

openTRANS[®] Version 2.1

02.10.2009

INVOICELIST

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Firms and individuals involved in the development of openTRANS®

Since publication of openTRANS® version 1.0 in september 2001 many change-, extension- and improvement-requests reached us. Thought has been given to these requests in the development of openTRANS® 2.0 and openTRANS® 2.1. At this point the openTRANS® authors want to thank all the people who have contributed to a better performance and quality of the standard. Many thanks to Stefan Fröhlich, epaxios.com, for the extended Review of the standard and the detailed feedback. In addition to the contributors to the development of BMEcat® up to version 2005 and openTRANS® version 1.0 we want to thank particularly the group of participants who supported us at the openTRANS®-Development-Workshops (in alphabetical order by company-name):

- Mr. Gerd Puf, Adulo GmbH
- Mr. Reinhard Nachtsheim, AlphaPlus Trusted Services GmbH
- Mr. Ralph Höppner, businessMart AG
- Mr. Stefan Schäufole, businessMart AG
- Mr. Michael Deckert, BDS GmbH
- Mr. Thomas Kuckartz, Cantor Software GmbH
- Mr. Marc Linker, Cantor Software GmbH
- Mr. Dieter Laukemann - DATEV eG
- Mr. Asmus Hammer, eBanking Services Nord GmbH
- Mr. Thomas Renner, Fraunhofer IAO
- Mr. Nico Weiner, Fraunhofer IAO
- Mr. Oliver Kindermann, Inoutic/Deceunick GmbH
- Mr. Jörg Glaser, ServiCon Service & Consult EG
- Mr. Helmut Halter, VBH Deutschland GmbH
- Mr. Herbert Sauermann, VBH Deutschland GmbH
- Mr. Donald Müller-Judex, XimantiX GmbH
- Dr. Jörg-Ulrich Wölfel, XimantiX GmbH
- Dr. Oliver Kelkar, MHP mbH

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1 Introduction

1.1 Overview

The openTRANS[®] format was developed with the aim of providing uniform electronic documents for business-to-business es-commerce. Based on the BMEcat[®] Standard for the electronic exchange of product data, standardized business documents such as order, delivery notes, invoices, etc. can be exchanged between the business partners and electronic marketplaces. This specification addresses users and developers of the openTRANS[®]-standard. The related openTRANS[®]-Schema is only valid in combination with this document. This takes effect especially for multilingual elements which can be defined as *unbounded* in the openTRANS[®]-schema and *single* in this document (e.g. **CONTACT_NAME**). This is for compatibility reasons in case of more than one language in one(!) openTRANS[®]-file.

The openTRANS[®]-standard does not give information related to the transaction processes. It is up to the business partners to agree on which documents they use and how they implement the exchange of the documents.

The following business documents are specified in this document:

- **RFQ** (Request for quotation)
- **QUOTATION** (Quotation)
- **ORDER** (Order)
- **ORDERCHANGE** (Change of order)
- **ORDERRESPONSE** (Confirmation of the order)
- **DISPATCHNOTIFICATION** (Notification of dispatch)
- **RECEIPTACKNOWLEDGEMENT** (Acknowledgement of receipt of goods)
- **INVOICE** (Invoice)
- **INVOICELIST** (Collective invoice)
- **REMITTANCEADVICE** (Notification of remittance)

Additionally there is the possibility to use the credit memo as a special kind of an invoice (Attention: this might be valid only for german credit memos).

1.2 Use of XML

The openTRANS[®] business document data is stored as "eXtensible Markup Language" (XML) code. XML is a W3C recommendation (see www.w3.org) and a de-facto standard. XML allows structures and data to be coded simultaneously, in contrast with traditional methods such as comma-separated lists, for instance. The XML schema belonging to the openTRANS[®] standard are published in a separate, accompanying document.

1.3 Supplementary activities and standards

The BMEcat[®] Standard, which has been in existence since November 1999, describes an exchange format for electronic product catalogs. They constitute the range on offer in business-tobusiness e-commerce. The interaction of the business partners is described by the openTRANS[®] business documents.

The openTRANS[®]- business documents are being developed in partnership with BMEcat[®]-.

1.4 Implementation support

Fraunhofer IAO, the University of Essen BLI and various partners of the eBusiness Standardization Committee can provide consulting support for implementing the openTRANS[®] Standard. All inquiries in this respect or concerning the specification should be addressed directly to the authors of the openTRANS[®] standard: authors@opentrans.org

Additional information can also be found under <http://www.opentrans.org>.

1.5 Website www.opentrans.org

On the webpage <http://www.opentrans.org> the following release-related informations are published in

german and english language:

- Download of the specifications in different formats (.chm and .pdf)
- Download of the specifications as XML-Schema
- Download of examples

Via the webpage you can submit errors and change-requests and known errors and solutions are published.

On the webpage you can find informations on how the development can be supported.

2 Specification

2.1 Terminology

In order to understand this document the following chapter describes the used terms and definitions preconditioned in this specification.

business document

A business document in the sense of business transactions is an openTRANS[®]-document like an invoice or an order.

business transaction

A business transaction is the transmission of a business document between two business parties (the sender and acceptor). For example the transmission of an order done by a purchaser to the supplier is an transaction.

business process

A business process is usually a process related to a value adding task in a company. In the case of openTRANS-transactions a business process is a sequence of one, but usually more transactions. That means it is related to the exchange of more than one business document. One example is the procurement-process in the following transaction-sequence:

```
supplier <-- ORDER -- Purchaser
supplier -- ORDERRESPONSE --> Purchaser
supplier -- DISPATCHNOTIFICATION --> Purchaser
supplier <-- RECEIPTACKNOWLEDGEMENT -- Purchaser
supplier -- INVOICE --> Purchaser
supplier <-- REMITTANCEADVICE -- Purchaser
```

2.2 Structure of the specification

The documentation of the openTRANS[®] standard is made up of various documents. Each business document is described in a specification-document. The whole standard is complemented by the technical and formal specification in form of a XML-Schema document and example files.

In order to make navigation within the document easier, relevant key terms such as element names are cross-referenced, making it possible to jump directly to that part of the document in which this key term is explained in more detail. In order to make the cross-references easier to find, they are highlighted in green.

Where more detailed information on various areas is available on the Internet, this is indicated by the blue underlined hyperlinks which make it possible to jump directly to the relevant URL.

The main part of the specification is described in the **Element Library**. This Section constitutes a collection of all elements used in the related business document. In addition, an **Alphabetical Index** of the elements is to be found at the end of the specification which is intended to make it easier to find elements alphabetically sorted. This index, like the **Table of Contents**, contains cross-references which lead directly to the elements.

The appendix is divided in three modules: The index of data type describes all used data type like primitive data type but also special ones. The history of changes outlines the changes of elements in alphabetical sorting. Finally you can find two more lists of all used elements in real document-ordering and the index in alphabetical sorting.

2.3 Description of elements

Each element is described according to the same schema. The description of the elements is divided into the following points:

- **element name**,
- the **title of the element** used in the xml-documents;
- a **description** explaining the function and significance of the element;
- a **diagram** demonstrating the sub-elements and their structure;

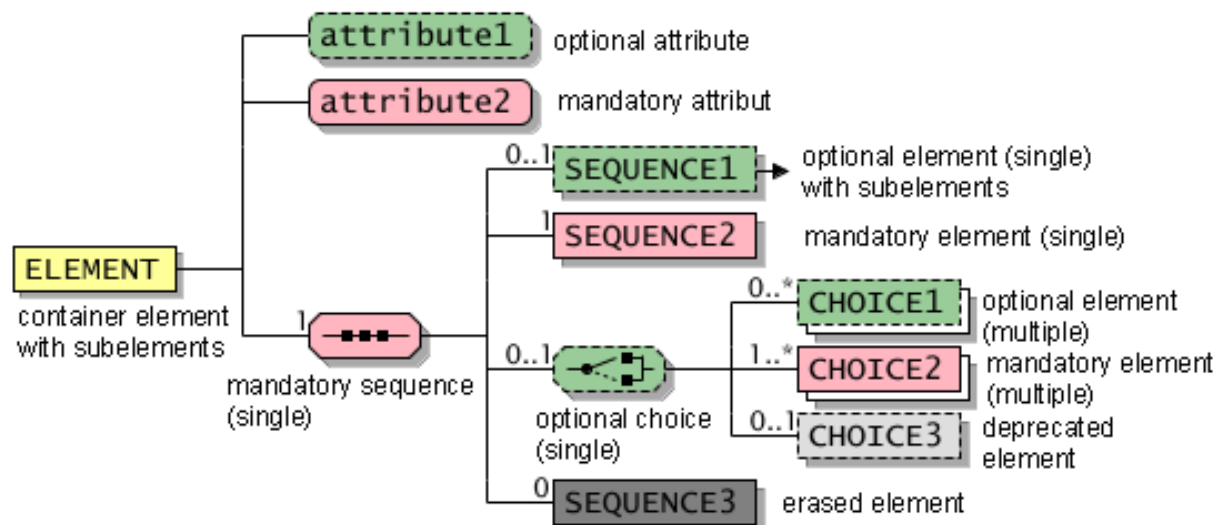





Figure 2-1: Visualization of elements and sub-elements

The element being described always appears on the left page and the subelements appear, one below the other, on the right page. Elements are shown in a rectangular box, whereas attributes are shown in a round-box. Sub-elements shown in a red color is mandatory, green respectively a bright color indicates an optional element (see also chapter **"Must" and "Can" fields**). Deprecated elements (which can be used but their use is not recommended) are shown with bright grey coloring. Elements which are not anymore allowed are shown in dark grey. The symbols within the elements have the following meaning:

- "0...1" and a dashed border indicates an optional element that can appear, but it is also possible that it will not appear at all;
- "1" and a continuous border indicate that the element must appear exactly one time;
- "0...x" and a dashed border indicate that the element can appear 0 up to x-times, a * instead of x indicates that number of appearances of the element is not restricted;
- "1...x" and a continuous border indicate at least one appearance of the element, but it can appear up to x-times, a * instead of x indicates that number of appearances of the element is not restricted;
- the -symbol means that the element can have at least one sub-element, if this symbol is missing the element is a leaf and a datatype must be delivered;
- the -symbol indicates, that one of the sub-elements must appear;
- the -symbol indicates, that the sub-elements appear in the given order (whereas they must not appear if they are optional);
- The table **General** gives a brief description of the following features of each element: the column "Used in" indicates the general elements in which the element described can be used; the column "Default value" indicates the value which will be assumed when the element has not been specified (see also Section **"Must" and "Can" fields**); the column "Data type" indicates – for those elements which have no sub-element – the types of data with which they can be filled; the column "Language-specific" indicates whether or not the field content can vary according to language; the column "Field length" indicates the maximum number of characters with which an element may be filled (see also **Coding in XML**); the column "Alt. in version" indicates the time of the last alteration in order to ensure a sound overview of the version alterations and additions;
- the table **Attributes** provides a list of the attributes used in the element and describes them in the following columns: the column "Designation" contains the term which describes the attribute in, if possible, one word; the column "Attribute name" indicates the system of notation which must be used in the document; the column "Must/Can" indicates whether or not an attribute must be specified each time

an element is used or whether the use is optional (see also Section **"Must" and "Can" fields**); the column "Explanation" specifies the use of the attribute; the columns "Default value", "Data type", "Language-specific", "Field length" and "Alt. in version" are used as indicated in the table "General"; table rows colored in a bright grey indicate attributes which are deleted or deprecated in the next openTRANS®-version; table rows colored in dark grey are elements where the use is already restricted - they appear for the sake of completeness;

- Where a detailed specification is given of the values which an attribute may have, each attribute can be followed by a **table with a list of values**; it should be noted whether this is a list of pre-defined values (i.e. these values are suggested but other values can also be used as determined by the description of the attribute), or whether a list of permitted values is given, which means that only values from this list, and no others, may be used; the column "Attribute value" indicates the values which may or must be entered in the attribute; the columns "Explanation", "Designation" and "Alt. in version" are used as indicated in the table "Attribute";
- In the table **Elements** the sub-elements (and – where these exist – their attributes) of the elements described are listed in order and described in the following columns: the column "Element name" consists of the system of notation which must be used in the business document; where this element itself has no sub-elements, the attributes of the sub-elements are listed in this column; the columns "Designation", "Must/Can", "Default value", "Data type", "Language-specific", "Field length" and "Alt. in version" are used as indicated in the table "Attributes" or the table "General"; table rows colored in a bright grey indicate attributes which are deleted or deprecated in the next openTRANS®-version; table rows colored in dark grey are elements where the use is already restricted - they appear for the sake of completeness;
- An Example closes the description of elements. In the example, the openTRANS® elements appear in black and the variable text or selectable attribute values appear in blue.

The XML-examples demonstrate the use of openTRANS® with sections of a business-document. In some cases elements are not shown with their whole content but only in a schematic way like `<BUYER>...</BUYER>`

The following important symbols are used in the context of element and attribute-descriptions:




symbol	meaning
	Caution: possible source of error
	Please Note: explanatory remark with additional informations
	New since openTRANS® 1.0

Table 2-1: symbols in the openTRANS®-specification

2.4 Must- and Can-fields

The openTRANS® Standard distinguishes between optional and mandatory fields. Mandatory (Must) fields are XML elements which, in an openTRANS®-compliant XML file, must occur within the surrounding context. Optional (Can) fields are XML elements which, in an openTRANS®-compliant XML file may appear within their context. In figures optional fields are colored green, mandatory fields have a red color.

A business document is openTRANS®-compliant when it contains all Must fields and no Can fields other than those detailed in this specification in the specified order and with the specified cardinality.

For example an openTRANS®-**INVOICE** must have the **INVOICE_ID** in the **INVOICE_INFO**-context, whereas the **REASON_FOR_TRANSFER** in the same context is optional.

If the element **INVOICE_INFO** appears in a business document, an **INVOICE_ID**-element has to appear and can not be null or left empty, whereas the element **REASON_FOR_TRANSFER** can follow an **INVOICE_INFO**. The following examples demonstrate this issue:

Example 1 - only invoice-identification-number (Mandatory-field):

```
<INVOICE_INFO>
  <INVOICE_ID>A123</INVOICE_ID>
  ...
```

```
</INVOICE_INFO>
```

Example 2 - not allowed: empty invoice-identification-number (Mandatory-field):

```
<INVOICE_INFO>
  <INVOICE_ID></INVOICE_ID>
  ...
</INVOICE_INFO>
```

Example 3 - invoice-identification-number (Must-field) and reason for transfer (Optional-field)

```
<INVOICE_INFO>
  <INVOICE_ID></INVOICE_ID>
  ...
  <REASON_FOR_TRANSFER>commission Meier Inc.</REASON_FOR_TRANSFER>
  ...
</INVOICE_INFO>
```

To check for elements which are required you can choose an approach from outside to inside. The following example demonstrates this. The element delivery date **DELIVERY_DATE** is optional in the context of an invoice-information **INVOICE_INFO**. If you choose to use the element **DELIVERY_DATE**, then you need to add and fill out the fields **DELIVERY_START_DATE** and **DELIVERY_END_DATE** since these elements are required if the element **DELIVERY_DATE** appears. This is straight forward as a delivery-date without mentioning the a start- and end-date is useless.

The following examples make this clear.

Example 4 - (invoice-informations without delivery date):

```
<INVOICE_INFO>
  <INVOICE_ID>...</INVOICE_ID>
  <INVOICE_DATE>...</INVOICE_DATE>
  <INVOICE_COVERAGE>...</INVOICE_COVERAGE>
  <DELIVERY_IDREF>...</DELIVERY_IDREF>
  <INVOICE_ISSUER_IDREF>...</INVOICE_ISSUER_IDREF>
  <INVOICE_RECIPIENT_IDREF>...</INVOICE_RECIPIENT_IDREF>
  <PARTIES>...</PARTIES>
  <CURRENCY>...</CURRENCY>
</INVOICE_INFO>
```

Example 5 - (invoice-informations including delivery date):

```
<HEADER>
  <INVOICE_ID>...</INVOICE_ID>
  <INVOICE_DATE>...</INVOICE_DATE>
  <INVOICE_COVERAGE>...</INVOICE_COVERAGE>
  <!-- hier kann DELIVERY_DATE angegeben werden (Kann-Feld) -->
  <DELIVERY_DATE>
    <!-- hier muss DELIVERY_START_DATE angegeben werden (Muss-Feld) -->
    <DELIVERY_START_DATE>2008-01-01</DELIVERY_START_DATE>
    <!-- hier muss DELIVERY_END_DATE angegeben werden (Muss-Feld) -->
    <DELIVERY_END_DATE>2008-03-31</DELIVERY_END_DATE>
  </DELIVERY_DATE>
  <DELIVERY_IDREF>...</DELIVERY_IDREF>
  <INVOICE_ISSUER_IDREF>...</INVOICE_ISSUER_IDREF>
  <INVOICE_RECIPIENT_IDREF>...</INVOICE_RECIPIENT_IDREF>
  <PARTIES>...</PARTIES>
  <CURRENCY>...</CURRENCY>
</HEADER>
```

2.5 Data types

Data types specify the value format and range of all the elements used in a document. Each atomic element is assigned one data type. The use of data types permits the semantics of document elements to be specified precisely. This is a basic precondition for importing or exporting documents. External systems which generate or process documents then recognize the format in which a particular document expects values to be entered and can recognize the format in which they are saved. The openTRANS[®] Standard distinguishes between basic, scalar and enumerated data types.

