



Specification  
OEX  
OFML Business Data Exchange  
(OFML Part VII)

**ORDCHG**  
Order Change

Version 3.1.0  
English

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# Contents

<b>1</b>	<b>Introduction.....</b>	<b>3</b>
1.1	Using this specification .....	3
1.2	Filename convention.....	3
1.3	XML Declaration .....	4
1.4	Validation methods .....	4
1.5	Completeness of the document .....	4
1.6	Legend.....	5
<b>2</b>	<b>Definitions .....</b>	<b>6</b>
2.1	Superior specification .....	6
2.2	Document-type related specifications .....	6
<b>3</b>	<b>Structure.....</b>	<b>7</b>
3.1	Overview of the document structure .....	7
3.2	Frame element <code>oexDocFrame</code> – OEX document frame.....	8
3.3	Frame element <code>oexApplication</code> – Application, creating the document.....	8
3.4	Frame element <code>oexFile</code> – File of documents .....	8
3.5	Frame element <code>oexDocument</code> – Single document .....	9
3.6	Frame element <code>docHeader</code> – Document header.....	9
3.7	Frame element <code>hdrDocNo</code> – Header: Document numbers.....	10
3.8	Frame element <code>hdrDateTime</code> – Header: Date and time details.....	10
3.9	Frame element <code>hdrOrgData</code> – Header: Organizational data .....	11
3.10	Frame element <code>hdrAddress</code> – Header: Addresses.....	11
3.11	Frame element <code>hdrCom</code> – Header: Communication .....	12
3.12	Frame element <code>hdrContact</code> – Header: Contacts .....	12
3.13	Frame element <code>hdrText</code> – Header: Texts .....	12
3.14	Frame element <code>hdrReference</code> – Header: References .....	13
3.15	Frame element <code>hdrPricing</code> – Header: Pricing.....	13
3.16	Frame element <code>hdrPayment</code> – Header: Terms of payment.....	14
3.17	Frame element <code>docArticleItem</code> – Document item: Article.....	15
3.18	Frame element <code>docSetItem</code> – Document item: Set article .....	16
3.19	Frame element <code>docFolderItem</code> – Document item: Folder.....	17
3.20	Frame element <code>docTextItem</code> – Document item: Texts .....	18

3.21	Frame element <code>itmConfiguration</code> – Item: Configuration details.....	18
3.22	Frame element <code>itmConfigText</code> – Item: Configuration texts .....	19
3.23	Frame element <code>itmDocNo</code> – Item: Document numbers .....	19
3.24	Frame element <code>itmDateTime</code> – Item: Date and time details.....	19
3.25	Frame element <code>itmOrgData</code> – Item: Organizational data .....	19
3.26	Frame element <code>itmAddress</code> – Item: Addresses .....	20
3.27	Frame element <code>itmCom</code> – Item: Communication .....	20
3.28	Frame element <code>itmContact</code> – Item: Contacts .....	21
3.29	Frame element <code>itmText</code> – Item: Texts .....	21
3.30	Frame element <code>itmReference</code> – Item: References.....	21
3.31	Frame element <code>itmPricing</code> – Item: Pricing .....	22
<b>4</b>	<b>Appendix .....</b>	<b>24</b>
4.1	History of modification .....	24

# 1 Introduction

This specification defines all elements that are used to describe an order change.

Before the first order change an order (ORDERS) must be preceded. It is not necessary that the order has already been confirmed by the supplier (ORDRSP).

An order change normally results in an order confirmation (ORDRSP). Due to the chronology (processing and confirmation of the order or a change of the order by the supplier), an order confirmation always refers to the most recently received order change, i.e., always the most recent changes are confirmed.

Details on the order change are given from the point of view of the purchaser, not of the view of a possibly involved end-customer, on whose behalf the order change is placed.

Further applicable specifications (in the respectively valid version, see 2.1):

OEX-GLOBAL – Superior specification (document type independent)

Related document types/specifications:

Request (OEX-REQOTE), quotation (OEX-QUOTES), order (OEX-ORDERS), order confirmation (OEX-ORDRSP), despatch advice (OEX-DESADV) and invoice (OEX-INVOIC).

## 1.1 Using this specification

This specification describes especially the structure and elements for the document type "ORDCHG - order change". Global structures and elements being also used for other document types are described in detail in the superior specification "OEX-GLOBAL" of the corresponding version. Only structures and elements that are derived from "OEX-GLOBAL" and which are document-type specific are described in this specification.

## 1.2 Filename convention

Filename convention for the document type "ORDCHG" is:

oex-ordchg\_<sender-id>\_jjjjmmtt-hhmmss.xml

The base of the filename consists of the document type as well as of date and time (24-hours format) of the creation of the file. The file extension is ".xml".

<sender-id> is the variable part of the filename, which must be allocated by the sender of the file. Its maximum length is 20 digits. For instance, this could be a consecutive numeration of the sender, or the number of the client or supplier.

Only digits, letters and hyphens are permitted.

In case of failure it is also possible to draw a conclusion with these details in the file type, its sender and the date when it was created.

**Examples:** oex-ordchg\_K000085162\_20061102-050954.xml  
oex-ordchg\_ABC-9564154\_20061025-152417.xml

## **1.3 XML Declaration**

### XML Version and Code Page

See superior specification OEX-GLOBAL.

### XML Scheme (XS) Integration

The integration of the document-type related schema is effected by attributes defined for XML schemes within the frame element oexDocFrame:

```
<oexDocFrame aMajor="3"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="oex-ordchg_<Major>.<Minor>.<Build>.xsd">
```

The integration of the superior schema (oex-global) is already defined in the document-type related schema.

### Valid Version of the XML Schemas

To this specification, the document-type related schema in version 3.1.0 `oex-ordchg_3.1.0.xsd` applies, or in case of modification of the schema without effecting this specification, the schema with the highest build number is.

## **1.4 Validation methods**

If appropriate XML parsers are used, the respectively valid XML schema (XS) can be applied to check an OEX-ORDCHG document.

The schema is derived from the corresponding specifications and provided as master tool concerning element structure and data definition. Further checks of logical contents and dependencies as well as a mapping of the data are subject to the respectively used application.

## **1.5 Completeness of the document**

In principle, the document is transferred completely, i.e. also with document items (or data) containing no modifications with respect to the preceding reference document (`aAction = N`), see also frame element oexDocument.

## 1.6 Legend

Explanation of specific columns used in the tables in chapter "Structure".

