume discount
	SD				Special discount
	RD				Reseller discount
	AR				Aggregated discount
	D1 – D9				Other discounts (1 – 9)

Attribute	Data type	Len	Dec	Sep	Description
aTypeSur	**CHAR(NUPPER)**	**2**			**Type of surcharges**
	Table of values		Restrict.		Description
	PC				Package surcharge
	TP				Transport surcharge
	MO				Installation surcharge
	SQ				Less quantity surcharge
	PS				Processing surcharge
	S1 – S9				Other surcharges (1 – 9)

3 OEX – Scenarios

3.1 Order with follow-up Order Change (ideal case)

`ORDERS ⇨ ORDRSP ⇨ ORDCHG ⇨ ORDRSP`
Scenario: (1) orderer orders, (2) vendor confirms the order, (3) orderer modifies the order, (4) vendor confirms the modification

Timeline	Buyer	Vendor
1	ORDERS →	
2	←	ORDRSP
3	ORDCHG →	
4	←	ORDRSP
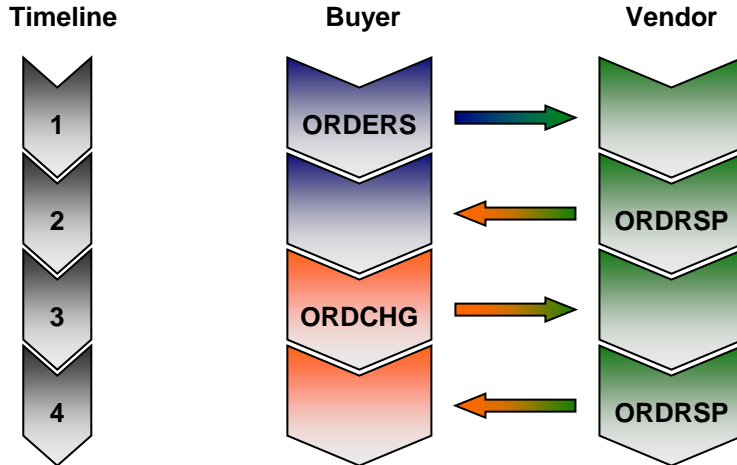
3.2 Order and Order Change (delayed to Order Confirmation)

`ORDERS ⇨ ORDCHG ⇨ ORDRSP ⇨ ORDCHG ⇨ ORDRSP`
Scenario: (1) orderer orders, (3) orderer modifies the order before it is confirmed, (3) vendor confirms order including modification, (4) orderer changes the order again, (5) vendor confirms

Timeline	Buyer	Vendor
1	ORDERS →	
2	ORDCHG →	
3	←	ORDRSP
4	ORDCHG →	
5	←	ORDRSP
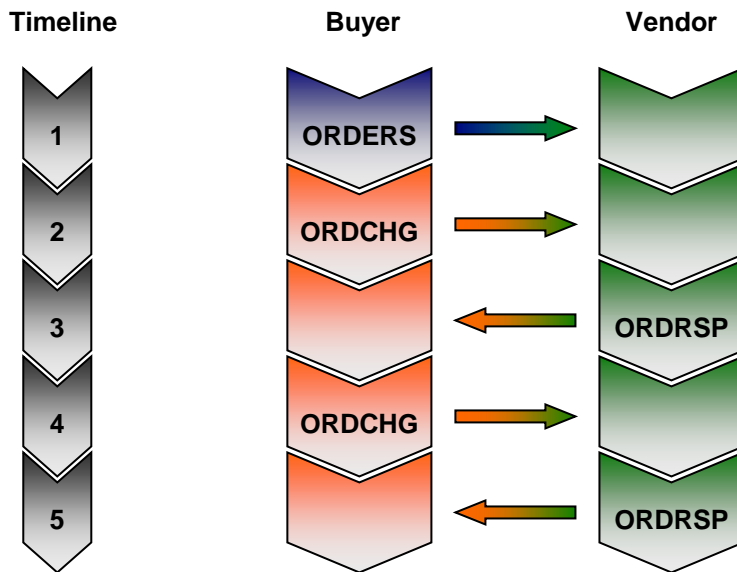
3.3   Order containing changes caused by vendor

ORDERS ⇨ ORDRSP ⇨ ORDRSP
<u>Scenario</u>: (1) orderer orders, (2) vendor confirms, (3) vendor modifies the order (e.g. delivery date)

Timeline	Buyer	Vendor
1	ORDERS →	
2	←	ORDRSP
3	←	ORDRSP
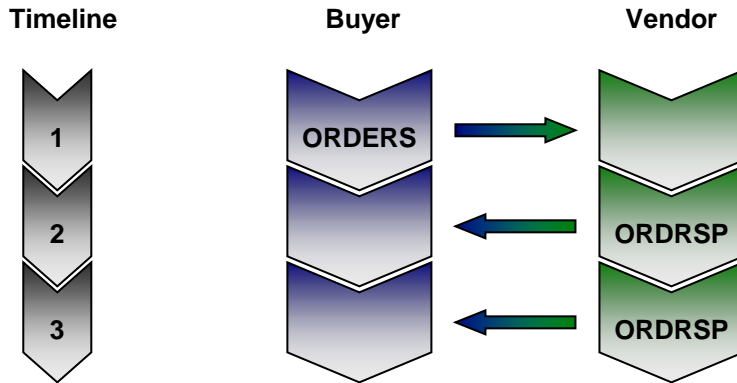
3.4   From Request to Invoice (ideal case)