The **basic data type** define common used field-formats like strings, integers, boolean values (true or false) etc. A **table of basic data type** can be found in the appendix.

Additionally many **enumerated data type** based on international standards are used within the specification. An enumerated datatype is a set of permitted string-values. An element with an enumerated datatype can only reflect a value of its assigned set. All enumerated data type are shown in the **table of enumerated data**

type.

The **table of special data type** describes **special data type** with particular functions. These types are empty defined and usually don't have to be considered by the user as long as no user-defined module-extensions are integrated in the document. In the case of extensions these data type are to be redefined and concretized.

2.6 Coding in XML

The coding of individual characters in the XML elements should be specified in each openTRANS® file. This is done in the attribute "encoding" of the XML text declaration as in `<?xml version="1.0" encoding="UTF-8" ?>` Here "UTF-8" is specified as a character set.

openTRANS® supports all the character sets which appear in the XML specification (for example, ISO-8859-1, UTF-8, UTF-16). Within UTF character sets, a character is normally stored in one or more bytes. It should be noted that the field lengths in the field length column relate to the individual characters and not to the number of bytes used in a character set. For example, the code "Ü" which represents the letter "Ü", constitutes only one character. See also **chapter: multilanguage documents**.

2.7 History of openTRANS versions

Version	Date	Description
2005	04.11.2005	BMEcat® 2005: Implementation of Feedback for BMEcat 2005 version
20v1	26.02.2008	openTRANS® Release: first solution concepts prior to the development workshops
20v2	04.07.2008	openTRANS® Release: Implementation of feedback of the 1. workshop
20v3	31.07.2008	openTRANS® Release: Implementation of feedback of the 2. workshop
20fd	28.08.2008	openTRANS® 2.0 final draft: Revision, extension and implementation of the workshop-developments; Redesign of the specification
20	22.10.2008	openTRANS® 2.0: Implementation of feedback from the public draft phase
21fd	01.07.2009	openTRANS® 2.1 final draft: Implementation of feedback since publication of the final version 2.0. Bugfixes and example-adaptions.
21	02.10.2009	openTRANS® 2.1: Implementation of feedback since publication of the 2.1 final draft. Bugfixes and example-adaptions. Changes are mainly related to the INVOICELIST document.

Table 2-1: History of openTRANS® versions

3 Dataexchange with openTRANS 2.x

3.1 document structure

With openTRANS® it is possible to implement data about the business document itself and about data related to items in the document. openTRANS® 2.1-documents therefore consist of three logical areas - header, item-list and summary. This structure is tested since version 1.0 and is shortly present here.

3.1.1 Header-Level

The header (e.g. INVOICE_HEADER) describes all general information which is related to the whole document. This includes e.g. addresses of the parties and contract-informations. The header is similar for all openTRANS® 2.1 documents.

3.1.2 Item-Level

The item-level shows the relevant information for products, order-contents, position for supply or invoices in an invoice-list-document. Additionally values which are set on default on header-level often can be overwritten on item-level.

3.1.3 Summary

The summary is the closing of each document. Here you can find redundant information which is aggregated of the values on item-level. With the help of the summary you can do rechecks and sometimes (like for invoices) this area is required by law.

3.2 Multilingual documents



In openTRANS[®] all documents are defined in one language. Since the similarity of the used sub-elements in BMEcat[®] 2005 and openTRANS[®] 2.1 the formal definition of the XML-files permits multilingual documents. That means the corresponding XML-Schema may declares elements as "multiple" whereas the specification declares them as "single". In those cases the elements are allowed to be used more than one time only if more than one language is implemented in the same document/XML-file. In this case one can use them once per language. We implemented this to provide the opportunity to generally support multilingual files, although this is explicitly not provided by the standard and should be arranged between the partners. That means if multilingual documents are used this should be discussed and synchronized with the exchange-parties. A description of how multilingual documents can be used is shown on [http:// www.bmecat.org](http://www.bmecat.org) in the BMEcat documentation.

3.3 Changes in openTRANS 2.0

Beside numerous detail-improvements we implemented many new general requirements in openTRANS[®] 2.0. Here you can find the most significant changes and extensions:

- revision of invoice for new requirements by law
- support of processes with electronic signature
- extension of picemodels, especially multilevel surcharges and discounts
- better support for scenarios including intermediates, e.g. on marketplaces or with central regulators
- extend of the productmodel to better represent features and components (product configurations)
- two new business documents, INVOICELIST and REMITTANCEADVICE
- basic compatibility to BMEcat[®] 2005 (same definition for fields in both standards)

3.4 Changes in openTRANS[®] 2.1

In openTRANS[®] 2.1 many suggestions were implemented which reached us since publication of the final version 2.0. Main changes are related to bug fixes and example-adaptions. No large structural changes were made.

3.5 Downward compatibility zu openTRANS 1.0

openTRANS[®] 2.1 is not downward compatible to openTRANS[®] 1.0 but similar in the structure. Most elements of version 1.0 are reused in version 2.1. Some of them now have new sub-elements or new definitions. It should not be too complex to adapt software-systems or to create converters for 1.0-2.1 conversion.

3.6 Compatibility with BMEcat[®]

openTRANS[®] 2.1 business documents are compatible to BMEcat[®] 2005 catalogs meaning identical element(-definitions), rules and structures. This simplifies the usage of the data and software-systems using both standards.

Due to the asynchronous development-cycles of both standards we have some exceptions of differences of element-structures (like in **PARTY**). In this case we anticipated some future changes coming in the next BMEcat[®] version.

Reference of elements - order by appearance

INVOICELIST

(Invoice list)

The business document INVOICELIST is used to represent several documents which are comparable in structure. The element **INVOICELIST_TYPE** indicates which particular document is used. The three document types are:

- **Collective Invoice:**

The collective invoice is a collection of several invoices in a way conform to the german Value Added Tax Act. If the single invoices are not compliant to the VAT Act one can catch up this via one VAT compliant collective invoice.

A collective invoice is always transmitted from an invoicing party (**INVOICE_ISSUER_IDREF**) to an invoice receipting party (**INVOICE_RECIPIENT_IDREF**). This is specified in the element **INVOICELIST_INFO**. The sub-elements **INVOICE_ISSUER_IDREF** and **INVOICE_RECIPIENT_IDREF** of **INVOICELIST_ITEM** are not used in this case. The invoicing party is the supplier and the buyer receipts the invoice.



The concept of a collective invoice should not be confused with the colloquial used term of a collective invoice as an invoice comprising of several delivery notes or orders. This 'traditional' collective invoice is represented via the **INVOICE** business document.

- **Collective credit note:**

The collective credit note is a collection of several credit memos in a way conform to the german Value Added Tax Act. If the single credit memos are not compliant to the VAT Act one can catch up this via one VAT compliant collective credit memo.

A collective credit note is always transmitted from an invoicing party (**INVOICE_ISSUER_IDREF**) to an invoice receipting party (**INVOICE_RECIPIENT_IDREF**). This is specified in the element **INVOICELIST_INFO**. The sub-elements **INVOICE_ISSUER_IDREF** and **INVOICE_RECIPIENT_IDREF** of **INVOICELIST_ITEM** are not used in this case. The invoicing party is the buyer and the supplier receipts the invoice. The roles are interchanged in comparison to the collective invoice.

- **Invoice list:**

An invoice list is usually used when invoices of several invoicing parties (**INVOICE_ISSUER_IDREF**) are sent to one invoice recipient (**INVOICE_RECIPIENT_IDREF**) or invoices of one invoicing party are sent to several invoice recipients. Particularly in scenarios with intermediates (e.g. via centralised settlement). This document type allows specifying several invoicing parties (**INVOICE_ISSUER_IDREF**) and invoice recipients (**INVOICE_RECIPIENT_IDREF**) in the element **INVOICELIST_ITEM** on invoice line item level. To explicitly define the direction of the document flow the element **DOCEXCHANGE_PARTIES_REFERENCE** should be used.

Every valid business document **INVOICELIST** is introduced via the root element **INVOICELIST** in openTRANS® and contains a header (**INVOICELIST_HEADER**), an item level (**INVOICELIST_ITEM_LIST**) and a summary (**INVOICELIST_SUMMARY**).

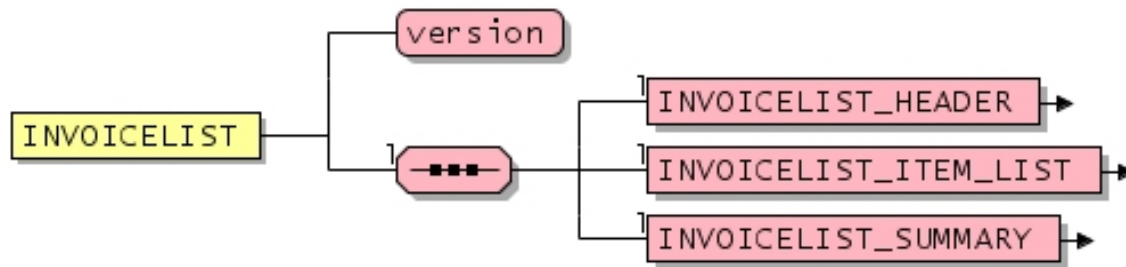
The header is at the beginning of the business document and contains global data valid for all types of business data exchange such as, for example information on the used currency. The header also lays down default settings for the following item level.

The item level contains the individual positions in the invoice list. Here the information is transferred from the header on the item level provided the item level has not been overwritten. This principle is valid for all elements.

The summary contains a summary of the informations of the invoice list. The information in this element is redundant and can be used for control and statistical evaluation.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
-	-	-	-	-	20v2



Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Version	version	Mandatory	Indicates the version of the openTRANS® Standard of the business document. Value range: "Major Version"."Minor Version" (Example: "2.0") See also: Permitted values for attribute "version"	-	dtSTRING	7	-	-


Permitted values for attribute "version"

Designation	Attribute value	Explanation	l.chg. in ver.
	2.1		-

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Header level	INVOICELIST_HEADER	Mandatory	Single	The header level is used to transfer information about business partners and the business document and enter default settings which can be overwritten on item level. 	-	-	-	-	20v2
Item level	INVOICELIST_ITEM_LIST	Mandatory	Single	On item line level the invoice groups of the invoice list are listed. 	-	-	-	-	20v2

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Summary	INVOICELIST_SUMMARY	Mandatory	Single	Summary of the invoice list informations. The information of this element is usually redundant. 	-	-	-	-	20v2

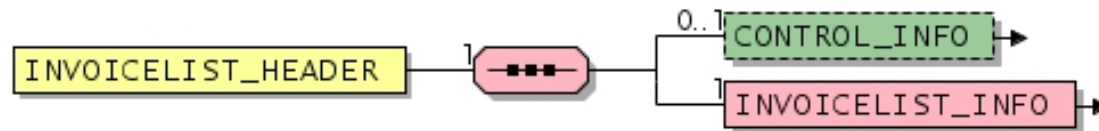
INVOICELIST_HEADER

(Header level)

The header is specified by the INVOICELIST_HEADER element. INVOICELIST_HEADER is used to transfer information about the business partners and the business document and enter default settings which can basically be overwritten on item level (**INVOICELIST_ITEM**).




New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST	-	-	-	-	20v2

Elements

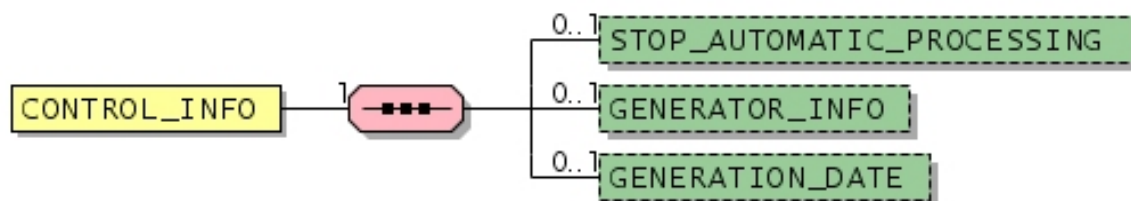
Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Control information	CONTROL_INFO	Optional	Single	Control information for the automatic processing of the business documents	-	-	-	-	-
Invoice list informations	INVOICELIST_INFO	Mandatory	Single	General informations related to this business document 	-	-	-	-	20

CONTROL_INFO

(Control information)

Control information for the automatic processing of the business document is stored in the element **CONTROL_INFO**.

If the element **CONTROL_INFO** is used, at least one of the following elements must be included.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_HEADER	-	-	-	-	-

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Interruption of automatic processing in the target system	STOP_AUTOMATIC_PROCESSING	Optional	Single	An instruction for the target system can be stored here if manual processing of the business document is required. The element consists of a text explaining why manual processing is necessary. Automatic processing in the target system is interrupted if the element is not empty. Caution: the element should only be used in justified exceptional cases (e.g. "Import test – NO processing is necessary")!	-	dtSTRING	250	-	2.0_fd
Generator information	GENERATOR_INFO	Optional	Single	Information about the generator (manual or automatic) of the document	-	dtSTRING	250	-	-
Generation date of the business document	GENERATION_DATE	Optional	Single	Generation date of the XML-document.	-	dtDATE-TIME	-	-	2.0_fd

INVOICELIST_INFO

(Invoice list informations)

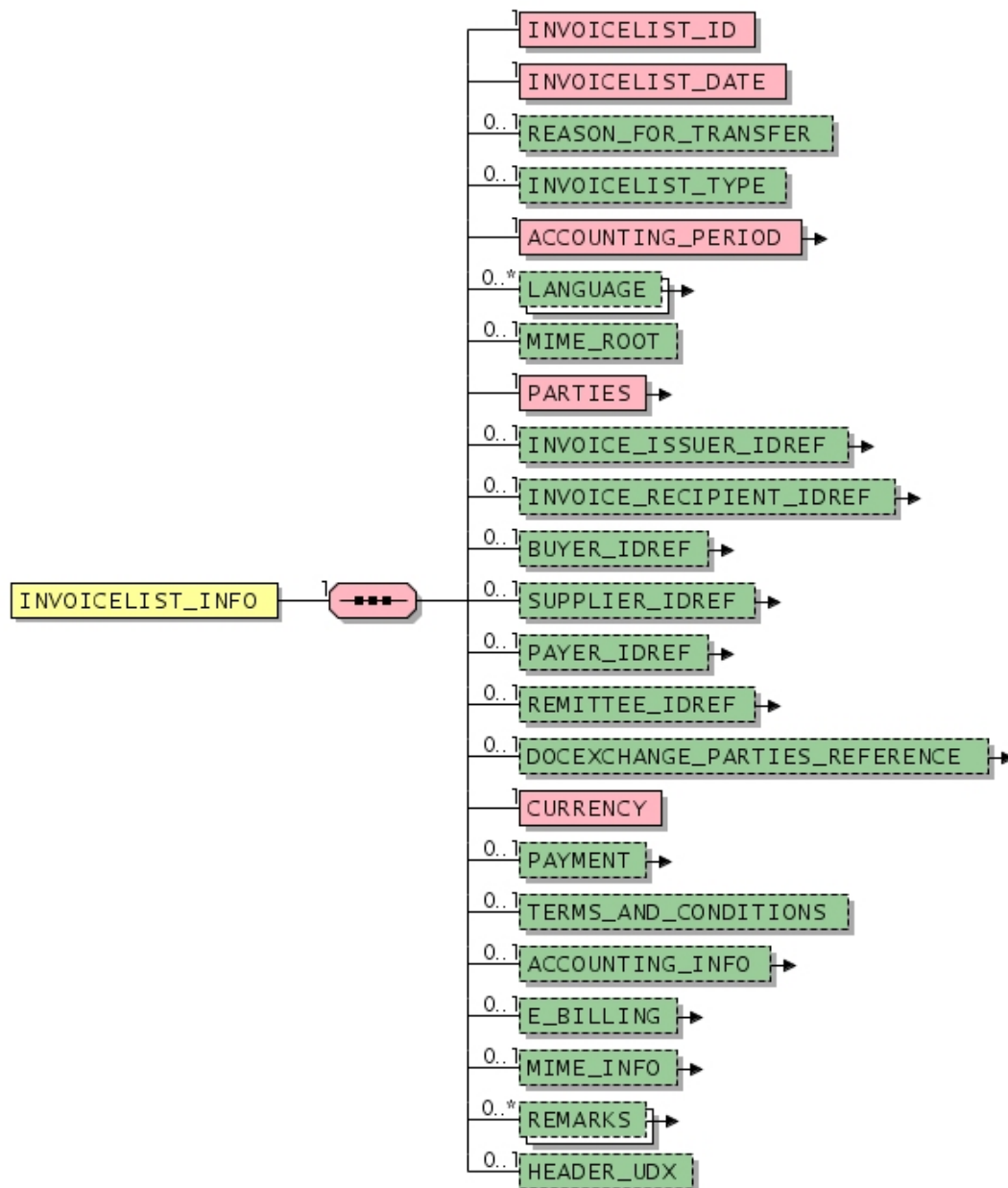
The element specifies the scope of the invoice list.