Column	Description	Values	Meaning
<b>Rec</b>	Recurrence	<b>1</b>	Element appears exactly once
		<b>#+</b>	Element has to appear minimum # times or more. "#" is a placeholder for any number. (Example: 1+ = „must“ 1 time, „can“ several times)
		<b>#*</b>	Element can appear 0 to several times, up to maximum # times, where "#" is a placeholder for any number. If the element is a mandatory element, it must occur at least once. (Ex.: 3* = 1 to 3 times)
		<b>*</b>	Element can appear 0 to several times. If the element is a mandatory element, it must occur at least once.
<b>M.</b>	Mandatory element	<b>&lt;empty&gt;</b>	Element may be available. If it is available it must contain a value.
		<b>X</b>	Element must be available and contain a value.
		<b>#</b>	Element may be available. If it is available it must contain a value. The placeholder # stands for a consecutive number, starting with 1 for sub elements within a frame element which are mutually dependent and in general have to be indicated in combination. (e.g. quantity and quantity unit)
<b>Key</b>	Key element	<b>!</b>	Element must be available and contain a value. In addition, the element with its value and if the case may be, with the specifically indicated mandatory attributes must be well-defined in the case of repetitions within a frame element. If several elements are indicated that way they form a unique value (effect as in the case of a primary key).
<b>Mod</b>	Modification	<b>&lt;empty&gt;</b>	Element is document related and/or refers to the indicated type of the superior specification.
		<b>D</b>	Element derives from the indicated type of the superior specification and is adapted to the related document.

## **2 Definitions**

### **2.1 Superior specification**

The superior specifications (applicable to all document-types) can be found in the document OEX-GLOBAL in the respectively valid version 3.1.x. In which the „x“ refers to the highest build version number.

### **2.2 Document-type related specifications**

Specification of the document “ORDCHG” – Order Change

#### **Version rules**

This specification is available as version 3.1.0:

Major	<b>3.1.0</b>
Minor	<b>3.1.0</b>
Build	<b>3.1.0</b>

Detailed explanations of the version rules can be found in the superior specification (OEX-GLOBAL).

#### **Recurrence, mandatory and key elements**

Element features like recurrence, mandatory and key elements, can be set document-type related and do not implicate a derivation to the referred types or domains of the superior specification (OEX-GLOBAL).

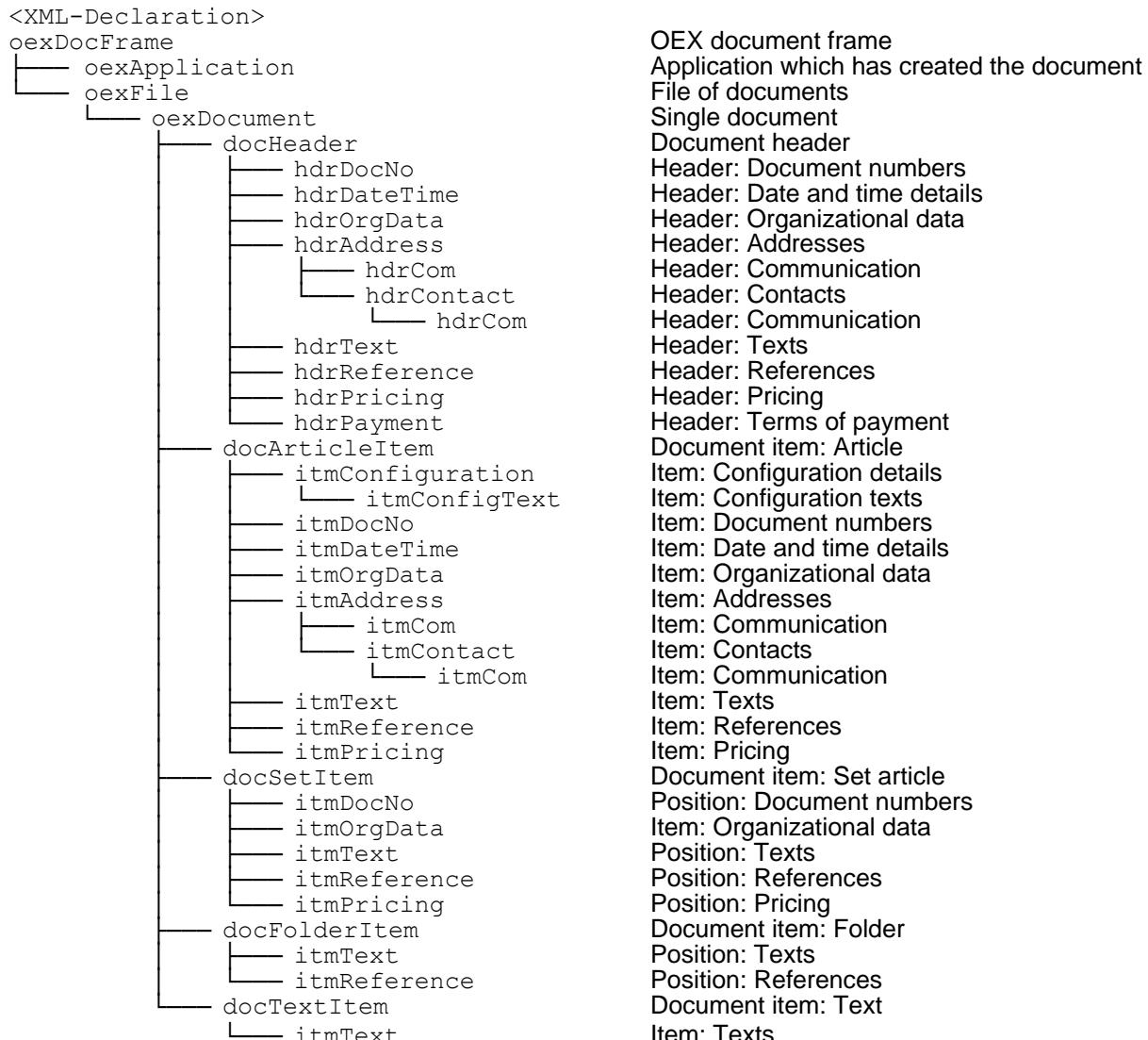
#### **Derived element types**

An element type is called “derived“ if it restricts itself to certain values, attributes and / or sub elements in opposition to its superior specification (OEX-GLOBAL).