REQOTE ⇨ QUOTES ⇨ ORDERS ⇨ ORDRSP ⇨ DESADV ⇨ INVOIC
<u>Scenario</u>: (1) orderer sends a request, (2) vendor sends a quote, (3) orderer orders,
(4) vendor confirms, (5) vendor advises delivery, (6) vendor invoices

Timeline	Buyer	Vendor
1	REQOTE →	
2	←	QUOTES
3	ORDERS →	
4	←	ORDRSP
5	←	DESADV
6	←	INVOIC
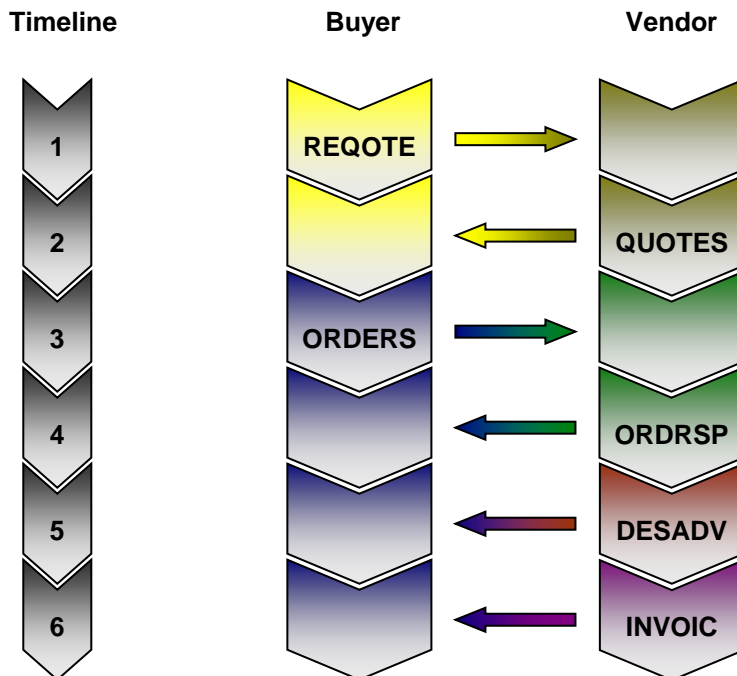
3.5　From Request to Invoice including Order Change (ideal case)

REQOTE ⇨ QUOTES ⇨ ORDERS ⇨ ORDRSP ⇨ ORDCHG ⇨ ORDRSP ⇨ DESADV ⇨ INVOIC
Scenario: (1) orderer sends request, (2) vendor sends quote, (3) orderer orders,
(4) vendor confirms, (5) orderer sends order modification, (6) vendor confirms order modification,
(7) vendor announces delivery, (8) vendor invoices.

Timeline	Buyer		Vendor
1	REQOTE	→	
2		←	QUOTES
3	ORDERS	→	
4		←	ORDRSP
5	ORDCHG	→	
6		←	ORDRSP
7		←	DESADV
8		←	INVOIC
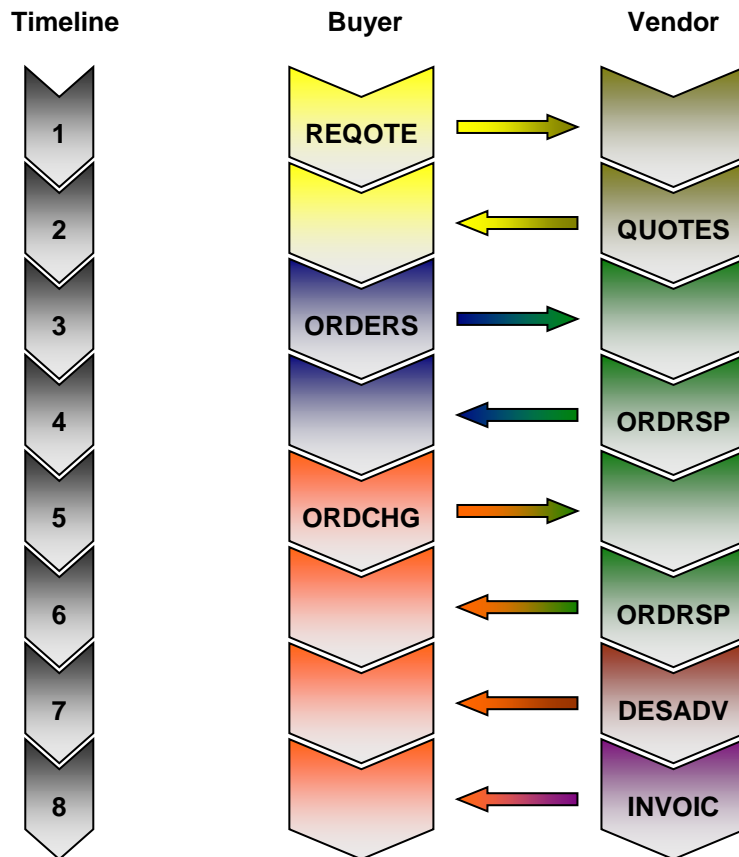
4 Appendix