If this element is used at least one of the following elements has to be specified.



New element







For improvements related to the document processing the sorting was changed.











General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
INVOICELIST_HEADER	-	-	-	-	20




Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Invoice list ID	INVOICELIST_ID	Mandatory	Single	Unique ID of the invoice list  New element	-	dtSTRING	250	-	20v2
Date of the invoice list	INVOICELIST_DATE	Mandatory	Single	Date of the invoice list  New element	-	dtDATE-TIME	-	-	20v2
Intended purpose	REASON_FOR_TRANSFER	Optional	Single	Intended purpose especially regarding financial transactions and particularly bank transfers  New element	-	dtSTRING	140	-	20v2
Invoice list type	INVOICELIST_TYPE	Optional	Single	Specifies if the document is a collective invoice (in the meaning of the german value added tax) or an invoice list (a list of invoices in the narrow sense). In an invoice list the element DOCUMENT_ISSUER_IDREF defines the creator of the list and the element DOCUMENT_RECIPIENT_IDREF defines the recipient of the list.  New element See also: Permitted values for element INVOICELIST_TYPE	collective_invoice	dtSTRING	25	-	20v3
Accounting period	ACCOUNTING_PERIOD	Mandatory	Single	The time period reflected by a set of invoices  New element	-	-	-	-	20v2
Language	LANGUAGE - default	Optional	Multiple	Specification of used languages, especially the default language of all language-dependent information <i>namespace: BMECAT</i>	-	dtLANG	-	-	-
MIME root directory	MIME_ROOT	Optional	Single	A relative directory can be entered here (and/or a URI), i.e. one to which the relative paths in MIME_SOURCE refer. <i>namespace: BMECAT</i>	-	dtML-STRING	250	Yes	-
Parties	PARTIES	Mandatory	Single	List of parties that are relevant to this business document  New element	-	-	-	-	2005fd



Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Reference to invoicing party	INVOICE_ISSUER_IDREF - type	Optional	Single	Reference to an unique identifier of the invoicing party. The element refers to a PARTY_ID in the same document. 	-	dtSTRING	250	-	20v2
Reference to the recipient of the invoice	INVOICE_RECIPIENT_IDREF - type	Optional	Single	Reference to an unique identifier to the recipient of the invoice. The element refers to a PARTY_ID of an invoice recipient in the same document 	-	dtSTRING	250	-	20v2
Reference to the buyer	BUYER_IDREF - type	Optional	Single	Reference to the buyer. It contains the unique identifier (PARTY_ID) of the respective party that is defined in the document (PARTY element). <i>namespace: BMECAT</i> 	-	dtSTRING	250	-	2005fd
Reference to supplier	SUPPLIER_IDREF - type	Optional	Single	Reference to the supplier. It contains the unique identifier (PARTY_ID) of the respective party that is defined in the document (element PARTY). <i>namespace: BMECAT</i> 	-	dtSTRING	250	-	2005fd
Reference to the payer	PAYER_IDREF - type	Optional	Single	Reference to a unique identifier of the payer. The element refers to a PARTY_ID in the same document 	-	dtSTRING	250	-	20v2
Reference to a remittee	REMITTEE_IDREF - type	Optional	Single	Refers to a unique identifier of the remittee. The element refers to the PARTY_ID of the remittee in the same document. 	-	dtSTRING	250	-	20v2
Document exchange parties	DOCEXCHANGE_PARTIES_REFERENCE	Optional	Single	Reference to the business partners who take part in the document exchange 	-	-	-	-	20v3
Currency	CURRENCY	Mandatory	Single	Provides the currency that is default for all price information in the catalog. If the price of a product has a different currency, or this element is not used, the the currency has to be specified in the PRICE_CURRENCY element for the respective product.  Therefore, the currency must be specified in the catalog header or for each product separately. It is recommended to define a default currency. <i>namespace: BMECAT</i>	-	dtCURRENCIES	-	-	-



Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Mode of payment	PAYMENT	Optional	Single	Payment procedure  The PAYMENT element is to be interpreted by the recipient of the document as a requested mode of payment. The binding payment procedure is laid down in the order.	-	-	-	-	2.0
GTC	TERMS_AND_CONDITIONS	Optional	Single	General terms and conditions	-	dtSTRING	250	-	2.0
Accounting information	ACCOUNTING_INFO	Optional	Single	Information on the accounting treatment of costs incurred by the buyer as a result of the order. This information is supplied by the buyer to allow the supplier to include it in the following invoice, thereby making invoice verification by the buyer easier. <i>namespace: BMECAT</i> 	-	-	-	-	2005fd
E-Billing informations	E_BILLING	Optional	Single	Informations according E-Billing 	-	-	-	-	21fd
Additional multimedia information	MIME_INFO	Optional	Single	Information about multimedia files	-	-	-	-	-
Remark	REMARKS - type	Optional	Multiple	Remark related to a business document	-	dtML-STRING	64000	Yes	-

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
User-defined extension	HEADER_UDX	Optional	Single	<p>This element can be used for transferring information in user-defined non-open-TRANS-elements; hence it is possible to extend the pre-defined set of openTRANS-elements by user-defined ones. The usage of those elements results in openTRANS business documents, which can only be exchanged between the companies that have agreed on these extensions. The structure of these elements can be very complex, though it must be valid XML.</p> <p> <User Defined Extensions> are defined exclusively as optional fields. Therefore, it is expressly pointed out that if user-defined extensions are used they must be compatible with the target systems and should be clarified on a case-to-case basis.</p> <p>The names of the elements must be clearly distinguishable from the names of other elements contained in the openTRANS standard. For this reason, all element must start with the string "UDX" (Example: <code><UDX.supplier.elementname></code>).</p> <p>The definition of user-defined extensions takes place by additional XML DTD or XML Schema files.</p> <p> New element</p> <p>Example: usage of the non-openTRANS elements (XML)</p> <pre><INVOICE_INFO> ... <HEADER_UDX> <UDX.MYORG.CEO>Mr. Meier</UDX.MYORG.CEO> <UDX.MYORG.CEOTEL>+49 123 456789</UDX.MYORG.CEOTEL> </HEADER_UDX> </INVOICE_INFO></pre>	-	udxHEADER	-	-	20v1

Permitted values for element INVOICELIST_TYPE

Designation	Element value	Explanation	I.chg. in ver.
Collective credit memo	collect_credit_memo	<p>The document is a collective credit memo in the meaning of the german credit memo process of the german Value Added Tax Act.</p> <p> There may be different law restrictions in other countries.</p>	20v3
Collective invoice	collective_invoice	<p>The document is a collective invoice in the meaning of the german Value Added Tax Act.</p> <p> There may be different law restrictions in other countries.</p>	20v3

Permitted values for element INVOICELIST_TYPE

Designation	Element value	Explanation	I.chg. in ver.
Credit card statement	credit_card_statement	The document is a credit card statement.	21fd
Invoice list	invoice_list	The document is an invoice list and contains invoice summaries of (several) invoicing parties to (several) invoice recipients.	20v3

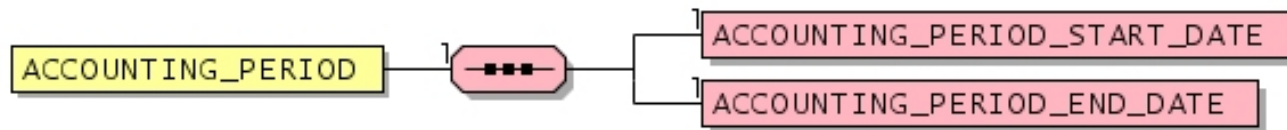
ACCOUNTING_PERIOD

(Accounting period)

The time period reflected by a set of invoices. The crucial factor is the date of the related invoices, not the orders or the date of service provision.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO, INVOICELIST_ITEM	-	-	-	-	20v2

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Start date of the accounting period	ACCOUNTING_PERIOD_START_DATE	Mandatory	Single	Unique timestamp for the date where the accounting period begins. New element	-	dtDATE TIME	-	-	20v2
End date of the accounting period	ACCOUNTING_PERIOD_END_DATE	Mandatory	Single	Unique timestamp for the date where the accounting period ends. New element	-	dtDATE TIME	-	-	20v2

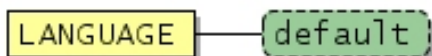
LANGUAGE

(Language) *namespace: BMECAT*

This element specifies the used languages, especially the default language of all language-dependent information.

Single-lingual documents: This element contains the used language. If the default-attribute is set, then it is not necessary to name the language in all elements that contain language-dependent information (default language).


Multi-lingual documents: This element must be used to specify each language that occurs in the document, therefore the element appears more than once. If the default-attribute is set for the most frequently or always used language, then it is not necessary to name for all language-dependent information this language (default language); it is sufficient to mark information in other languages.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO	-	dtLANG	-	-	-

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Default flag	default	Optional	This element determines the default language of all language-dependent information in the document.  New attribute	-	dtBOO-LEAN	-	-	2005fd

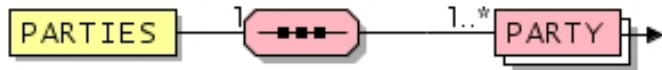
PARTIES

(Parties)

This element contains a list of parties that are relevant to this business document.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO	-	-	-	-	2005fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Business partner	PARTY	Mandatory	Multiple	Information about the business partner. 	-	-	-	-	21fd

PARTY

(Business partner)

This element contains information about a business partner.

If this element is used at least one of the following elements has to be specified.

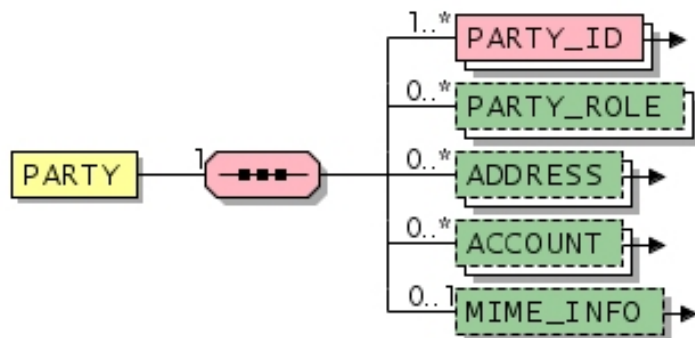


New element

Sub-element **ACCOUNT** has been added.

Sub-element **PARTY_ID** set to "mandatory". Sub-element **ADDRESS** has been set to "multiple"

Example added.






General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
PARTIES	-	-	-	-	21fd




Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ID of the business partner	PARTY_ID - type	Mandatory	Multiple	Unique identifier of the business partner. PARTY_ID has to be specified as the document contains references to this element. <i>namespace: BMECAT</i> 	-	dtSTRING	250	-	2005fd










Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Role of the business partner	PARTY_ROLE	Optional	Multiple	Role of the business partner in the context of this document  New element The list of pre-defined values has been extended with 'invoice_issuer' (invoicing party), 'invoice_recipient' (invoice receiving party) and 'deliverer' (transportation party, carrier). The list of pre-defined values has been extended with 'intermediary' (intermediate party), 'marketplace' (market place), 'payer', 'remittee' and 'central_regulator' (in case of centralized settlement). The list of pre-defined values has been extended with 'other'. The list of pre-defined values has been extended with 'TrustedThirdParty'. See also: Permitted values for element PARTY_ROLE	-	dtSTRING	20	-	21fd
Address	ADDRESS	Optional	Multiple	Address information of a business partner 	-	-	-	-	21fd
Bank account	ACCOUNT	Optional	Multiple	Bank account details 	-	-	-	-	21fd
Additional multimedia information	MIME_INFO	Optional	Single	Information about multimedia files For example logos, company profiles or other business partner related documents could be added here.	-	-	-	-	-








Permitted values for element PARTY_ROLE

Designation	Element value	Explanation	I.chg. in ver.
Buyer	buyer	The business partner is a buyer.	2005fd
Centralized settlement	central_regulator	The business party is a centralized settlement and supports the business of several partners.  New value	20v3
Customer	customer	The business party is the customer of the buying company.  New value	20v3
Transportation party, carrier	deliverer	The business party is the carrier.  New value	20v2

Permitted values for element PARTY_ROLE

Designation	Element value	Explanation	l.chg. in ver.
Location of shipment	delivery	The business party is the location of the product shipment or where the service is afforded.  New value	20v3
Document creator	document_creator	The business partner is the creator of the document.  New value	2005fd
Final shipment location	final_delivery	Reference to address and contact of the final recipient.  The federal office of export control currently only evaluates on order-header-level. Therefore orders related to exports should not use a party in this element which is different to the header-level element FINAL_DELIVERY_PARTY .  New value	20v3
Intermediate	intermediary	The business party is an intermediate between product/service provider and benefit recipient.  New value	20v3
Invoicing party	invoice_issuer	The business party is the invoicing party.  New value	20v2
Invoice recipient	invoice_recipient	The business party is the invoice receiving party.  New value	20v2
IPP operator	ipp_operator	The business partner operates an IPP application.  New value	2005fd
Manufacturer	manufacturer	The business partner is a manufacturer.  New value	2005fd

Permitted values for element PARTY_ROLE

Designation	Element value	Explanation	I.chg. in ver.
Market place	marketplace	The business party runs an electronic market place supporting the processing of procurement and distribution of products and services.  New value	20v3
Payer	payer	The business party is the payer.  New value	20v3
Remittee	remittee	The business party is the remittee.  New value	20v3
Standardization body	standardization_body	The business partner is a standardization body.  New value	2005fd
Supplier	supplier	The business partner is a supplier.  New value	2005fd
Trusted Third Party	trustedthirdparty	A trusted instance that e.g. signed and verified the attached digital signature.  New value	21fd
Other	other	If no other role matches this value can be used.  New value	20

Example

```

<PARTY>
  <bmeecat:PARTY_ID type="supplier_specific">108304</bmeecat:PARTY_ID>
  <PARTY_ROLE>document_creator</PARTY_ROLE>
  <ADDRESS>
    <bmeecat:NAME>Power Supply Corp.</bmeecat:NAME>
    <CONTACT_DETAILS>
      <bmeecat:CONTACT_ID>MA02</bmeecat:CONTACT_ID>
      <bmeecat:CONTACT_NAME>Doe</bmeecat:CONTACT_NAME>
      <bmeecat:FIRST_NAME>John</bmeecat:FIRST_NAME>
      <bmeecat:ACADEMIC_TITLE>Phd</bmeecat:ACADEMIC_TITLE>
    </CONTACT_DETAILS>
    <bmeecat:STATE>Saxony Anhalt</bmeecat:STATE>
    <bmeecat:COUNTRY>Germany</bmeecat:COUNTRY>
    <bmeecat:COUNTRY_CODED>DE</bmeecat:COUNTRY_CODED>
    <bmeecat:PHONE>+49 345 WE SELL</bmeecat:PHONE>
    <bmeecat:FAX>+49 555 77 88 99</bmeecat:FAX>
    <bmeecat:EMAIL>power@supply.com</bmeecat:EMAIL>
    <bmeecat:URL>www.powersupplycorp.com</bmeecat:URL>
  </ADDRESS>
  <ACCOUNT>
    <HOLDER>Power Supply Corp.</HOLDER>
    <BANK_ACCOUNT type="iban">DE12 3456 7890 0000 9999 99</BANK_ACCOUNT>
    <BANK_CODE type="bic">1002003040</BANK_CODE>
    <BANK_NAME>Good Bank</BANK_NAME>
    <BANK_COUNTRY>DE</BANK_COUNTRY>
  </ACCOUNT>
</PARTY>

```

PARTY_ID

(ID of the business partner) *namespace: BMECAT*

This element contains the unique identifier of the business partner. **PARTY_ID** has to be specified as the document contains references to this element.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
PARTY	-	dtSTRING	250	-	2005fd

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identificator of codification standard. "\w{1,250}" means that the identificator of the codification standard has to be at least 1 chraracter long up to a maximum of 250 characters.	-

ADDRESS

(Address)

This element is used to transfer address information of a business partner.