## 3 Structure

### 3.1 Overview of the document structure

Structure of the frame elements



### 3.2 Frame element oexDocFrame – OEX document frame

Element	Type	Rec	M.	Key	Mod	Description
<b>oexDocFrame</b>	DocFrame	1	X			OEX document frame
Subelement	Type	Rec	M.	Key	Mod	Description
<b>oexApplication</b>	Applic	1	X			Application which has created the document
<b>oexFile</b>	File	1	X			File of documents

### 3.3 Frame element oexApplication – Application, creating the document

Element	Type	Rec	M.	Key	Mod	Description
<b>oexApplication</b>	Applic	1	X			Application which has created the document
Subelement	Type	Rec	M.	Key	Mod	Description
<b>vAppName</b>	Value	1	X			Name of application
<b>eAppVersion</b>	AppVersion	1	X			Version of application

### 3.4 Frame element oexFile – File of documents

Element	Type	Rec	M.	Key	Mod	Description
<b>oexFile</b>	File	1	X			File of documents
Subelement	Type	Rec	M.	Key	Mod	Description
<b>vDocumentType</b>	DocumentType	1	X		D	Type of document
	<b>Attribute</b>					
	aMajor		X			Major version number
	aMinor		X			Minor version number
	aBuild		X			Build version number
	<b>Table of values</b>				D	
	ORDCHG					Order change
<b>oexDocument</b>	Document	1+	X		D	Single document

### 3.5 Frame element oexDocument – Single document

Element	Type	Rec	M.	Key	Mod	Description
oexDocument	Document	1+	X	!		<b>Single Document</b> <i>(regarding the type of document)</i>
	<b>Attribute</b>					
	aDocNo		X	!		Consecutive number of the document
	aItemCount		X			Total number of items within document
	aAction		X			Action

Subelement	Type	Rec	M.	Key	Mod	Description
docHeader	Header	1	X			Document header
docArticleItem	Item	1+	X		D	Document item: Article
docSetItem	Item	*			D	Document item: Set article
docFolderItem	Item	*			D	Document item: Folder
docTextItem	Item	*			D	Document item: Text

The processing of the order change is operated and supported by the attribute **aAction**:  
If a change has been made to at least one document item in comparison to the preceding document (reference document), value M must be specified for the attribute **aAction**. For the changed document items (**doc\*Item**), the attribute has to be set accordingly. If there were no changes in the document items, value N must be specified for attribute **aAction** here and in all document items.

### 3.6 Frame element docHeader – Document header

Element	Type	Rec	M.	Key	Mod	Description
docHeader	Header	1	X			Document header
<b>Subelement</b>	<b>Type</b>	<b>Rec</b>	<b>M.</b>	<b>Key</b>	<b>Mod</b>	<b>Description</b>
vOrderChangeNo	DocNo	1	X			<b>Order change number</b> <i>Unique number of the order change from the supplier.</i>
vPrecedingDocType	DocNoType	1	X		D	<b>Type of (the number of) preceding document</b>
	<b>Table of values</b>					
	ORD					Order number
	CHG					Order change number
	CNF					Order confirmation number
vPrecedingDocNo	DocNo	1	X			<b>Number of preceding document</b> <i>The document to which possible changes in this document are related.</i>

vClientNumber	Value	1	X		<b>Client number</b> <i>Number, which is used by the vendor (supplier) for his client.</i>
vClientID	ClientID	*			<b>Client ID</b>
vClientClass	ClientClass	*			<b>Client classification</b>
vVendorNumber	Value	1	X		<b>Vendor (supplier) number</b> <i>Number, which is used by the purchaser (client) for his vendor.</i>
vSupplierID	SupplierID	*			<b>Supplier ID</b>
vSupplierClass	SupplierClass	*			<b>Supplier classification</b>
vDocCurrency	DocCurrency	1	X		<b>Currency of document</b>

vIncoTerm	IncoTerm	1	1		<b>Inco Terms (terms of delivery)</b> Different terms of delivery can be specified within the header text "Delivery conditions".
vIncoTermLocation	IncoTermLoc	1	1		<b>Location concerning Inco Terms</b>
vPartialDelivery	PartDelivery	1	X		<b>Allow partial deliveries?</b>
vDocLanguage	DocLanguage	1	X		<b>Language of document</b>
vOrderType	OrderType	1			<b>Type of order</b>
vGrossWeight	GrossWeight	1	2		<b>Gross weight (total)</b>
vNetWeight	NetWeight	1	2		<b>Net weight (total)</b>
vUnitWeight	UnitWeight	1	2		<b>Weight unit</b>
vVolume	Volume	1	3		<b>Volume (total)</b>
vUnitVolume	UnitVolume	1	3		<b>Volume unit</b>
hdrDocNo	DocNo	*		D	<b>Header: Document numbers</b>
hdrDateTime	DateTime	1+	X		<b>Header: Date and time details</b>
hdrOrgData	OrgData	*			<b>Header: Organizational data</b>
hdrAddress	Address	1+	X		<b>Header: Addresses</b>
hdrText	Text	*			<b>Header: Texts</b>
hdrReference	Reference	*			<b>Header: References</b>
hdrPricing	Pricing	*		D	<b>Header: Pricing</b>
hdrPayment	Payment	3*			<b>Header: Terms of payment</b>

The document header contains all important references of the document.

#### Explanation of mandatory details:

- 1 The location for Inco Terms has to be specified as soon as the delivery term requires it.
- 2 The weight unit has to be specified as soon as the gross weight and/or the net weight are specified.
- 3 The volume unit has to be specified as soon as the volume is specified.

### 3.7 Frame element `hdrDocNo` – Header: Document numbers

Element	Type	Rec	M.	Key	Mod	Description
hdrDocNo	DocNo	*				<b>Header: Document numbers</b>
Subelement	Type	Rec	M.	Key	Mod	Description
vDocNoType	DocNoType	1	X			<b>Type of document number</b>
vDocNo	DocNo	1	X			<b>Document number</b>

This frame element contains the document numbers of the previous documents in the sequence of the business case and/or additional documents as a reference to the order change.

As needed, specific items in other documents can be referenced in frame element `itmDocNo`.

The indication of the order change number itself as well as of the number of the direct preceding document is not permitted here because they already are specified in frame element `docHeader` (element `vOrderChangeNo` resp. `vPrecedingDocNo`).

### 3.8 Frame element `hdrDateTime` – Header: Date and time details

Element	Type	Rec	M.	Key	Mod	Description
hdrDateTime	DateTime	1+	X	!		<b>Header: Date and time details</b>



hdrContact	Contact	*			Header: Contacts
------------	---------	---	--	--	------------------

If no ship-to party address (SH) is specified, the address of the sold-to party (SO) or the address of the master data of the supplier is used.