4.1 History of Modification

Version	Modification
2.3.1 – 13.1.2017	<u>2.1.3 OEX Value Types</u> Added missing types: ▪ `ChgOrdQuant` – changed order quantity ▪ `ChgOrdUnit` – changed order unit ▪ `OrdChangeNo` – order change number ▪ `OrdChgCompNo` – number of the order change item oft he composite article ▪ `OrdChgItemNo` – order change item number ▪ `OrdChgTopLevl` – higher level order change item number ▪ `QuoteItemNo` – number of quotation item ▪ `RequestItemNo` – number of request item <u>2.2 Data Domains</u> ▪ `_DocNoType` – types of document numbers Added missing value: `CHG` – order change number
2.3.0 – 1.7.2015	<u>1.1 Overview of OEX Specifications</u> New minor versions of document types: ▪ `REQOTE` – Request ▪ `QUOTES` – Quotationt ▪ `ORDERS` – Order ▪ `ORDRSP` – Order confirmation ▪ `ORDCHG` – Order change ▪ `DESADV` – Dispatch Advice ▪ `INVOIC` – Invoice <u>2.1.3 OEX Value Types</u> New: ▪ `Classification` – universal classification <u>2.2 Data Domains</u> New: ▪ `_Classification` – universal classification <u>2.4 Attributes</u> New: ▪ `aClassSystem` – classification system (3 predefined systems/values) Extension: ▪ `aCondArea` – condition area new value: `OP` – original purchases price of furnisher new value: `OS` – original sales price of furnisher Change: ▪ `aTaxCode` – tax code extended length to 3 digits, numbers 1-6 now are predefined (for standardized tax categories of VAT) and numbers 7-99 now are reserved (for possible future standardization)
2.2.0 – 11.10.2013	<u>1.1 Overview of OEX Specifications</u> New minor versions of document types: ▪ `REQOTE` – Request ▪ `QUOTES` – Quotationt ▪ `ORDERS` – Order ▪ `ORDRSP` – Order confirmation ▪ `ORDCHG` – Order change ▪ `DESADV` – Dispatch Advice ▪ `INVOIC` – Invoice <u>2.1.2 OEX Frame Types</u> Extension: 2.1.2.9 `Address`: Address new optional elements ▪ `<AddressID>` – address ID ► substitutes `<ILN_AddressID>` ▪ `<Street2>` – street 2 ▪ `<District>` – district

Version	Modification
2.2.0 – 11.10.2013 (continued)	Deleted: ▪ `<ILN_AddressID>` – ILN-Nummer Adresse Examples: 2.1.2.13 `Reference`: changed example and added one <u>2.1.3 OEX Value Types</u> New: ▪ `Street2`　　　　– street 2 ▪ `District`　　　　– district ▪ `CatalogId`　　　– catalog ID ▪ `CompSubArtId`　– identification of sub article ▪ `AddStateCode`　– additional state information ▪ `ClientID`　　　– client ID ► substitutes `ILN_Client` `ClientClass` – client classification ▪ `SupplierID`　　– supplier ID ► substitutes `ILN_Vendor` ▪ `SupplierClass`　– supplier classification ▪ `AddressID`　　　– address ID ► substitutes `ILN_Address` Deleted: ▪ `ILN_Address`　　– ILN of address ▪ `ILN_Client`　　– ILN of client ▪ `ILN_Vendor`　　– ILN of supplier (vendor) Correction (typo): ▪ `OrderCompNo` ► `OrderComposNo` – Number of order item of the composite article <u>2.2 Data Domains</u> New: ▪ `_CatalogId`　　　– catalog ID ▪ `_CompSubArtId`　– identification of sub article ▪ `_AddStateCode`　– additional state information ▪ `_BusPartID`　　– business partner ID ► substitutes `_ILN` ▪ `_BusPartClass`　– business partner classification Extension: ▪ `_ReferenceType` – type of reference: 　new value "`EDS` – Embedded Data Stream as Base64" 　new attribute `aMIMEType` – MIME-Typ ▪ `_AddressType`　 – type of Address 　new value „`IL` – installation location" Change: ▪ `_OrgDataType`　 – type of organizational data 　removed value „`PRL` – price list", replaced by catalog ID Deleted: `_ILN`　　　　　　– ILN code <u>2.3 Data types</u> `CHAR` – all characters of the basic code-page of the OEX-document New option: ▪ `RX001` – regular expression 001 (affected domain: `_CatalogId`) <u>2.4 Attributes</u> New: ▪ `aMIMEType`　　　　　– MIME type ▪ `aBusPartClassType`　– type of business partner classification ▪ `aBusPartIDType`　　– type of business partner ID
2.1.0 – 09.02.2010	Initial English version