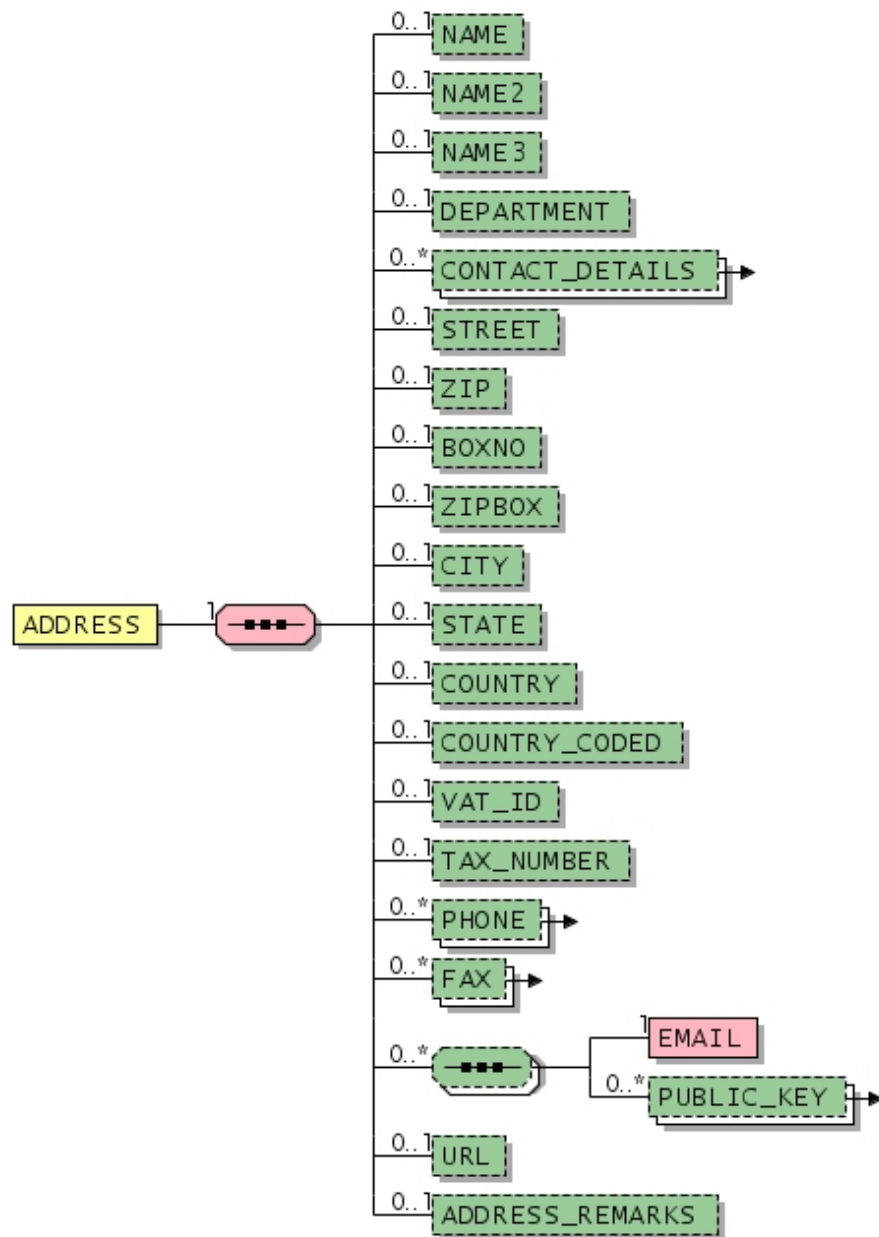


This element has been extended by the following sub-elements: **DEPARTMENT**, **CONTACT_DETAILS**, **VAT_ID**; the sub-element **EMAIL** may occur more than once if the e-mail address comes with an element **PUBLIC_KEY**.

The sub-elements **PHONE** und **FAX** may occur more than once, due to their type-attribute.

The sub-element **CONTACT_DETAILS** was accidentally deleted in the draft version and is now inserted again.



Example adapted.









General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
PARTY	-	-	-	-	21fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Address line	NAME	Optional	Single	First address line, in most cases the name of the organisation <i>namespace: BMECAT</i>	-	dtML-STRING	50	Yes	-
Address line 2	NAME2	Optional	Single	additional space for address information <i>namespace: BMECAT</i>	-	dtML-STRING	50	Yes	-
Address line 3	NAME3	Optional	Single	additional space for address information <i>namespace: BMECAT</i>	-	dtML-STRING	50	Yes	-
Department	DEPARTMENT	Optional	Single	Department of the organisation <i>namespace: BMECAT</i>  New element	-	dtML-STRING	50	Yes	2005fd
Contact	CONTACT_DETAILS	Optional	Multiple	Information on a contact person 	-	-	-	-	21fd
Street	STREET	Optional	Single	Street name and house number <i>namespace: BMECAT</i>	-	dtML-STRING	50	Yes	-
Zip code	ZIP	Optional	Single	ZIP code of address <i>namespace: BMECAT</i>	-	dtML-STRING	20	Yes	-
P.O. Box	BOXNO	Optional	Single	P.O. box number <i>namespace: BMECAT</i>	-	dtML-STRING	20	Yes	-
Zip code of P.O. Box	ZIPBOX	Optional	Single	ZIP code of P.O. box <i>namespace: BMECAT</i>	-	dtML-STRING	20	Yes	-
Town or city	CITY	Optional	Single	Town or city of the company <i>namespace: BMECAT</i>	-	dtML-STRING	50	Yes	-
Federal state	STATE	Optional	Single	Federal state, e.g., Michigan <i>namespace: BMECAT</i>	-	dtML-STRING	50	Yes	-
Country	COUNTRY	Optional	Single	Country, e.g., France <i>namespace: BMECAT</i>	-	dtML-STRING	50	Yes	-

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Country code	COUNTRY_CODED	Optional	Single	Country code, e.g. FR for France <i>namespace: BMECAT</i>  New element	-	dt COUN- TRIES	-	-	2005fd
VAT-ID	VAT_ID	Optional	Single	VAT identification number of the business partner <i>namespace: BMECAT</i>  New element	-	dt STRING	50	-	2005fd
Tax number	TAX_NUMBER	Optional	Single	Tax number of a business partner  New element	-	dt STRING	50	-	20v2
Phone number	PHONE - type	Optional	Multiple	Phone number including type <i>namespace: BMECAT</i> 	-	dt ML- STRING	50	Yes	2005fd
Fax number	FAX - type	Optional	Multiple	Fax number <i>namespace: BMECAT</i>	-	dt ML- STRING	50	Yes	-
E-mail address	EMAIL	Mandatory	Single	e-mail address <i>namespace: BMECAT</i>  The maximum length has been extended from 100 characters to 250 characters.	-	dt STRING	255	-	2005fd
Public key	PUBLIC_KEY - type	Optional	Multiple	Public key, e.g. PGP <i>namespace: BMECAT</i>	-	dt STRING	64000	-	1.2_fd
Internet address	URL	Optional	Single	URL of the web site, e.g., http://www.bmecat.org <i>namespace: BMECAT</i>  The maximum length has been extended from 100 characters to 250 characters.	-	dt STRING	255	-	2005fd
Remarks	ADDRESS_REMARKS	Optional	Single	Remarks on the organization <i>namespace: BMECAT</i>	-	dt ML- STRING	250	Yes	-

Example

```

<ADDRESS>
  <bmecat:NAME>Fraunhofer Society</bmecat:NAME>
  <bmecat:NAME2>Institute for industrial engineering</bmecat:NAME2>
  <bmecat:DEPARTMENT>Competence Center E-Business</bmecat:DEPARTMENT>
  <CONTACT_DETAILS>
    <bmecat:CONTACT_ID>MA02</bmecat:CONTACT_ID>
    <bmecat:CONTACT_NAME>Doe</bmecat:CONTACT_NAME>
    <bmecat:FIRST_NAME>John</bmecat:FIRST_NAME>
    <bmecat:ACADEMIC_TITLE>Phd</bmecat:ACADEMIC_TITLE>
    <bmecat:PHONE>+49 999 777 9981</bmecat:PHONE>
    <bmecat:FAX>+49 999 777 9900</bmecat:FAX>
    <bmecat:EMAILS>max@mustermann.de</bmecat:EMAILS>
  </CONTACT_DETAILS>
  <bmecat:STREET>Nobelstr. 12</bmecat:STREET>
  <bmecat:ZIP>70569</bmecat:ZIP>
  <bmecat:CITY>Stuttgart</bmecat:CITY>
  <bmecat:STATE>Baden-Württemberg</bmecat:STATE>
  <bmecat:COUNTRY>Germany</bmecat:COUNTRY>
  <bmecat:COUNTRY_CODED>DE</bmecat:COUNTRY_CODED>
  <bmecat:VAT_ID>DE 129515865</bmecat:VAT_ID>
  <bmecat:PHONE>+49 345 ECOMMERCE</bmecat:PHONE>
  <bmecat:FAX>+49 555 77 88 99</bmecat:FAX>
  <bmecat:EMAIL>info@iao.fraunhofer.de</bmecat:EMAIL>
  <bmecat:URL>http://www.fraunhofer.de</bmecat:URL>
</ADDRESS>

```


CONTACT_DETAILS

(Contact)

This element contains informations about a contact person.

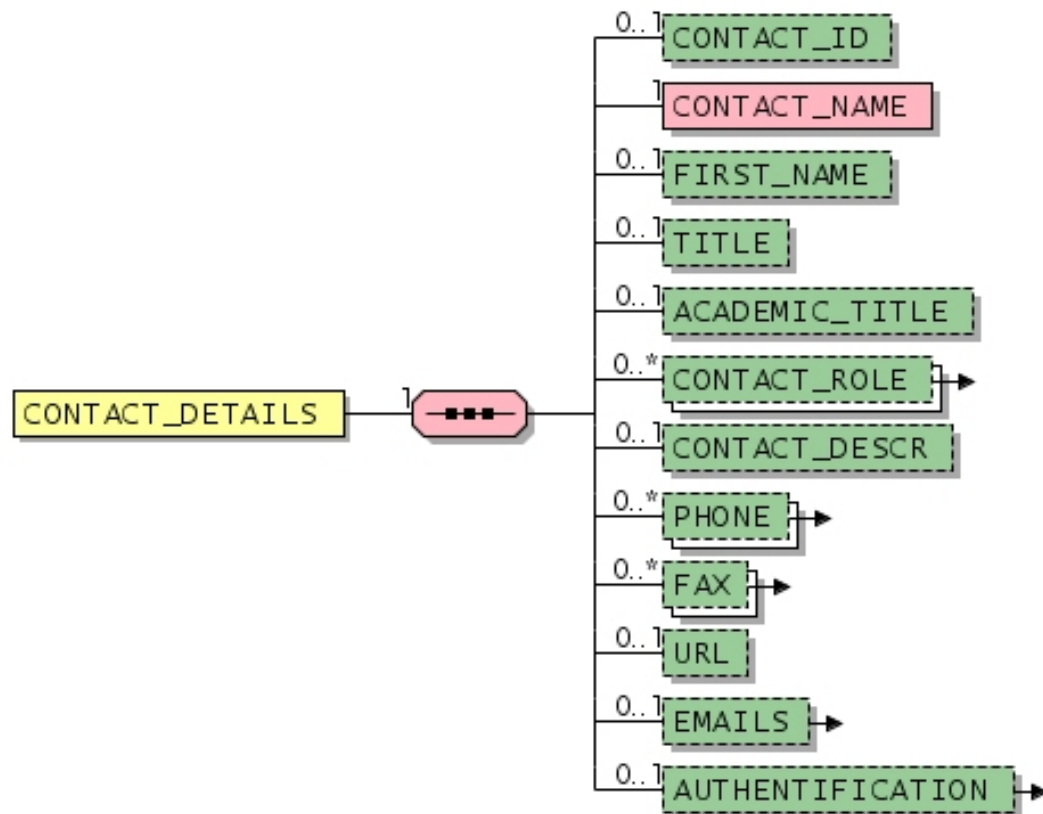


New element

The sub-elements **PHONE** and **FAX** may occur more than once, due to their type-attribute.

AUTHENTICATION was added as sub-element.








Changed sub-element **CONTACT_ID** to optional. Example added.






General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
ADDRESS	-	-	-	-	21fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Contact ID	CONTACT_ID	Optional	Single	Unique ID of the contact person. <i>namespace: BMECAT</i>  New element The maximum length has been extended from 50 characters to 60 characters.	-	dtSTRING	60	-	2005
Contact name	CONTACT_NAME	Mandatory	Single	Last name of the contact <i>namespace: BMECAT</i>  New element	-	dtML-STRING	50	Yes	2005fd
First name	FIRST_NAME	Optional	Single	First name of the contact person <i>namespace: BMECAT</i>	-	dtML-STRING	50	Yes	-
Title	TITLE	Optional	Single	Form of address, e.g., Mr., Ms. <i>namespace: BMECAT</i>  New element	-	dtML-STRING	20	Yes	2005fd
Academic title	ACADEMIC_TITLE	Optional	Single	Academic title of the contact person, e.g., Dr. <i>namespace: BMECAT</i>  New element	-	dtML-STRING	50	Yes	2005fd
Role	CONTACT_ROLE - type	Optional	Multiple	Role or position of a contact 	-	dtML-STRING	50	Yes	2005fd
Contact description	CONTACT_DESCR	Optional	Single	Additional information on the contact person <i>namespace: BMECAT</i>  New element	-	dtML-STRING	250	Yes	2005fd
Phone number	PHONE - type	Optional	Multiple	Phone number including type <i>namespace: BMECAT</i> 	-	dtML-STRING	50	Yes	2005fd
Fax number	FAX - type	Optional	Multiple	Fax number <i>namespace: BMECAT</i>	-	dtML-STRING	50	Yes	-

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Internet address	URL	Optional	Single	URL of the web site, e.g., http://www.bmecat.org <i>namespace: BMECAT</i>  The maximum length has been extended from 100 characters to 250 characters.	-	dtSTRING	255	-	2005fd
E-mail addresses	EMAILS	Optional	Single	List of e-mail addresses <i>namespace: BMECAT</i> 	-	-	-	-	2005fd
Authentication information	AUTHENTICATION	Optional	Single	Authentication information <i>namespace: BMECAT</i> 	-	-	-	-	2005fd

Example

```

<CONTACT_DETAILS>
  <bmecat:CONTACT_ID>MA02</bmecat:CONTACT_ID>
  <bmecat:CONTACT_NAME>Doe</bmecat:CONTACT_NAME>
  <bmecat:FIRST_NAME>John</bmecat:FIRST_NAME>
  <bmecat:ACADEMIC_TITLE>Phd</bmecat:ACADEMIC_TITLE>
</CONTACT_DETAILS>

```

CONTACT_ROLE

(Role)

This element describes the role or position of the contact person.




New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
CONTACT_DETAILS	-	dtML-STRING	50	Yes	2005fd

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coded role	type	Optional	This attribute contains the role or position as a machine-readable code.  The list of pre defined values was extended. New items are 'document_issuer' (intermediator), 'market-place', 'payer', 'remittee' and 'central_regulator' (regulator for centralized settlement). See also: Permitted values for attribute "type"	-	dtSTRING	20	-	20v3

Permitted values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Administrative	administrativ	Contact concerning administrative questions	2005fd
Commercial	commercial	Contact concerning commercial questions	2005fd
document trigger	document_issuer	The one who triggered the document, e.g. the one who placed an order.	20v3
Special treatment	special_treatment	Contact concerning the handling of special products	2005fd
Technical	technical	Contact concerning technical questions	2005fd
Other	others	Contact concerning general questions	2005fd

PHONE

(Phone number) *namespace: BMECAT*

This element contains a phone number. The respective attribute defines the type of the phone.