The business partner must define if the given shipping address is a differing shipping address that is possibly conditioned differently than the shipment address(es) agreed on. As indicators, e.g. the address number or the organization type TRZ transport zone can be used. The former would be defined by the master data, the latter by transport zones. (e.g. 1 = zone 1 means no freight costs; 2 = zone 2 means freight costs of 100,00 and will be reflected in the pricing Pricing etc.)

In general, especially the addresses of the sold-to party (SO) and the supplier (SU) are known by both business partners and saved as master data. They need not necessarily be transferred, they correspond to the customer number or supplier number of the document header (docHeader).

If applicable, the contact responsible for the order is transmitted with an address.

### 3.11 Frame element hdrCom – Header: Communication

Element	Type	Rec	M.	Key	Mod	Description
hdrCom	Com	*		!		Header: Communication
<b>Subelement</b>						
vComType	ComType	1	X	!		Type of communication
	Attribute					
	aScopeInfo		X	!		Scope of information
vComValue	Value	1	X			Value of communication

For specifying a phone number, fax number, e-mail-address etc. appendant to the address and/or the contact.

### 3.12 Frame element hdrContact – Header: Contacts

Element	Type	Rec	M.	Key	Mod	Description
hdrContact	Contact	*				Header: Contacts
<b>Subelement</b>						
vContactType	ContactType	1	X			Type of contact
vContactNumber	Value	1				Contact number
vTitle	Value	1				Title
vFirstName	FirstName	1				First name
vLastName	LastName	1	X			Last name
hdrCom	Com	*				Header: Communication

For specifying contacts, that are required for processing the concerning business case or are organizationally assigned to it (e.g. one or more sales persons regarding commissions).

### 3.13 Frame element hdrText – Header: Texts

Element	Type	Rec	M.	Key	Mod	Description
hdrText	Text	*		!		Header: Texts
<b>Subelement</b>						
	Type	Rec	M.	Key	Mod	Description

vTextType	TextType	1	X	!		Type of text
vTextLanguage	TextLanguage	1	X	!		Language of text
vTextContent	TextContent	1+	X			Content of text

### 3.14 Frame element hdrReference – Header: References

Element	Type	Rec	M.	Key	Mod	Description
hdrReference	Reference	*				Header: References

Subelement	Type	Rec	M.	Key	Mod	Description
vReferenceType	ReferenceType	1	X			Type of reference
vReferenceValue	Value	1	X			Value of reference
vReferenceDesc	Value	1	X			Description of reference (language of document)

If attachments of an OEX document are sent in an e-mail, they have to be indicated accordingly. This enables the application to allocate different attachments to the corresponding OEX document and if necessary to process them.

Example of usage:  
Internet link (LNK) to a tracking system  
"http://www.harrison-office.com/orderstatus.html?p=1213131"

### 3.15 Frame element hdrPricing – Header: Pricing

Element	Type	Rec	M.	Key	Mod	Description
hdrPricing	Pricing	*			D	Header: Pricing

Subelement	Type	Rec	M.	Key	Mod	Description
vConditionType	ConditionType	1	X			Type of condition
vConditionValue	ConditionValue	1	X			Value of condition
vConditionRate	ConditionRate	1				Rate of condition
vCondCurrency	CondCurrency	1				Currency of condition
vConditionText	ConditionText	1				Description of condition (language of document)

In this frame element the net total (purchase) of the document items of an order change (TNET, resp. TNEH) is specified (mandatory). This is used as check-sum during processing of the document.

Further details such as discounts are optional, but can be used for control at the processing. In addition, sales prices can be returned for countercheck.

Unless otherwise stated, the condition currency is pre-defined by the document currency.

Note: In contrast to the price details on order item level the sub elements for price unit and quantity unit in this frame element have been omitted, because here it's always about total (sum) conditions.

Example 1 – Specification of the net value of the order change:

Net value of order change item 1 is \$ 100,00  
Net value of order change item 2 is \$ 150,00

```

<hdrPricing aCondNo="1">
  <vConditionType aCondArea="P">TNET</vConditionType>
  <vConditionValue>250.00</vConditionValue>
  <vCondCurrency>USD</vCondCurrency>
</hdrPricing>
```

Example 2 – Specification of further conditions as total of the order change items:

Gross value of order item 1 is \$ 125,00

Discount rate of order item 1 is 20% as basic discount

Net value of order item 1 is \$ 100,00

Gross value of order item 2 is \$ 200,00

Discount rate of order item 2 is 25% as basic discount

Net value of order item 2 is \$ 150,00

In addition to this also the net value (sales) of the precedent order confirmation is quoted, which should usually match the net value (purchase) of the order change.

```

<hdrPricing aCondNo="1">
  <vConditionType aCondArea="P">TGRO</vConditionType>
  <vConditionValue>325.00</vConditionValue>
  <vCondCurrency>USD</vCondCurrency>
</hdrPricing>
<hdrPricing aCondNo="2">
  <vConditionType aCondArea="P" aCondRef="1" aTypeDis="BD" aCondSign="-">DISI</vConditionType>
  <vConditionValue>75.00</vConditionValue>
  <vCondCurrency>USD</vCondCurrency>
  <vConditionText>Basic discount</vConditionText>
</hdrPricing>
<hdrPricing aCondNo="3">
  <vConditionType aCondArea="P">TNET</vConditionType>
  <vConditionValue>250.00</vConditionValue>
  <vCondCurrency>USD</vCondCurrency>
</hdrPricing>
<hdrPricing aCondNo="4">
  <vConditionType aCondArea="S">TNET</vConditionType>
  <vConditionValue>250.00</vConditionValue>
  <vCondCurrency>USD</vCondCurrency>
</hdrPricing>

```

The discounts are indicated as absolute total values resulting from the items with the same discount type (aTypeDis).

### 3.16 Frame element **hdrPayment** – Header: Terms of payment

Element	Type	Rec	M.	Key	Mod	Description
hdrPayment	Payment	3*		!		Header: Terms of payment

Subelement	Type	Rec	M.	Key	Mod	Description
vPaymentPart	PaymentPart	1	X	!		Part of payment term
vPaymentRate	PaymentRate	1	X			Discount rate (%)
vPaymentDays	PaymentDays	1	X			Number of days (payment target)

### 3.17 Frame element docArticleItem – Document item: Article

Element	Type	Rec	M.	Key	Mod	Description
docArticleItem	Item	1+	X	!	D	Document item: Article
	Attribute					
	aItemNo		X	!		Consecutive number of document item
	aAction		X		D	Action
	aUUID		X			Universally Unique Identifier
	aIsPseudo					Does the item represent a pseudo article?