The maximum length has been extended from 30 characters to 50 characters.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ADDRESS, CONTACT_DETAILS	-	dtML-STRING	50	Yes	2005fd

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Type of phone number	type	Optional	Specifies the type of the phone number. New attribute See also: Predefined values for attribute "type"	-	dtSTRING	50	-	2005fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Mobile telephone	mobile	Mobile phone number	2005fd
Office	office	Office phone number	2005fd
Private	private	Private phone number	2005fd
Self-defined type	User defined value, format: \w{1,50}	Phone types may be self-defined and have to be 1 character at the minimum and not more than 50 characters.	2005fd

Example

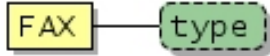
```

<PHONE type="office">+49 201 183 4084</PHONE>
<PHONE type="private">+49 201 12345678</PHONE>
<PHONE type="mobile">+49 170 12345678</PHONE>
  
```

FAX

(Fax number) *namespace: BMECAT*


This element contains a fax number.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ADDRESS, CONTACT_DETAILS	-	dtML-STRING	50	Yes	-

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Phone type	type	Optional	Specifies the type of the phone number.  New attribute See also: Predefined values for attribute "type"	-	dtSTRING	50	-	2005fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Office	office	Office fax number	2005fd
Private	private	Private fax number	2005fd
Self-defined type	User defined value, format: \w{1,50}	Fax types may be self-defined and have to be 1 character at the minimum and not more than 50 characters.	2005fd

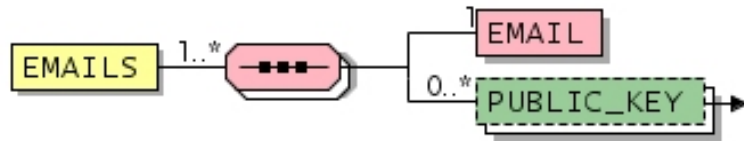
EMAILS

(E-mail addresses) *namespace: BMECAT*

This element contains a list of e-mail addresses.



New element



General

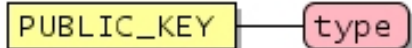
Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
CONTACT_DETAILS	-	-	-	-	2005fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
E-mail address	EMAIL	Mandatory	Single	e-mail address <i>namespace: BMECAT</i> The maximum length has been extended from 100 characters to 250 characters.	-	dtSTRING	255	-	2005fd
Public key	PUBLIC_KEY - type	Optional	Multiple	Public key, e.g. PGP <i>namespace: BMECAT</i>	-	dtSTRING	64000	-	1.2_fd

PUBLIC_KEY(Public key) *namespace: BMECAT*

Indicates the public key, e.g. PGP, of the person addressed here.

**General**

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ADDRESS, EMAILS	-	dtSTRING	64000	-	1.2_fd

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Type of coding process	type	Mandatory	This attribute indicates the Public Key coding process in which the e-mail is coded. Must comply with the format "<Name>-<MajorVersion>.<MinorVersions>". Example.: PGP-6.5.1	-	dtSTRING	50	-	1.2_fd

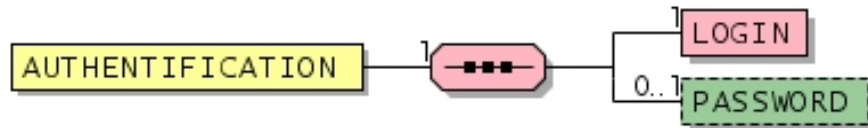
AUTHENTICATION

(Authentication information) *namespace: BMECAT*

This element contains authentication information that is forwarded to the respective application.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
CONTACT_DETAILS	-	-	-	-	2005fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Login	LOGIN	Mandatory	Single	Login as part of the authentication <i>namespace: BMECAT</i> New element	-	dtSTRING	60	-	2005fd
Password	PASSWORD	Optional	Single	Password for the login. <i>namespace: BMECAT</i> New element	-	dtSTRING	20	-	2005fd

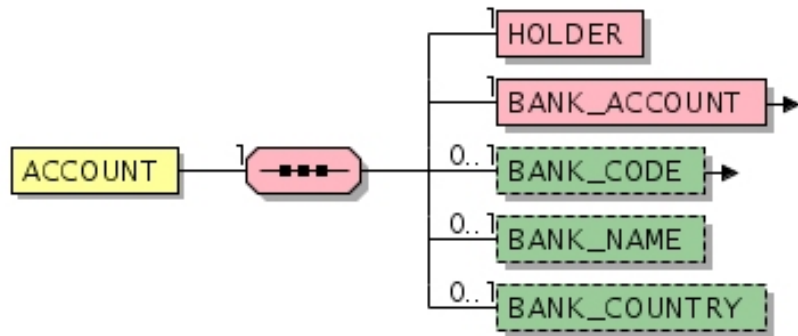
ACCOUNT

(Bank account)

The ACCOUNT element summarizes information about bank accounts.





The sub-element **PAYMENT_TERM** was deferred to the element **PAYMENT_TERMS**.
Example added.




General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
PARTY, PAYMENT	-	-	-	-	21fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Account holder	HOLDER	Mandatory	Single	Name of the account holder	-	dtSTRING	50	-	2.0
Account number	BANK_ACCOUNT - type	Mandatory	Single	Code to identify an account; the attribute "type" determines the coding of the account  Many coding-standards do not allow that the credit institution or bank is stored in the account number. In those cases the credit institution is quoted via the BANK_CODE -element. 	-	dtSTRING	100	-	20fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Bank code	BANK_CODE - type	Optional	Single	Bank identification number; the attribute "type" indicates the coding of this number 	-	dt STRING	50	-	20v2
Bank name	BANK_NAME	Optional	Single	Name of the bank	-	dt STRING	50	-	2.0
Country	BANK_COUNTRY	Optional	Single	Country in which the bank account is managed.	-	dt COUN- TRIES	-	-	2.0

Example

```

<ACCOUNT>
  <HOLDER>Power Supply Corp.</HOLDER>
  <BANK_ACCOUNT type="iban">DE00111122223333123</BANK_ACCOUNT>
  <BANK_CODE type="bic">11110011222</BANK_CODE>
  <BANK_NAME>Good Bank</BANK_NAME>
  <BANK_COUNTRY>DE</BANK_COUNTRY>
</ACCOUNT>

```

BANK_ACCOUNT

(Account number)

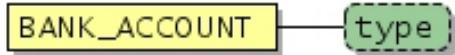
Code to identify an account; the attribute "type" determines the coding of the account



Many coding-standards do not allow that the credit institution or bank is stored in the account number. In those cases the credit institution is quoted via the **BANK_CODE**-element.



New attribut 'type' inserted.
New attribut 'standard' inserted.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ACCOUNT	-	dtSTRING	100	-	20fd

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding of the account number	type	Optional	Attribute indicating the coding-standard for the account number. New attribute See also: Predefined values for attribute "type"	-	dtSTRING	20	-	20v2

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Bank Account Number	standard	Bank account number, in opposite to the IBAN-Coding without informations to the credit institution. In case of the value 'standard' of the attribute 'type', for unique identification the element BANK_CODE must be specified.	20v2
International Bank Account Number	iban	global unique identifier of an account including coding of the credit institution (ISO 13616:2003); http://www.swift.com/index.cfm?item_id=61731	20v2

Predefined values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
User defined type	User defined value, format: \w{1,20}	Identification of the user defined type . "\w{1,20}" means that the type identification has to be at least 1 chraracter long up to a maximum of 20 characters.	20v2

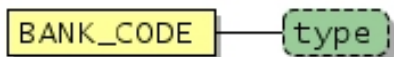
BANK_CODE

(Bank code)

Bank identification number; the attribute "type" indicates the coding of this number




Added new attribute 'type'.

**General**

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ACCOUNT	-	dtSTRING	50	-	20v2

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding of the bank identification number	type	Optional	The attribute indicates the coding of the bank code.  New attribute See also: Predefined values for attribute "type"	-	dtSTRING	20	-	20v2

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Bank Identifier Code	bic	Bank Identification according to the SWIFT Coding (ISO 9362); http://www.swift.com	20v2
User defined type	User defined value, format: \w{1,20}	Identification of the user defined type . "w{1,20}" means that the type identification has to be at least 1 character long up to a maximum of 20 characters.	20v2

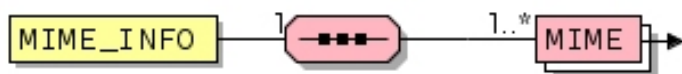
MIME_INFO

(Additional multimedia information)

This element can be used to specify references to additional multimedia documents belonging to a particular article. This makes it possible, for example, to reference photographs or product data sheets of an article at the same time as the catalog data is exchanged.

It is assumed that this additional data either is transferred (separately) and that it is imported relative to the directory specified in the **HEADER** as **MIME_ROOT** or the additional data is directly integrated and binary-coded in the document.


This element can contain any number of **MIME** elements. Each of these elements represents exactly one reference to an additional document. The definition of the **MIME** element is based on the MIME format (Multipurpose Internet Mail Extensions). The MIME format serves to standardize data transfers over the Internet. Additional examples can be found one the page describing the element **MIME**.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO, INVOICELIST_ITEM, PARTY	-	-	-	-	-

Elements


Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Multimedia document	MIME	Mandatory	Multiple	Information about a multimedia file. The file itself is can be referenced and transferred separately or directly binary-coded in the document via the element MIME_EMBEDDED . 	-	-	-	-	21fd

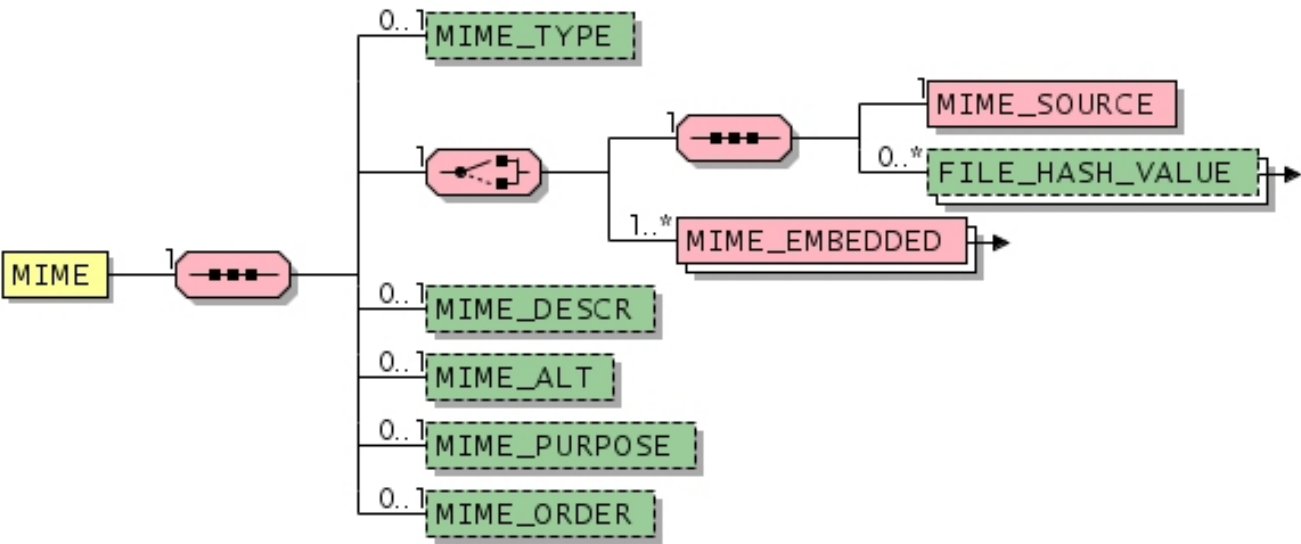
Example

```
<MIME_INFO>
  <MIME>
    <bmeecat:MIME_TYPE>image/jpeg</bmeecat:MIME_TYPE>
    <bmeecat:MIME_SOURCE>55-K-31.jpg</bmeecat:MIME_SOURCE>
    <bmeecat:MIME_DESCR>Frontal view of the standard DIN A4 letter tray</bmeecat:MIME_DESCR>
    <bmeecat:MIME_ALT>Image of the standard DIN A4 letter tray</bmeecat:MIME_ALT>
    <MIME_PURPOSE>thumbnail</MIME_PURPOSE>
  </MIME>
  <MIME>
    <MIME_EMBEDDED>
      <MIME_DATA contentType="image/jpeg">bnVyIGVpbiBUZXN0bGF1Zg==</MIME_DATA>
    </MIME_EMBEDDED>
    <bmeecat:MIME_DESCR>Vorderansicht</bmeecat:MIME_DESCR>
    <bmeecat:MIME_ALT>Bild Charlie</bmeecat:MIME_ALT>
    <MIME_PURPOSE>freehand_sketch</MIME_PURPOSE>
  </MIME>
</MIME_INFO>
```


MIME
(Multimedia document)





Information about a multimedia file. The file itself is can be referenced and transferred separately or directly binary-coded in the document via the element **MIME_EMBEDDED**.

 The element **MIME_EMBEDDED** was added.
Examples adapated.




General					
Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
INVOICE_ORIGINAL, MIME_INFO, SIGNATURE, VERIFICATION_ATTACHMENT	-	-	-	-	21fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
MIME type	MIME_TYPE	Optional	Single	Type of the additional document; this element is oriented towards the mime type usual in the Internet (ftp://ftp.isi.edu/in-notes/rfc1341.txt) <i>namespace: BMECAT</i>  The element is now mandatory. The recipient can now better process the incoming data since the format is always known. See also: Predefined values for element MIME_TYPE	-	dtSTRING	30	-	21fd
Source	MIME_SOURCE	Mandatory	Single	The relative path and the file name or URL address. The MIME_SOURCE string is combined with the base path (MIME_ROOT) specified in the header of the document (attached to it by means of a simple concatenation). Sub-directories must be separated by means of slashes ("/") (e.g. /public/document/demo.pdf). <i>namespace: BMECAT</i>	-	dtML- STRING	255	Yes	-
Hash value of a file	FILE_HASH_VALUE - type - lang	Optional	Multiple	Element contains a hash value related to an external file 	-	dtSTRING	100	-	21fd
Embedded document	MIME_EMBEDDED - lang	Mandatory	Multiple	Element containing a binary-coded file and additional information 	-	-	-	-	20v2
Designation	MIME_DESCR	Optional	Single	Description of the additional file. It will be displayed in the target system. <i>namespace: BMECAT</i>	-	dtML- STRING	250	Yes	-
Alternative text	MIME_ALT	Optional	Single	Alternative text used if the file cannot be represented in the target system, for example. <i>namespace: BMECAT</i>  The maximum length has been extended from 50 characters to 80 characters.	-	dtML- STRING	80	Yes	2005fd









Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Purpose	MIME_PURPOSE	Optional	Single	<p>Desired purpose for which the MIME document is to be used in the target system.</p> <p></p> <p>The list of allowed values has been extended by 'icon' and 'safety_data_sheet'.</p> <p>The list of allowed values has been extended by 'manual' (manual of a product), 'directions' (directions sketch), 'conformity' (declaration of conformity), 'fax_image' (copy of a fax), 'freehand_sketch' (freehand sketch), 'mounting_guidelines' (assembly guide or installation guide etc.), 'repair_manual' (repair instructions), 'service_descr' (service description), 'service_record' (activity confirmation, record of achievement etc.) and 'warranty' (warranty).</p> <p>The list of allowed values has been extended by 'verification_report' (Report of verification process).</p> <p>The list of allowed values has been extended by 'signatur_file' (file with an external signature) and 'original_document' (the original document).</p> <p>See also: Permitted values for element MIME_PURPOSE</p>	-	dtSTRING	20	-	20v3
Order	MIME_ORDER	Optional	Single	<p>Order in which the additional data is to be represented in the target system.</p> <p>When additional documents are listed they should be represented in ascending order (the first document is the one with the lowest number). <i>namespace: BMECAT</i></p>	-	dtINTEGER	-	-	-








Predefined values for element MIME_TYPE

Designation	Element value	Explanation	l.chg. in ver.
PDF document	application/pdf	(Local) Acrobat PDF format	-
XML file	application/xml	(Local) XML file (see also http://www.w3.org/TR/xhtml-media-types/xhtml-media-types.html)	2005fd
GIF	image/gif	(Local) image/graphic in GIF format	-
JPEG	image/jpeg	(Local) image/graphic in JPEG format	-
HTML	text/html	(Local) document in HTML format (within the catalog file system; see also http://www.w3.org/TR/xhtml-media-types/xhtml-media-types.html)	-
Text	text/plain	(Local) unformatted text file	-
URL	url	Link to a resource on the Internet (or Intranet); this is not an official MIME type but will be used here anyway. Example: "http://www.bmecat.org"	-
...	User defined value, format: [w\-.]{1,30}	All MIME types can be used. It cannot be guaranteed, however, that the target systems will be able to represent them.	-

Permitted values for element MIME_PURPOSE

Designation	Element value	Explanation	l.chg. in ver.
Declaration of conformity	conformity	Declaration of conformity to confirm the conform usage of norms and standards  New value	20v2
Product data sheet	data_sheet	Product data sheet (e.g. a technical drawing)	-
Detail view	detail	Enlarged image	-
Directions sketch	directions	Directions sketch, map of building or city map  New value	20v2
Copy of a fax	fax_image	Electronic copy of the original  New value	20v2
Freehand sketch	freehand_sketch	Freehand sketch of something (product etc.)  New value	20v2
Icon	icon	Small icon, e.g to indicate the fulfilment of a standard  New value	2005fd
Logo	logo	Product or partner logo	1.2_fd
Manual	manual	Manual of the product  New value	20v2
Mounting guide	mounting_guidelines	Mounting, assembly or installation guide  New value	20v2
Normal view	normal	Normal view (normal size)	-
Original document	original_document	Representation of the document in human readable form (e.g. as PDF-file or graphic)  New value	20fd

Permitted values for element MIME_PURPOSE

Designation	Element value	Explanation	l.chg. in ver.
Repair instructions	repair_manual	Repair instructions for a product  New value	20v2
Safety data sheet	safety_data_sheet	Safety data sheet (for dangerous materials, for example)  New value	2005fd
Signatur file	signatur_file	File containing an external signatur  New value	20fd
Service description	service_descr	Description of the offered service or produkt  New value	20v2
Service record	service_record	Record of the activity, performance, achievement or a copy of the original  New value	20v2
Thumbnail view	thumbnail	Preview (small)	-
Report of verification	verification_report	Report of verification or test-processes  New value	20v3
Warranty	warranty	Warranty certificate  New value	20v2
Others	others	Should none of the other values be suitable, others can be used.	-

Example 1

References to an image file and a product data sheet belonging to the “Charlie casual shirt” must be transferred at the same time as the product data is being exchanged.

```
<MIME_INFO>
  <MIME>
    <bmeecat:MIME_TYPE>image/jpeg</bmeecat:MIME_TYPE>
    <bmeecat:MIME_SOURCE>charlie.jpg</bmeecat:MIME_SOURCE>
    <FILE_HASH_VALUE type="sha1">9bae0ce526a7b30275ac0d3bdfe3c90e41def6ed</FILE_HASH_VALUE>
    <bmeecat:MIME_DESCR>Front view of our casual shirt</bmeecat:MIME_DESCR>
    <bmeecat:MIME_ALT>Photo of Charlie</bmeecat:MIME_ALT>
    <MIME_PURPOSE>normal</MIME_PURPOSE>
  </MIME>
  <MIME>
    <bmeecat:MIME_TYPE>application/pdf</bmeecat:MIME_TYPE>
    <bmeecat:MIME_SOURCE>charlie.pdf</bmeecat:MIME_SOURCE>
    <FILE_HASH_VALUE type="sha1">72506ebaf7df4b02e79284ae86684327c908fec6</FILE_HASH_VALUE>
    <bmeecat:MIME_DESCR>Designation of the production process</bmeecat:MIME_DESCR>
    <bmeecat:MIME_ALT>PDF file belonging to Charlie</bmeecat:MIME_ALT>
    <MIME_PURPOSE>data_sheet</MIME_PURPOSE>
  </MIME>
</MIME_INFO>
```

Example 2

An image file belonging to the “Charlie casual shirt” is transferred directly in the document.

```
<MIME_INFO>
  <MIME>
    <bmeecat:MIME_SOURCE>charlie.jpg</bmeecat:MIME_SOURCE>
    <MIME_EMBEDDED>
      <MIME_DATA contentType="image/jpeg">bnVyIGVpbiBUZXN0bGF1Zg==</MIME_DATA>
    </MIME_EMBEDDED>
    <bmeecat:MIME_DESCR>Front view of our casual shirt</bmeecat:MIME_DESCR>
    <bmeecat:MIME_ALT>Photo of Charlie</bmeecat:MIME_ALT>
    <MIME_PURPOSE>normal</MIME_PURPOSE>
  </MIME>
</MIME_INFO>
```

FILE_HASH_VALUE

(Hash value of a file)

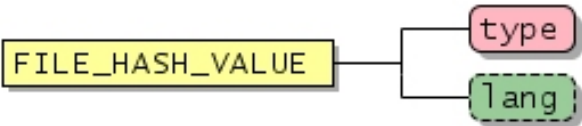
The element contains a hash value to an external referred file. The hash value can be used to check if the file was changed since the last generation of the hash value. Generally hash values serve as input for data comparison tasks.



This element can only be used once per language in a document.





New element
A list of available values was added. Example added.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
MIME	-	dtSTRING	100	-	21fd

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Methods of Hashing	type	Mandatory	<div>The attribute indicates the used hash-function. In germany the BNetzA or BSI guidelines are fundamental for legal certainty, therefore the used hash-function should match the guidelines.</div> <div>New attribute</div> <div>See also: Predefined values for attribute "type"</div>	-	dtSTRING	50	-	20fd
Language version of the file	lang	Optional	<div>The attribute "lang" indicates the language of the referenced file in MIME_SOURCE.</div> <div>New attribute</div>	-	dtLANG	-	-	20fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
SHA512	SHA512	SHA-512 Hash-function.	21fd
SHA384	SHA384	SHA-384 Hash-function.	21fd
SHA256	SHA256	SHA-256 Hash-function.	21fd
SHA1	SHA1	SHA-1 Hash-function.	21fd
MD5	MD5	MD5 Hash-function.	21fd
RIPEMD128	RIPEMD128	RIPEMD-128 Hash-function.	21fd
RIPEMD160	RIPEMD160	RIPEMD-160 Hash-function.	21fd
RIPEMD256	RIPEMD256	RIPEMD-256 Hash-function.	21fd
RIPEMD320	RIPEMD320	RIPEMD-320 Hash-function.	21fd
Tiger192	Tiger192	Tiger-192 Hash-function.	21fd
Tiger160	Tiger160	Tiger-160 Hash-function.	21fd
Tiger128	Tiger128	Tiger-128 Hash-function.	21fd
HAVAL	HAVAL	HAVAL Hash-function.	21fd
PANAMA	PANAMA	PANAMA Hash-function.	21fd
WHIRLPOOL	WHIRLPOOL	WHIRLPOOL Hash-function.	21fd
LM-Hash	LMHash	LM-Hash-function.	21fd
NTLM	NTLM	NTLM Hash-function.	21fd
Userdefined type	User defined value, format: \w{1,50}	Any other or future Hash-function in format \w{1,50}. Regular Expression valid for any letter or number excluding whitespaces.	21fd

Example

```
<FILE_HASH_VALUE type="MD5">54fec8f377b45af5d6c78974g88ba98</FILE_HASH_VALUE>
```


MIME_EMBEDDED

(Embedded document)

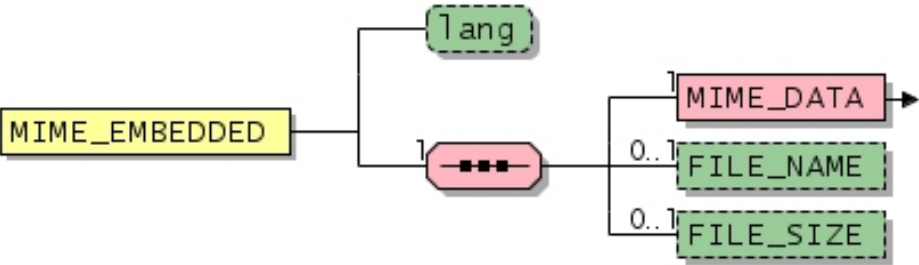
The element consists of a sub-element for the transmission of a file and sub-elements containing additional information (e.g. file name).




The element can only be used once per language, for example if three languages are implemented in the document this element can be used three times.






New element



General					
Used in		Default value	Data type	Field length	Lang. specific
MIME		-	-	-	20v2
Attributes					
Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type
Language version of the file	lang	Optional	<div>The attribute "lang" specifies the language of the embedded file. The encoding of the attribute value follows the corresponding data type dtLANG. This enables the implementation of more than one language in one document (see also Chapter: multilingual documents). In case of specifying more than one single-declared element to support a multilingual document all "lang"-attributes must contain different values (one unique value per language).</div> <div>New attribute</div>	-	dtLANG
					-
					-
					20v2

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coded data of the file	MIME_DATA - contentType	Mandatory	Single	Element contains binary-coded file 	-	base64Binary	-	-	20v2
Filename	FILE_NAME	Optional	Single	Name of the file  New element	-	dtSTRING	250	-	20v2
Filesize	FILE_SIZE	Optional	Single	Size of the File in Byte  New element	-	dtCOUNT	-	-	20v2

MIME_DATA

(Coded data of the file)

The element contains a binary-coded file, therefore the file is not referenced but included in the XML-document. The coded file must be generated using the 'base64' binary-to-text encoding scheme. See also <http://www.ietf.org/rfc/rfc2045.txt> for further details related to the base64 encoding scheme. For further details on how to embed files in XML-files visit <http://www.w3.org/TR/xml-media-types/>.



New element


MIME_DATA

contentType

General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
MIME_EMBEDDED	-	base64Binary	-	-	20v3

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
File type	contentType	Optional	<p>The attribute specifies the type of the embedded document according to the common used MIME-Ty-pes in the world wide web (ftp://ftp.isi.edu/in-notes/rfc1341.txt). The attribute is equivalent to the element MIME_TYPE but should be specified to ensure a better compatibility to the w3c-recommendation (http://www.w3.org/TR/xml-media-types/).</p> <p> New attribute</p>	-	string	-	-	20v2

INVOICE_ISSUER_IDREF

(Reference to invoicing party)

Reference to an unique identifier of the invoicing party. The element refers to a **PARTY_ID** in the same document.

If the document is used as a credit memo or advice of amendment (see also **INVOICE_TYPE**) the referred party of **INVOICE_ISSUER_IDREF** is additionally the recipient of the benefit/buyer.



New element

INVOICE_ISSUER_IDREF

type

General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO, INVOICELIST_ITEM	-	dtSTRING	250	-	20v2

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identifier of codification standard. "\w{1,250}" means that the identifier of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

INVOICE_RECIPIENT_IDREF

(Reference to the recipient of the invoice)

Reference to an unique identifier to the recipient of the invoice. The element refers to a **PARTY_ID** of an invoice recipient in the same document.If the document is used as a credit memo or advice of amendment (see also **INVOICE_TYPE**) the referred party of **INVOICE_RECIPIENT_IDREF** is also the supplier.

New element

```

graph LR
    A[INVOICE_RECIPIENT_IDREF] --- B[type]
  
```

General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO, INVOICELIST_ITEM	-	dtSTRING	250	-	20v2

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identifier of codification standard. "\w{1,250}" means that the identifier of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

BUYER_IDREF

(Reference to the buyer) *namespace: BMECAT*

This element contains a reference to the buyer. The reference has to point to a (**PARTY_ID**) that is defined in the document (**PARTY** element).



This new element replaces together with the **PARTY** element the **BUYER** element.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO	-	dtSTRING	250	-	2005fd

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identificator of codification standard. "\w{1,250}" means that the identificator of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

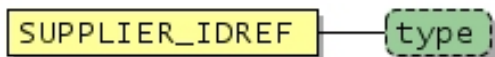
SUPPLIER_IDREF

(Reference to supplier) *namespace: BMECAT*

This element contains the unique identifier (**PARTY_ID**) of the respective party that is defined in the document (element **PARTY**).



This new element together with the **PARTY** replaces the **SUPPLIER** element.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO	-	dtSTRING	250	-	2005fd

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identificator of codification standard. "\w{1,250}" means that the identificator of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

PAYER_IDREF

(Reference to the payer)

Reference to a unique identifier of the payer. The element refers to a **PARTY_ID** in the same document.

New element

**General**

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO	-	dtSTRING	250	-	20v2

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

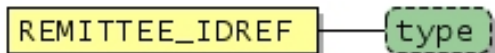
Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identificator of codification standard. "\w{1,250}" means that the identificator of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

REMITTEE_IDREF

(Reference to a remittee)

Refers to a unique identifier of the remittee. The element refers to the **PARTY_ID** of the remittee in the same document.

New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO	-	dtSTRING	250	-	20v2

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identificator of codification standard. "\w{1,250}" means that the identificator of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

DOCEXCHANGE_PARTIES_REFERENCE

(Document exchange parties)

The element contains references to the partners who take part in the document exchange.

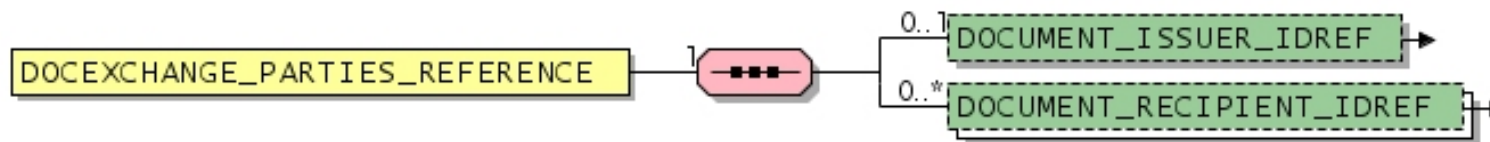
The first case to use this element is when various parties like intermediators, market-places or service providers are involved in parts of the processing (especially in the case of a centralized settlement). The second case is the usage of business documents which appear in different forms where the document-flow changes.

Example:

In the case of a payment advice the roles do not specify if the payer sends the document to explain a remittance or the remittee sends the document to explain a direct debit.





New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO	-	-	-	-	20v3

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Reference to the document issuer	DOCUMENT_ISSUER_IDREF - type	Optional	Single	The element refers to a unique identifier of the initiator or issuer of the business document. The element refers to a PARTY_ID in the same document 	-	dtSTRING	250	-	20v3
Reference to the document recipient	DOCUMENT_RECIPIENT_IDREF - type	Optional	Multiple	The element refers to a unique identifier of the recipient of the business document. The element refers to a PARTY_ID in the same document 	-	dtSTRING	250	-	20v3

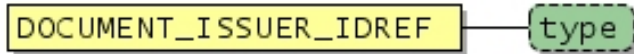
DOCUMENT_ISSUER_IDREF

(Reference to the document issuer)

The element refers to a unique identifier of the initiator or issuer of the business document. The element refers to a **PARTY_ID** in the same document.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
DOEXCHANGE_PARTIES_REFERENCE	-	dtSTRING	250	-	20v3

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identificator of codification standard. "\w{1,250}" means that the identificator of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

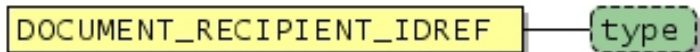
DOCUMENT_RECIPIENT_IDREF

(Reference to the document recipient)

The element refers to a unique identifier of the recipient of the business document. The element refers to a **PARTY_ID** in the same document.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
DOEXCHANGE_PARTIES_REFERENCE	-	dtSTRING	250	-	20v3

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

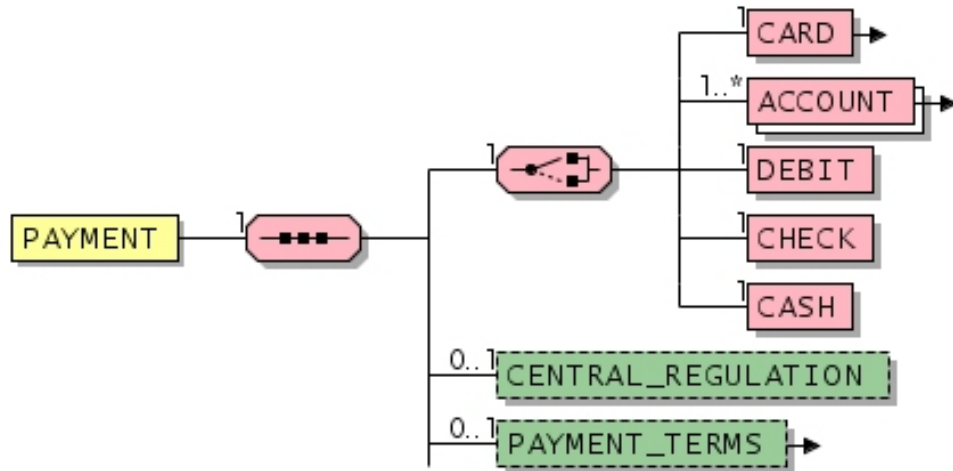
Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identificator of codification standard. "\w{1,250}" means that the identificator of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

PAYMENT

(Mode of payment)

The PAYMENT element summarizes information about the terms of payment. Exactly one term of payment must be used. If no information about payment is transferred (e.g. because this has been defined in a skeleton contract) the element is not used.