Subelement	Type	Rec	M.	Key	Mod	Description
vPrecDocItemNo	DocItemNo	1	X			<b>Number of item in preceding document</b> <i>The (direct) preceding document is specified in the document header.</i>
vOrdChgItemNumber	DocItemNo	1	X			<b>Order change item number</b> <i>Unique order item number in an order change.</i>
vOrdChgTopLevelNo	DocItemNo	1				<b>Number of higher level order change item</b>
vOrdChgCompNo	DocItemNo	1	3			<b>Number of order change item of the composite article</b> <i>This reference defines that the article is automatically created by the composite article.</i>
vOrdChgSubArtId	CompSubArtId	1	3			<b>Identification of the sub article for the order change item</b> <i>The ID is assigned by the composite article.</i>
vOrdChgAddStateCd	AddStateCode	1				<b>Additional state information of the order change item</b>
vOrdChgAddStateCd2	AddStateCode	1				<b>Additional state information for encapsulated OFML instance</b>
vClientArticleNo	ClientArtNo	1				<b>Article number of client</b>
vVendorArticleNo	VendorArtNo	1	X			<b>Article number of vendor (supplier)</b>
vVendorID	VendorID	1	X			<b>Vendor ID</b>
vVendorSeries	VendorSeries	1	X			<b>Vendor Series</b>
vCatalogId	CatalogId	1				<b>Catalog ID</b>
vArticleEAN	EAN_Article	1				<b>EAN of article</b>
vOrdChgQuantity	Quantity	1	X			<b>Order quantity</b>
vOrdChgUnit	QuantUnit	1	X			<b>Order unit</b>
vGrossWeight	GrossWeight	1	1			<b>Gross weight (total)</b>
vNetWeight	NetWeight	1	1			<b>Net weight (total)</b>
vUnitWeight	UnitWeight	1	1			<b>Weight unit</b>
vVolume	Volume	1	2			<b>Volume (total)</b>
vUnitVolume	UnitVolume	1	2			<b>Volume unit</b>
vClassification	Classification	*				<b>Class/category of order item</b>

<b>itmConfiguration</b>	Config	*				<b>Item: Configuration details</b>
<b>itmDocNo</b>	DocNo	*				<b>Item: Document numbers</b>
<b>itmDateTime</b>	DateTime	*				<b>Item: Date and time details</b>
<b>itmOrgData</b>	OrgData	*				<b>Item: Organizational data</b>
<b>itmAddress</b>	Address	*				<b>Item: Addresses</b>
<b>itmText</b>	Text	1+	X			<b>Item: Texts</b>
<b>itmReference</b>	Reference	*				<b>Item: References</b>
<b>itmPricing</b>	Pricing	*				<b>Item: Pricing</b>

Basic data of order change item.

If a change was made to at least one sub element compared to the preceding document (see document header), value M must be specified for attribute aAction. For the modified sub elements, the attribute must be set accordingly. If there were no changes, attribute aAction can be omitted or value N must be specified.

Due to the interaction of the item number (`vOrdChgItemNumber`) and the number of the higher-level item (`vOrdChgTopLevelNo`) a hierarchy structure (e.g. including sub articles) can be displayed. By referring to a higher-level item of type `docFolderItem`, also folder structures can be displayed.

Specific item numbers, such as "100.A.10-1", can be transmitted by the organization data POS. However, to which extent another application can process those, return them or even use them for itself, remains unsettled.

The additional state information for the encapsulated OFML instance (`vOrdChgAddStateCd2`) is required if the instance that represents the article is encapsulated by a Meta type instance and shares a position with it. (The code for the Meta type instance then must be specified in `vOrdChgAddStateCd`.)

#### Explanation of mandatory details:

- 1 The **Weight unit** has to be specified as soon as the **Gross weight** and/or the **Net weight** are specified.
- 2 The **Volume unit** has to be specified as soon as the **Volume** is specified.
- 3 The **Identification of the sub article for the order change item** can only be specified if the **Number of order change item of the composite article** is specified.

At least the short text of a standard article must be specified. A long text can be omitted in this case. This is different for modified articles and custom articles (compare global OEX value type `VendorArtNo` → aStatus).

### 3.18 Frame element docSetItem – Document item: Set article

Element	Type	Rec	M.	Key	Mod	Description
<b>docSetItem</b>	<b>Item</b>	*		!	D	<b>Document item: Set article</b>
	<b>Attribute</b>					
	aItemNo	X	!			Consecutive number of document item
	aAction	X			D	Action
	aUUID	X				Universally Unique Identifier

Subelement	Type	Rec	M.	Key	Mod	Description
<b>vPrecDocItemNo</b>	DocItemNo	1	X			<b>Number of item in preceding document</b>
						<i>The (direct) preceding document is specified in the document header.</i>
<b>vOrdChgItemNumber</b>	DocItemNo	1	X			<b>Order change item number</b> <i>Unique order item number in an order change.</i>

<b>vOrdChgTopLevelNo</b>	<b>DocItemNo</b>	<b>1</b>			<b>Number of higher level order change item</b>
<b>vClientArticleNo</b>	<b>ClientArtNo</b>	<b>1</b>			<b>Article number of client</b>
<b>vVendorArticleNo</b>	<b>VendorArtNo</b>	<b>1</b>	<b>1</b>		<b>Article number of vendor (supplier)</b>
<b>vVendorID</b>	<b>VendorID</b>	<b>1</b>			<b>Vendor ID</b>
<b>vVendorSeries</b>	<b>VendorSeries</b>	<b>1</b>			<b>Vendor Series</b>
<b>vOrdChgQuantity</b>	<b>Quantity</b>	<b>1</b>	<b>X</b>		<b>Order quantity</b>
<b>vOrdChgUnit</b>	<b>QuantUnit</b>	<b>1</b>	<b>X</b>		<b>Order unit</b>
<b>itmDocNo</b>	<b>DocNo</b>	<b>*</b>			<b>Item: Document numbers</b>
<b>itmOrgData</b>	<b>OrgData</b>	<b>*</b>			<b>Item: Organizational data</b>
<b>itmText</b>	<b>Text</b>	<b>*</b>	<b>1</b>		<b>Item: Texts</b>
<b>itmReference</b>	<b>Reference</b>	<b>*</b>			<b>Item: References</b>
<b>itmPricing</b>	<b>Pricing</b>	<b>*</b>			<b>Item: Pricing</b>

A set article summarizes several articles (sub items) into one position. The price of a set article is automatically calculated according to the articles contained in it (including quantities and discounts) and according to the quantity of the set article. If the set position contains **itmPricing** sub elements, these only serve for information, i.e., the prices indicated there are not part of the price calculation at header level (document).

For the use of attribute **aAction** and of the item numbers, see frame element **docArticleItem**.

#### Explanation of mandatory details:

- 1 If no **vendor article number** is specified, the **article short text** has to be specified (sub element **itmText**).

### 3.19 Frame element **docFolderItem** – Document item: Folder

<b>Element</b>	<b>Type</b>	<b>Rec</b>	<b>M.</b>	<b>Key</b>	<b>Mod</b>	<b>Description</b>
<b>docFolderItem</b>	<b>Item</b>	*		!	D	<b>Document item: Folder</b>
	<b>Attribut</b>				D	
	<b>aItemNo</b>		X	!		Consecutive number of document item
	<b>aAction</b>		X		D	Action
	<b>aUUID</b>		X			Universally Unique Identifier

<b>Subelement</b>	<b>Type</b>	<b>Rec</b>	<b>M.</b>	<b>Key</b>	<b>Mod</b>	<b>Description</b>
<b>vPrecDocItemNo</b>	<b>DocItemNo</b>	<b>1</b>				<b>Number of item in preceding document</b> <i>The preceding document is specified in the document header.</i>
<b>vOrdChgItemNumber</b>	<b>DocItemNo</b>	<b>1</b>	<b>X</b>			<b>Order change item number</b> <i>Unique order item number (within the order).</i>
<b>vOrdChgTopLevelNo</b>	<b>DocItemNo</b>	<b>1</b>				<b>Number of higher level order change item</b>
<b>vFolderName</b>	<b>Value</b>	<b>1</b>	<b>X</b>			<b>Name of folder</b> <i>(in language of document)</i>
<b>vFolderIsLOC</b>	<b>FolderIsLOC</b>	<b>1</b>				<b>Is the folder name an indication of location?</b>
<b>itmText</b>	<b>Text</b>	*				<b>Position: Texts</b>
<b>itmReference</b>	<b>Reference</b>	*				<b>Position: References</b>

For the use of attribute **aAction** and of the item numbers, see frame element **docArticleItem**.

If the application that creates the document allows the user to explicitly mark the folder name (vFolderName) as a location description (room text), the folder name should be transferred in the element vFolderIsLOC. In the case of Y (yes), the folder name should then also be transferred within sub elements of type docArticleItem and docSetItem in a itmOrgData element with OrgDataType LOC. (This may facilitate processing in receiving systems that manage room texts for article items)

### 3.20 Frame element docTextItem – Document item: Texts

Element	Type	Rec	M.	Key	Mod	Description
docTextItem	Item	*		!	D	Document item: Text
	Attribut				D	
	aItemNo		X	!		Consecutive number of document item
	aAction		X		D	Action
	aUUID		X			Universally Unique Identifier

Subelement	Type	Rec	M.	Key	Mod	Description
vPrecDocItemNo	DocItemNo	1				<b>Number of item in preceding document</b> <i>The preceding document is specified in the document header.</i>
vOrdChgItemNumber	DocItemNo	1	X			<b>Order change item number</b> <i>Unique order item number (within the order).</i>
vOrdChgTopLevelNo	DocItemNo	1				<b>Number of higher level order change item</b>
vItemName	Value	1	X			<b>Name of item</b> <i>(in language of document)</i>
itmText	Text	*				<b>Position: Texts</b>

For the use of attribute aAction and of the item numbers, see frame element docArticleItem.

### 3.21 Frame element itmConfiguration – Item: Configuration details

Element	Type	Rec	M.	Key	Mod	Description
itmConfiguration	Config	*				Item: Configuration details
Subelement	Type	Rec	M.	Key	Mod	Description
vClassID	Value	1				<b>Class ID</b>
vOptionID	Value	1	X			<b>Option</b>
vOptionEAN	EAN_Option	1				<b>EAN of Option ID</b>
vValueID	Value	1	X			<b>Value ID</b>
vValueEAN	EAN_Value	1				<b>EAN of Value ID</b>
itmConfigText	ConfigText	*				<b>Item: Configuration texts</b>



This frame element is only used, if its details differ from the data of the superior header frame element **hdrOrgData** or if it is containing additional information relevant for the document item.

### 3.26 Frame element **itmAddress** – Item: Addresses

Element	Type	Rec	M.	Key	Mod	Description
<b>itmAddress</b>	Address	*		!		Item: Addresses
Subelement	Type	Rec	M.	Key	Mod	Description
<b>vAddressType</b>	AddressType	1	X	!		Type of address
<b>vAddressNumber</b>	Value	1				Address number
<b>vAddressID</b>	AddressID	1				Address ID
<b>vTitle</b>	Value	1				Title
<b>vName1</b>	Name1	1	X			Name 1
<b>vName2</b>	Name2	1				Name 2
<b>vName3</b>	Name3	1				Name 3
<b>vName4</b>	Name4	1				Name 4
<b>vStreet</b>	Street	1	X			Street
<b>vStreetNo</b>	Value	1				Street number
<b>vStreet2</b>	Street2	1				Street 2
<b>vCountryCode</b>	CountryCode	1	X			Country code
<b>vPostalCode</b>	PostalCode	1	X			Postal code
<b>vLocation</b>	Location	1	X			Location (city)
<b>vDistrict</b>	District	1				District
<b>vCountyCode</b>	CountyCode	1				County/district/state
<b>vPostalCodePOBox</b>	PostalCodePOB	1				Postal code of P.O. Box
<b>vPOBox</b>	Value	1				P.O. Box (post-office box)
<b>vTaxCode</b>	Value	1				Tax number at tax office/authorities
<b>vTaxCodeEU</b>	Value	1				Sales tax identification number (EU)
<b>vTaxCodeUSA</b>	Value	1				Sales tax code USA / Jurisdiction
<b>itmCom</b>	Com	*				Item: Communication
<b>itmContact</b>	Contact	*				Item: Contacts

This frame element is only used, if its details differ from the data of the superior header frame element **hdrAddress** or if it is containing additional information relevant for the document item.