General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
INVOICELIST_INFO	-	-	-	-	2.0

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Card payment	CARD - type	Mandatory	Single	Use of credit cards, purchase cards etc. *	-	-	-	-	21fd
Bank account	ACCOUNT	Mandatory	Multiple	Bank account details *	-	-	-	-	21fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Debit notification	DEBIT	Mandatory	Single	The element DEBIT specifies the credit note procedure as payment system.  The sub-element PAYMENT_TERM was moved to PAYMENT_TERMS .	-	dtBOO- LEAN	-	-	20fd
Check payment	CHECK	Mandatory	Single	The element CHECK specifies paying by check as payment system.  The sub-element PAYMENT_TERM was moved to the element PAYMENT_TERMS .	-	dtBOO- LEAN	-	-	20fd
Cash payment	CASH	Mandatory	Single	The element CASH specifies cash payment as payment system .  The Sub-element PAYMENT_TERM was moved to the element PAYMENT_TERMS .	-	dtBOO- LEAN	-	-	20fd
Centralized settlement	CENTRAL_REGULATI- ON	Optional	Single	Indicates if the payment process is transacted via a centralized settlement  New element	false	dtBOO- LEAN	-	-	20v3
Term of payment	PAYMENT_TERMS	Optional	Single	Information to payment terms 	-	-	-	-	21

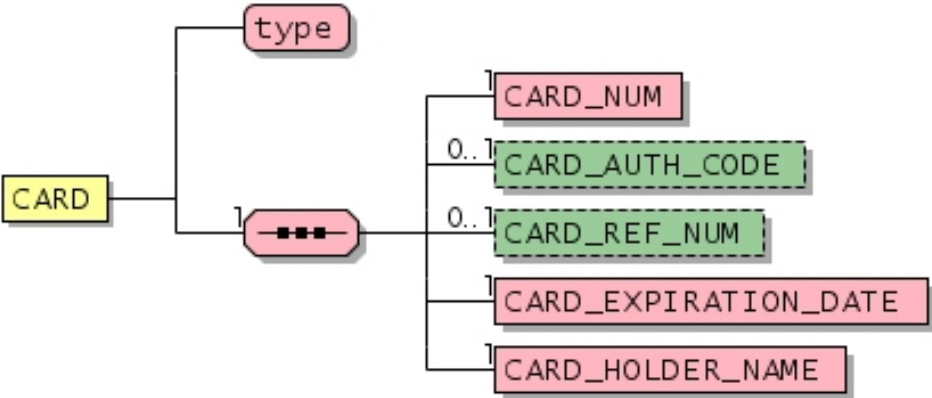
CARD

(Card payment)

The CARD element summarizes information about payment using credit or purchasing cards.



Subelements CARD_TYPE and CARD_OTHER replaced by the type-attribute of CARD. A list of available values was added. Example added.



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
PAYMENT	-	-	-	-	21fd


Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Card type	type	Mandatory	The type of the card. New attribute See also: Predefined values for attribute "type"	-	dtSTRING	50	-	21fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
MasterCard	MasterCard	MasterCard	21fd
VISA	VISA	VISA	21fd
American Express	AmericanExpress	American Express	21fd
Diners Club	DinersClub	Diners Club	21fd
JCB	JCB	JCB	21fd
Maestro	Maestro	Maestro	21fd
DiscoverCard	DiscoverCard	Discover Card	21fd
Transcard	Transcard	Transcard	21fd
DinaCard	DinaCard	DinaCard	21fd
ChinaUnionPay	ChinaUnionPay	China UnionPay	21fd
User-defined value	User defined value, format: \w{1,50}	Any other or future Hash-function in format \w{1,50}. Regular Expression valid for any letter or number excluding whitespaces.	21fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Card number	CARD_NUM	Mandatory	Single	Number of the credit or purchasing card	-	dtSTRING	16	-	2.0
PIN	CARD_AUTH_CODE	Optional	Single	 (Caution! - not recommended for use for insecure transmission!)	-	dtSTRING	10	-	2.0
Reference number	CARD_REF_NUM	Optional	Single	Customer reference number	-	dtSTRING	50	-	2.0
Expiration date	CARD_EXPIRATION_DATE	Mandatory	Single	Expiration date Example: "2001-03" for 03/2001	-	dtDATE-TIME	-	-	2.0
Card holder	CARD HOLDER_NAME	Mandatory	Single	Name of the card holder the credit card has been issued to.	-	dtSTRING	50	-	2.0

Example

```
<CARD type="VISA">
  <CARD_NUM>111222333444</CARD_NUM>
  <CARD_EXPIRATION_DATE>2009-05</CARD_EXPIRATION_DATE>
  <CARD HOLDER_NAME>Supershop Store International</CARD HOLDER_NAME>
</CARD>
```

PAYMENT_TERMS

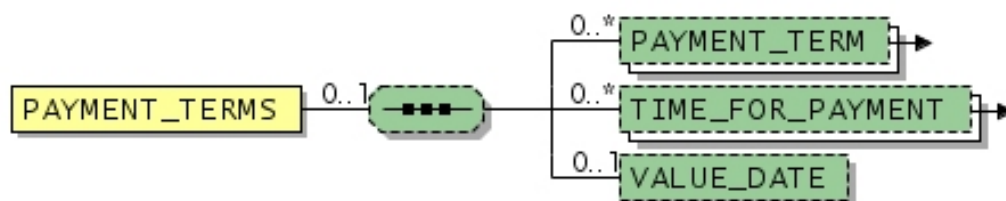
(Term of payment)

Information to payment terms



New element

Example added.



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
PAYMENT	-	-	-	-	21

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Term of payment	PAYMENT_TERM - type	Optional	Multiple	The information can be given according to UN/ECE or be company-specific.	-	dt STRING	250	-	2.0
Time for payment	TIME_FOR_PAYMENT	Optional	Multiple	Information to time-related payment details like period for payment, early payment discounts 	-	-	-	-	21
Value date	VALUE_DATE	Optional	Single	Specifies the value date. If the time for payment are not specified using TIME_FOR_PAYMENT or only the DAYS are specified then the period of payment begins at this VALUE_DATE . Is the PAYMENT_DATE used then the element PAYMENT_DATE is decisive. New element The description of VALUE_DATE has been extended and an example has been added.	-	dt DATETIME	-	-	21

Example

Specification of the following details: time for payment is 30 days, 3% early payment discount for payment in a 10 day period, 1% early payment discount for payment within a 20 day period. The value-date states the beginning of the payment period by May 15th, 2009.

```
<PAYMENT_TERMS>
  <TIME_FOR_PAYMENT>
    <DAYS>30</DAYS>
  </TIME_FOR_PAYMENT>
  <TIME_FOR_PAYMENT>
    <DAYS>10</DAYS>
    <DISCOUNT_FACTOR>0.3</DISCOUNT_FACTOR>
  </TIME_FOR_PAYMENT>
  <TIME_FOR_PAYMENT>
    <DAYS>20</DAYS>
    <DISCOUNT_FACTOR>0.1</DISCOUNT_FACTOR>
  </TIME_FOR_PAYMENT>
  <VALUE_DATE>2009-05-15</VALUE_DATE>
</PAYMENT_TERMS>
```

PAYMENT_TERM

(Term of payment)

The information can be given according to UN/ECE or be company-specific.

PAYMENT_TERM

type

General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
PAYMENT_TERMS	-	dtSTRING	250	-	2.0

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Term of payment	type	Mandatory	Procedure according to which the term of payment is coded. See also: Permitted values for attribute "type"	-	dtSTRING	20	-	2.0

Permitted values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
UN/ECE	unece	Description of the term of payment according to UN/ECE convention 4279. (see http://www.unece.org/trade/untddid/d00b/tred/tred4279.htm)	-
Other	other	Means that there is no descriptive procedure to be used for the term of payment but a free text instead.	-

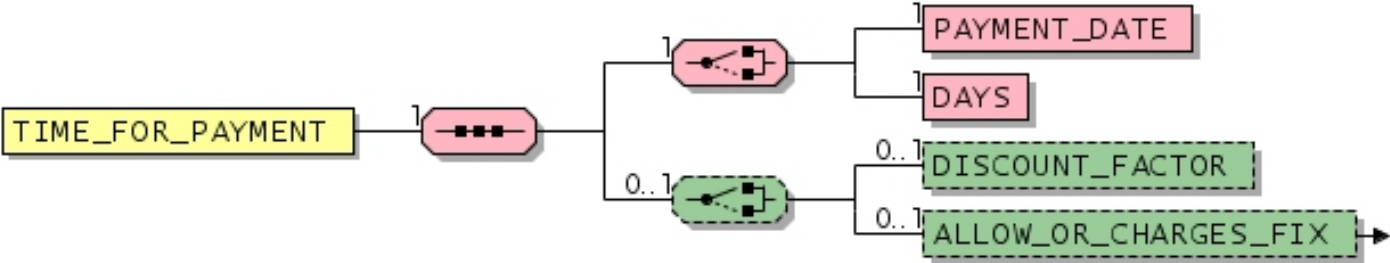
TIME_FOR_PAYMENT

(Time for payment)

The element contains information to time-related payment details like period for payment, early payment discounts. For specifying the period of payment the element **PAYMENT_DATE** (to set a date) or the element **DAYS** (to set a time-frame) can be used. In the case of no further specification of details the specified period for payment is the "net time for payment". The sub-element **DISCOUNT_FACTOR** specifies the factor used for a early payment discount. If the element **ALLOW_OR_CHARGES_FIX** is used any surcharges or discounts can be used (e.g. early payment discounts or late fees for exceeding the deadline for payment).



New element
Example changed and additional example added.





General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
PAYMENT_TERMS	-	-	-	-	21

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Time for payment	PAYMENT_DATE	Mandatory	Single	Time where the payment is supposed to be done. New element	-	dtDATE TIME	-	-	20v2
Days	DAYS	Mandatory	Single	Time designation by days New element	-	dtCOUNT	-	-	20fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Cash discount factor	DISCOUNT_FACTOR	Optional	Single	Factor to calculate the cash discount, e.g. 0.3 means 3% cash discount  New element	-	dt FLOAT	-	-	20fd
Fixed allowance or surcharges	ALLOW_OR_CHARGES_FIX	Optional	Single	A list of fixed allowances or surcharges which are to be applied on the price. 	-	-	-	-	21fd

Example

Specification of the following details: time for payment is May 30th, 3% early payment discount for payment until May 10th, 1% early payment discount for payment until May 20th. (see also **PAYMENT_TERMS** for an additional example)

```

<PAYMENT_TERMS>
  <TIME_FOR_PAYMENT>
    <PAYMENT_DATE>2009-05-30</PAYMENT_DATE>
  </TIME_FOR_PAYMENT>
  <TIME_FOR_PAYMENT>
    <PAYMENT_DATE>2009-05-20</PAYMENT_DATE>
    <DISCOUNT_FACTOR>0.1</DISCOUNT_FACTOR>
  </TIME_FOR_PAYMENT>
  <TIME_FOR_PAYMENT>
    <PAYMENT_DATE>2009-05-10</PAYMENT_DATE>
    <DISCOUNT_FACTOR>0.3</DISCOUNT_FACTOR>
  </TIME_FOR_PAYMENT>
</PAYMENT_TERMS>

```

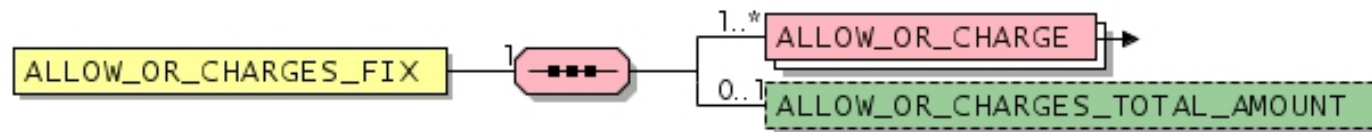
ALLOW_OR_CHARGES_FIX

(Fixed allowance or surcharges)

A list of fixed allowances or surcharges which are to be applied on the price.



New element
Example added.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
IL_INVOICE_LIST_ITEM, INVOICELIST_ITEM, TIME_FOR_PAYMENT	-	-	-	-	21fd

Elements


Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Fixed charge or allowance	ALLOW_OR_CHARGE - type	Mandatory	Multiple	Description of a fixed surcharge or allowance. Please notice the usage-advice at ALLOW_OR_CHARGE . 	-	-	-	-	21
Total amount of the allowances and surcharges	ALLOW_OR_CHARGES_TOTAL_AMOUNT	Optional	Single	Sum of all allowances and surcharges which lead to a monetary amount. Only those allowances and surcharges are considered which have a real amount (AOC_MONETARY_AMOUNT) in ALLOW_OR_CHARGE_VALUE or can be calculated via a percentage (AOC_PERCENTAGE_FACTOR). New element	-	dt FLOAT	-	-	20v1

Example

```
<ALLOW_OR_CHARGES_FIX>
  <ALLOW_OR_CHARGE type="allowance">
    <ALLOW_OR_CHARGE_TYPE>rebate</ALLOW_OR_CHARGE_TYPE>
    <ALLOW_OR_CHARGE_VALUE>
      <AOC_PERCENTAGE_FACTOR>10.00</AOC_PERCENTAGE_FACTOR>
    </ALLOW_OR_CHARGE_VALUE>
  </ALLOW_OR_CHARGE>
  <ALLOW_OR_CHARGES_TOTAL_AMOUNT>120</ALLOW_OR_CHARGES_TOTAL_AMOUNT>
</ALLOW_OR_CHARGES_FIX>
```

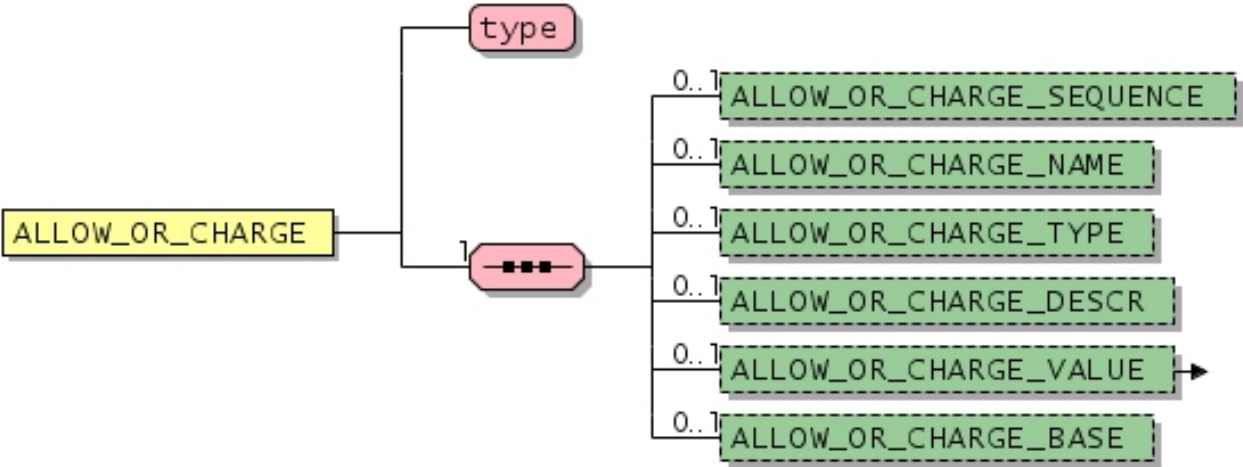
ALLOW_OR_CHARGE

(Fixed charge or allowance)

Description of a fixed surcharge or allowance.  Caution: Please ensure that the allowances and charges are only used at allowed document positions. E.g. cash_discounts should be used only in **PAYMENT_TERMS**




New element
Description more detailed.