### 3.27 Frame element **itmCom** – Item: Communication

Element	Type	Rec	Ma	Key	Mod	Description
<b>itmCom</b>	Com	*		!		Item: Communication
Subelement	Type	Rec	M.	Key	Mod	Description
<b>vComType</b>	ComType	1	X	!		Type of communication
	<b>Attribut</b>					
	aScopeInfo		X	!		Scope of information
<b>vComValue</b>	Value	1	X			Value of communication

This frame element is only used, if its details differ from the data of the superior header frame element **hdrAddress** or if it is containing additional information relevant for the document item.

### 3.28 Frame element `itmContact` – Item: Contacts

Element	Type	Rec	M.	Key	Mod	Description
<code>itmContact</code>	Contact	*				Item: Contacts
Subelement	Type	Rec	M.	Key	Mod	Description
<code>vContactType</code>	ContactType	1	X			Type of contact
<code>vContactNumber</code>	Value	1				Contact number
<code>vTitle</code>	Value	1				Title
<code>vFirstName</code>	FirstName	1				First name
<code>vLastName</code>	LastName	1	X			Last name
<code>itmCom</code>	Com	*				Item: Communication

This frame element is only used, if its details differ from the data of the superior header frame element `hdrAddress` or if it is containing additional information relevant for the document item.

### 3.29 Frame element `itmText` – Item: Texts

Element	Type	Rec	M.	Key	Mod	Description
<code>itmText</code>	Text	*		!		Item: Texts
Subelement	Type	Rec	M.	Key	Mod	Description
<code>vTextType</code>	TextType	1	X	!		Type of text
<code>vTextLanguage</code>	TextLanguage	1	X	!		Language of text
<code>vTextContent</code>	TextContent	1+	X			Content of text

### 3.30 Frame element `itmReference` – Item: References

Element	Type	Rec	M.	Key	Mod	Description
<code>itmReference</code>	Reference	*				Item: References
Subelement	Type	Rec	M.	Key	Mod	Description
<code>vReferenceType</code>	ReferenceType	1	X			Type of Reference
<code>vReferenceValue</code>	Value	1	X			Value of Reference
<code>vReferenceDesc</code>	Value	1	X			Description of reference (language of document)

This frame element is only used, if its details differ from the data of the superior header frame element `hdrReference` or if it is containing additional information relevant for the document item.

### 3.31 Frame element itmPricing – Item: Pricing

Element	Type	Rec	M.	Key	Mod	Description
itmPricing	Pricing	*				Item: Pricing
Subelement	Type	Rec	M.	Key	Mod	Description
vConditionType	ConditionType	1	X			Type of condition
vConditionValue	ConditionValue	1	X			Value of condition
vConditionRate	ConditionRate	1				Rate of condition
vCondCurrency	CondCurrency	1				Currency of condition
vConditionText	ConditionText	1				Description of condition (language of document)
vPriceUnit	PriceUnit	1				Price unit
vQuantUnit	QuantUnit	1				Quantity unit

The specification of the net value (purchase) of the order item (TNET) is mandatory. This is used as checksum during processing of the document.

Other details such as discounts are optional, but can also be used as check during processing. In addition, sales prices can be returned for countercheck

Unless otherwise stated here, the condition currency is pre-defined by the document currency.

Unless otherwise stated here, the quantity unit is pre-defined by the order quantity unit (vOrdChgUnit).

#### Example 1 – Specification of the net value (purchase) of the order change item:

Net unit price of order item is \$ 50,00

Order quantity = 2

Order unit = C62

```
<itmPricing aCondNo="1">
  <vConditionType aCondArea="P">TNET</vConditionType>
  <vConditionValue>100.00</vConditionValue>      ! TNET = Order quantity x Net unit price
  <vCondCurrency>USD</vCondCurrency>
</itmPricing>
```

#### Example 2 – Specification of the net value purchase (client) and sales (supplier) of the order change item:

Net unit price of order item is \$ 50,00

Net unit price of the precedent order confirmation item is \$ 50,00

Order quantity = 2

Order unit = C62

```
<itmPricing aCondNo="2">
  <vConditionType aCondArea="P">TNET</vConditionType>  ! TNET = Order quantity x Net unit price
  <vConditionValue>100.00</vConditionValue>
  <vCondCurrency>USD</vCondCurrency>
</itmPricing>
<itmPricing aCondNo="1">
  <vConditionType aCondArea="S">TNET</vConditionType>  ! TNET = Order quantity x Net unit price
  <vConditionValue>100.00</vConditionValue>
  <vCondCurrency>USD</vCondCurrency>
</itmPricing>
```

Example 3 – Specification of several conditions of the order change item:

Gross unit price of order item is \$ 50,00 and tax code 1, 19%

Discount (as basic discount) of 20% from gross unit price

Discount (as showroom discount) of 5% from the already discounted price

Order quantity = 2

Order unit = C62

19% VAT

Quoting values of the preceding order confirmation (sales)

```
<itmPricing aCondNo="1">
    <vConditionType aCondArea="P">SGRO</vConditionType>
    <vConditionValue>50 . 00</vConditionValue>
    <vCondCurrency>EUR</vCondCurrency>
    <vPriceUnit>1</vPriceUnit>
    <vQuantUnit>C62</vQuantUnit>
</itmPricing>
<itmPricing aCondNo="2">
    <vConditionType aCondArea="P" aCondRef="1" aTypeDis="BD" aCondSign="-">DISI</vConditionType>
    <vConditionValue>10 . 00</vConditionValue>
    <vConditionRate>20 . 00</vConditionRate>
    <vCondCurrency>EUR</vCondCurrency>
    <vConditionText>Basic discount</vConditionText>
    <vPriceUnit>1</vPriceUnit>
    <vQuantUnit>C62</vQuantUnit>
</itmPricing>
<itmPricing aCondNo="3">
    <vConditionType aCondArea="P" aCondRef="2" aTypeDis="D1" aCondSign="-">DISI</vConditionType>
    <vConditionValue>2 . 00</vConditionValue>
    <vConditionRate>5 . 00</vConditionRate>
    <vCondCurrency>EUR</vCondCurrency>
    <vConditionText>Showroom discount</vConditionText>
    <vPriceUnit>1</vPriceUnit>
    <vQuantUnit>C62</vQuantUnit>
</itmPricing>
<itmPricing aCondNo="4">
    <vConditionType aCondArea="P">SNET</vConditionType>
    <vConditionValue>38 . 00</vConditionValue>
    <vCondCurrency>EUR</vCondCurrency>
    <vPriceUnit>1</vPriceUnit>
    <vQuantUnit>C62</vQuantUnit>
</itmPricing>
# Here, the order quantity of 2 pieces takes effect: TNET = SNET x 2
<itmPricing aCondNo="5">
    <vConditionType aCondArea="P">TNET</vConditionType>
    <vConditionValue>76 . 00</vConditionValue>
    <vCondCurrency>EUR</vCondCurrency>
</itmPricing>
<itmPricing aCondNo="6">
    <vConditionType aCondArea="P" aTaxCode="1">TTNE</vConditionType>
    <vConditionValue>76 . 00</vConditionValue>
    <vCondCurrency>EUR</vCondCurrency>
</itmPricing>
<itmPricing aCondNo="7">
    <vConditionType aCondArea="P" aCondRef="6" aTaxCode="1">TTAX</vConditionType>
    <vConditionValue>14 . 44</vConditionValue>
    <vConditionRate>19 . 00</vConditionRate>
    <vCondCurrency>EUR</vCondCurrency>
</itmPricing>
# additional indication of the values of the previous order confirmation
<itmPricing aCondNo="8">
    <vConditionType aCondArea="S">SNET</vConditionType>
    <vConditionValue>38 . 00</vConditionValue>
    <vCondCurrency>EUR</vCondCurrency>
    <vPriceUnit>1</vPriceUnit>
    <vQuantUnit>C62</vQuantUnit>
</itmPricing>
<itmPricing aCondNo="9">
    <vConditionType aCondArea="S">TNET</vConditionType>
    <vConditionValue>76 . 00</vConditionValue>
    <vCondCurrency>EUR</vCondCurrency>
</itmPricing>
```

## 4 Appendix

### 4.1 History of modification

Version	Modification
3.1.0 – May 8, 2023	<ul style="list-style-type: none"> <li>▪ Minor changes and extensions in the introduction</li> <li>▪ Clarifications in the frame elements <code>hdrPricing</code> (Header: Pricing) and <code>itmPricing</code> (Item: Pricing)</li> <li>▪ New attribute <code>aIsPseudo</code> in frame element <code>docArticleItem</code></li> <li>▪ New sub element <code>itmOrgData</code> in frame element <code>docSetItem</code>.</li> <li>▪ Added element <code>vFolderIsLOC</code> in frame element <code>docFolderItem</code> plus recommendation to transfer room texts in sub elements in an <code>itmOrgData</code> element with <code>OrgDataType LOC</code></li> </ul>
3.0.0 – 30.11.2017	<ul style="list-style-type: none"> <li>▪ Global changes according to specification GLOBAL 3.0.0</li> <li>▪ Changes in the structure of this specification</li> <li>▪ Frame element <code>oexDocument</code> (Single document): Clarification on the use of attribute <code>aAction</code></li> <li>▪ Frame element <code>docHeader</code>: Element <code>vOrderChangeNo</code> now has type <code>DocNo</code>. Element <code>vOrderNumber</code> has been replaced by new elements <code>vPrecedingDocType</code> and <code>vPrecedingDocNo</code> indicating the (immediate) preceding document.</li> <li>▪ Frame element <code>hdrDocNo</code>: The number (ID) of the immediate preceding document may no longer be specified here.</li> <li>▪ Frame element <code>docItem</code> renamed <code>docArticleItem</code>.</li> <li>▪ Frame element <code>docArticleItem</code>: new element <code>vPrecDocItemNo</code> for the number of the item in the preceding document. Following elements removed: <code>vOrderItemNumber</code>, <code>vOrderTopLevelNo</code>, <code>vOrderComposNo</code>, <code>vOrderSubArtId</code>, <code>vOrderAddStateCd</code>, <code>vOrderQuantity</code> and <code>vOrderUnit</code>.</li> <li>▪ Frame element <code>docArticleItem</code>: new (optional) element <code>vOrdChgAddStateCd2</code> for additional state code for possibly encapsulated OFML instance.</li> <li>▪ Frame element <code>docArticleItem</code>: element <code>vClientArticleNo</code> now has type <code>ClientArtNo</code> (was <code>value</code>).</li> <li>▪ New frame elements <code>docFolderItem</code> (Document item: Folder), <code>docTextItem</code> (Document item: Text) and <code>docSetItem</code> (Document item: Set article).</li> </ul>
2.3.1 – 13.1.2017	<ul style="list-style-type: none"> <li>▪ Correction: element <code>vOrderChangeNo</code> (order change number) in frame element <code>docHeader</code> (2.8 Document header) was substituted for <code>vOrderConfirmNo</code>.</li> </ul>
2.3.0 – 1.7.2015	<ul style="list-style-type: none"> <li>▪ Global changes according to specification GLOBAL 2.3.0</li> <li>▪ Introduced new optional element <code>vClassification</code> in frame element <code>docItem</code> (2.19 Document item) for universal specification of categories or classes.</li> </ul>
2.2.0 – 11.10.2013	<ul style="list-style-type: none"> <li>▪ Global changes according to specification GLOBAL 2.2.0</li> <li>▪ Introduced new optional elements in frame element <code>docHeader</code> (2.8 Document header) for client ID, client classification, supplier ID and supplier classification: <code>vClientID</code>, <code>vClientClass</code>, <code>vSupplierID</code> and <code>vSupplierClass</code>. (Elements <code>vClientILN</code> and <code>vVendorILN</code> were replaced by <code>vClientID</code> resp. <code>vSupplierID</code>).</li> <li>▪ Introduced new optional elements in frame elements <code>hdrAddress</code> (2.12 Header: Addresses) and <code>itmAddress</code> (2.25 Item: Addresses) for street 2 und district: <code>vStreet2</code> and <code>vDistrict</code>. (Element <code>vAddressILN</code> was replaced by <code>vAddressID</code>).</li> <li>▪ Introduced new optional elements in frame element <code>docItem</code> (2.19 Document item) for identification of sub article and additional state information (each for the order item and the order confirmation item) as well as for catalog ID: <code>vOrderSubArtId</code> resp. <code>vOrdConfSubArtId</code>, <code>vOrderAddStateCd</code> resp. <code>vOrdConfAddStateCd</code> and <code>vCatalogId</code></li> </ul>
2.1.0 – 09.02.2010	Initial English version