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
ALLOW_OR_CHARGES_FIX	-	-	-	-	21






Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Allowance or surcharge	type	Mandatory	Indicates if the element is about an allowance or a surcharge.  New attribute See also: Permitted values for attribute "type"	-	dtSTRING	-	-	20v3

Permitted values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Allowance	allowance	The element is about an allowance.	20v3
Surcharge	surcharge	The element is about a surcharge.	20v3

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Calculation sequence	ALLOW_OR_CHARGE_SEQUENCE	Optional	Single	This element indicates the sequence for the application of the allowance or surcharge on the amount. The allowances or surcharges are applied in ascending order of the value of the element ALLOW_OR_CHARGE_SEQUENCE . That means the allowance or surcharge with the lowest value are applied first to the original amount or (if available) to the ALLOW_OR_CHARGE_BASE . Afterwards the surcharges are being added and the allowances are subtracted and the surcharges of the next higher value are determined based on the new calculated amount.	-	dtCOUNT	-	-	2.0v1
Allowance or surcharge-name	ALLOW_OR_CHARGE_NAME	Optional	Single	Short name for the allowance or surcharge (e.g. freight, packaging, ...)  New element	-	dtML-STRING	80	Yes	20v1
Allowance or surcharge-type	ALLOW_OR_CHARGE_TYPE	Optional	Single	Typification of the type of the allowance or surcharge (e.g. freight, postage and packing, ...).  New element See also: Predefined values for element ALLOW_OR_CHARGE_TYPE	-	dtSTRING	30	-	20v1
Allowance or surcharge description	ALLOW_OR_CHARGE_DESCR	Optional	Single	Textual description of the allowance or surcharge. This element can be used to supply additional information about the allowance or surcharge-reason. Examples: In case of island-surcharges the name of the island can be quoted here or the contract reference in case of project reimbursements.  New element	-	dtML-STRING	250	Yes	20v1
Allowance or surcharge value	ALLOW_OR_CHARGE_VALUE	Optional	Single	Description of the structure of the allowance or surcharge  New element	-	-	-	-	20v1
Allowance or surcharge-base	ALLOW_OR_CHARGE_BASE	Optional	Single	If declared, this element is the calculation base for the allowance or surcharge instead of the original value or the previous allowance or surcharge-calculations.  New element	-	dtFLOAT	-	-	20v2

Predefined values for element ALLOW_OR_CHARGE_TYPE

Designation	Element value	Explanation	l.chg. in ver.
Abroad	abroad	Abroad	20v2
Administration	administration	Administration	20v2
bulky goods	bulk_goods	bulky goods	20v2
Cash discount	cash_discount	Cash discount	20v2
Surcharge	charge	Surcharge	20v2
Cash on delivery	cod	C.O.D. cash on delivery service	20v2
Customs	customs	Customs	20v2
Customization	customization	Customization	20v3
Deposit	deposit	Deposit	20v2
Express	express	Express	20v2
Freight	freight	Freight	20v2
Handling	handling	Handling	20v2
Insurance	insurance	Insurance	20v2
Extra isle-charge	island	Surcharge for islands.	20v2
Surcharge for material	material	Surcharge for material	20v2
Packing	packing	Packing	20v2
Partial Quantity	partial_quantity	Partial Quantity	20v2
Period-bonus	period_bonus	Period-bonus (e.g. annual bonus)	20v2
Postage	postage	Postage	20v2
Project-bonus	project_bonus	Project-bonus	20v2
	overpackaging		-
Rebate	rebate	Rebate	20v2
Recycling	recycling	Recycling	20v2
Minimum quantitiy surcharge	small_order	Minimum quantitiy surcharge	20v2

Predefined values for element ALLOW_OR_CHARGE_TYPE

Designation	Element value	Explanation	l.chg. in ver.
Sundays, public holidays or night work	special_work_times	Sundays, public holidays or night work	20v2
Toll	toll	Toll	20v2
User defined type	User defined value, format: [w\-.]{1,30}	You can use any allowance or surcharge-types. The individual meaning has to be clarified between the partners. "w{1,30}" means that the name of a type has to be at least one character and be 20 characters in maximum.	-

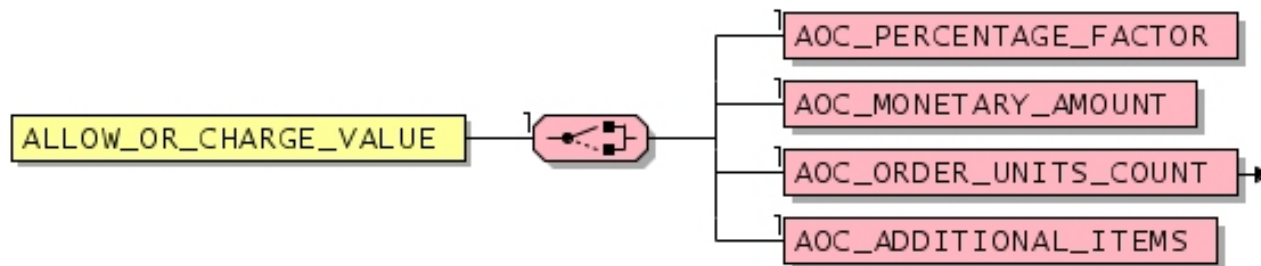
ALLOW_OR_CHARGE_VALUE

(Allowance or surcharge value)

A description of the structure of the allowance or surcharge. The type is defined in the related sub-element. Both allowances and surcharges are positiv values. The attribute **ALLOW_OR_CHARGE -->type** indicates an allowance or surcharge and thus indicates an increase or decrease of the original amount.



New element





General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
ALLOW_OR_CHARGE	-	-	-	-	20v1

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Prozentual Value	AOC_PERCENTAGE_FACTOR	Mandatory	Single	<p>The share of the product-value (factor) to determine the allowance or charge. The allowance or charge is calculated by multiply the AOC_PERCENTAGE_FACTOR by the (interim-)product-value which was calculated at this stage of the document. The currency is not different to the currency of the product-price.</p> <p> New element</p>	-	dtFLOAT	-	-	20v1
Monetary amount	AOC_MONETARY_AMOUNT	Mandatory	Single	<p>The allowance or charge is defined via an absolut value. The currency is identical with the product price currency.</p> <p> New element</p>	-	dtFLOAT	-	-	20v1

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Number of rebates in kind units	AOC_ORDER_UNITS_ COUNT - type	Mandatory	Single	Number of rebates or charge in kind units 	-	-	-	-	20v1
Additional Items	AOC_ADDITIONAL_ ITEMS	Mandatory	Single	Declaration if additional items are delivered. This field can is only permitted in case of be intended for other items than the items of the parent-product and -order-unit (ORDER_UNIT). In case of the same product the field AOC_ORDER_UNITS_COUNT has to be used.  New element	-	dtSTRING	250	-	20v1

AOC_ORDER_UNITS_COUNT

(Number of rebates in kind units)

The number of rebates or charges in kind units indicates the number of units which are delivered for free. The attribute **AOC_ORDER_UNITS_COUNT -->type** indicates a bonus or an additional charge.



New element

AOC_ORDER_UNITS_COUNT

type

General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
ALLOW_OR_CHARGE_VALUE	-	-	-	-	20v1

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Type of the rebate in kind	type	Mandatory	Indicates a bonus or an additional unit. See also: Permitted values for attribute "type"	-	dtSTRING	20	-	-

Permitted values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
Bonus (bonus included in order)	inclusive	The specified units are give-aways and are subtracted from the ordered quantity (QUANTITY) while the total amount is being calculated.	-
Extra Bonus (bonus excluded from order)	exclusive	The specified units are an extra bonus in addition to the ordered QUANTITY .	-

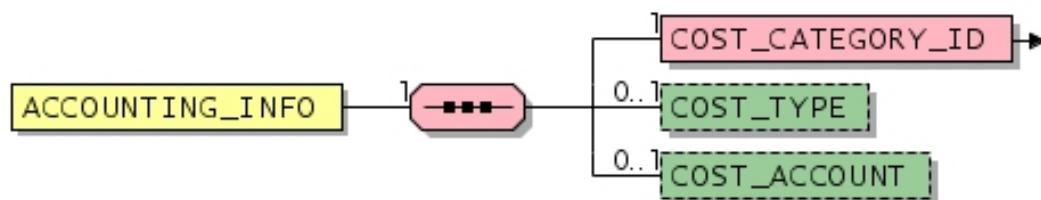
ACCOUNTING_INFO

(Accounting information) *namespace: BMECAT*

This element contains information about accounting processes which occur at the buying company as a result of the order. This information includes the number of the identification of the cost category concerned, the type of cost as well as the actual account. The accounting information is given by the buying company so that the supplier can indicate it on the invoice, which in turn facilitates checking and auditing invoices at the buying company.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
INVOICELIST_INFO	-	-	-	-	2005fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Cost category	COST_CATEGORY_ID - type	Mandatory	Single	Number of the cost center to be charged or the project or work order to which the charge must be made. The type of cost category is fixed by the attribute "type". <i>namespace: BMECAT</i> New element	-	dtSTRING	64	-	2005fd
Type of cost	COST_TYPE	Optional	Single	Information about the type of cost, e.g. investment, service, consumption, etc. <i>namespace: BMECAT</i> New element	-	dtSTRING	64	-	2005fd
Cost account	COST_ACCOUNT	Optional	Single	Number of the main account to be charged <i>namespace: BMECAT</i> New element	-	dtSTRING	64	-	2005fd

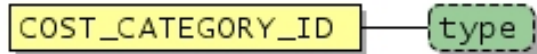
COST_CATEGORY_ID(Cost category) *namespace: BMECAT*

Number of the cost center to be charged or the project or work order to which the charge must be made.

The type of cost category is fixed by the attribute "type".



New element

**General**

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
ACCOUNTING_INFO	-	dtSTRING	64	-	2005fd

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Type of cost category	type	Optional	It is specified here whether the costs are to be charged to a cost center, project or work order. If the attribute is not used no exact specification is made. See also: Permitted values for attribute "type"	-	dtSTRING	20	-	2005fd

Permitted values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
Cost center	cost_center	The costs are charged to a cost center.	2005fd
Project	project	The costs are charged to a project.	2005fd
Work order	work_order	The costs are charged to a work order.	2005fd

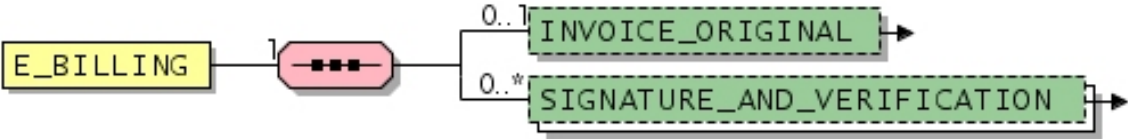
E_BILLING

(E-Billing informations)

This Element includes informations in the context of E-Billing.





New element
Changes for the integration of XML-Signatures (see also **Signature**).



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_INFO	-	-	-	-	21fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Original invoice	INVOICE_ORIGINAL	Optional	Single	Represents the invoice document in the case that the openTRANS document is not the original invoice(e.g. as .pdf or grafical file) 	-	-	-	-	20fd
Signature and verification report	SIGNATURE_AND_VERIFICATION	Optional	Multiple	Information regarding the electronic signature and the verification report 	-	-	-	-	21fd

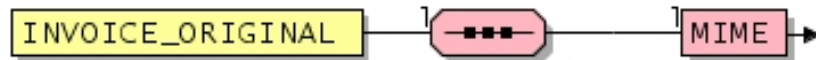
INVOICE_ORIGINAL

(Original invoice)

Represents the invoice document in the case that the openTRANS document is not the original invoice(e.g. as .pdf or grafical file)




New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
E BILLING	-	-	-	-	20fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Multimedia document	MIME	Mandatory	Single	Information about a multimedia file. The file itself is can be referenced and transferred separately or directly binary-coded in the document via the element MIME_EMBEDDED . ???For example logos, company profiles or other business partner related documents could be added here. 	-	-	-	-	21fd

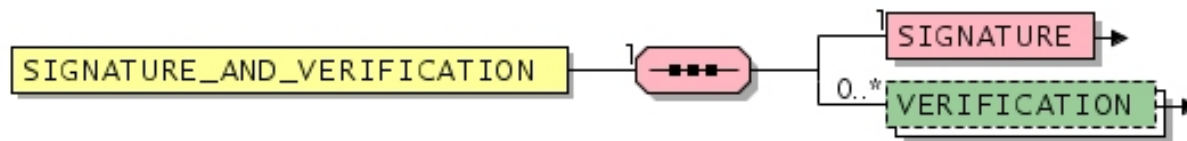
SIGNATURE_AND_VERIFICATION

(Signature and verification report)

Information regarding the electronic signature and the verification report



New element
Example added.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
E_BILLING	-	-	-	-	21fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Signature-container	SIGNATURE	Mandatory	Single	Signature information 	-	-	-	-	20fd
Signature verification information	VERIFICATION	Optional	Multiple	Information related to a verification process of a signature 	-	-	-	-	20fd

Example

```

<SIGNATURE_AND_VERIFICATION>
  <SIGNATURE>
    <MIME>
      <bmeecat:MIME_SOURCE>key.asc</bmeecat:MIME_SOURCE>
      <FILE_HASH_VALUE type="MD5">54fec8f377b45af5d6c487110b88ba98</FILE_HASH_VALUE>
      <MIME_PURPOSE>signatur_file</MIME_PURPOSE>
    </MIME>
  </SIGNATURE>
  <VERIFICATION>
    <VERIFICATION_PARTY_IDREF>supersigner</VERIFICATION_PARTY_IDREF>
    <VERIFICATION_SUCCESS>TRUE</VERIFICATION_SUCCESS>
    <VERIFICATION_REPORT>
      <VERIFICATION_ATTACHMENT>
        <MIME>
          <bmeecat:MIME_SOURCE>report.xml</bmeecat:MIME_SOURCE>
          <FILE_HASH_VALUE type="MD5">54fec8f377b45af5d6c78974g88ba98</FILE_HASH_VALUE>
          <MIME_PURPOSE>verification_report</MIME_PURPOSE>
        </MIME>
      </VERIFICATION_ATTACHMENT>
    </VERIFICATION_REPORT>
  </VERIFICATION>
</SIGNATURE_AND_VERIFICATION>

```

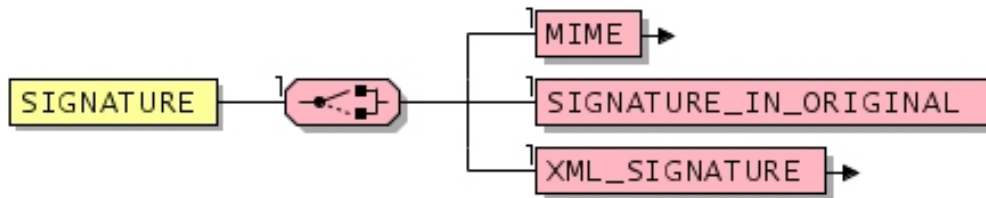
SIGNATURE

(Signature-container)

The element contains information about a signature of the document. The signature can be referenced (via **MIME**) or included in the original document (see also **INVOICE_ORIGINAL**) or directly integrated in the document (via **XML_SIGNATURE**). Only one of the three options is valid, therefore only one of the three sub-elements can be used.






New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
SIGNATURE_AND_VERIFICATION	-	-	-	-	20fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Multimedia document	MIME	Mandatory	Single	Information about a multimedia file. The file itself is can be referenced and transferred separately or directly binary-coded in the document via the element MIME_EMBEDDED . ???For example logos, company profiles or other business partner related documents could be added here. 	-	-	-	-	21fd
Signature in the original document	SIGNATURE_IN_ORIGINAL	Mandatory	Single	Evaluating to 'true' the element specifies that the signature is contained in the original document (see also INVOICE_ORIGINAL). Notice: The element cannot evaluate to 'false'. To express that the signature is not in the original document one simply do not use this element and one of the other two options is being used (MIME or XML_SIGNATURE).  New element	-	dtBOO-LEAN	-	-	20fd
Integrated signature	XML_SIGNATURE	Mandatory	Single	An electronic signature of the business document can be inserted here 	-	-	-	-	21fd

XML_SIGNATURE

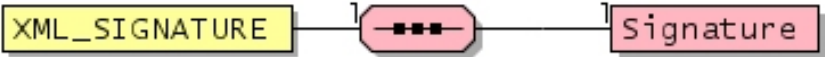
(Integrated signature)

The element contains the signature related to the document. The XML-structure is specified according to the w3c XML-Signature recommendation (see also <http://www.w3.org/TR/xmlsig-core/>). See Element **E_BILLING** for an example.



New element


The element Signature of type SignatureType now refers to the element of the W3C to keep w3c-conformity. Therefore it has the namespace xsig.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
SIGNATURE	-	-	-	-	21fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Signature in XML format according to the w3c-requirements	Signature	Mandatory	Single	<p>Contains elements for the digital signature in XML according to the w3c-recommendation available at http://www.w3.org/TR/xmldsig-core/. <i>namespace: xsig</i></p> <p></p> <p>New element</p> <p>Example</p> <pre><xsig:Signature> <xsig:SignedInfo> <xsig:CanonicalizationMethod Algorithm="http://www.w3.org/2006/12/xml-c14n11#WithComments"> </xsig:CanonicalizationMethod> <xsig:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#dsa-sha1"> </xsig:SignatureMethod> <xsig:Reference> <xsig:DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1">asdsferWY- afs34d6gCsdbsbcDSfDFHfTHZssdbufd3=</xsig:DigestMethod> <xsig:DigestValue></xsig:DigestValue> </xsig:Reference> </xsig:SignedInfo> <xsig:SignatureValue> UjBsR09EbGhjZ0dTQUxNQUFBUUNBRUltQ1p0dU1GUXhEUzhi </xsig:SignatureValue> <xsig:KeyInfo> <xsig:KeyName>authors@opentrans.org</xsig:KeyName> <xsig:KeyValue> <xsig:RSAKeyValue> <xsig:Modulus> 8idBHZSrJuCeMT5jMnrIa/lVsQvbCSughfOGuS9sPyKjHivqZX3kJ4/dNanmL/g1Jr YsoZ- loLC2Qq4lSmtTP/dw+6VdIB0YYn4XjRzEP6S2vgg5G6Fgd5ctEEBSWtkAKPdeFhA64 p2irkn0RCWLzVuwgtVPElMr1tN97jvb4i2k=</xsig:Modulus> <xsig:Exponent>AQAB</xsig:Exponent> </xsig:RSAKeyValue> </xsig:KeyValue> </xsig:KeyInfo> </xsig:Signature></pre>	-	-	-	-	21fd

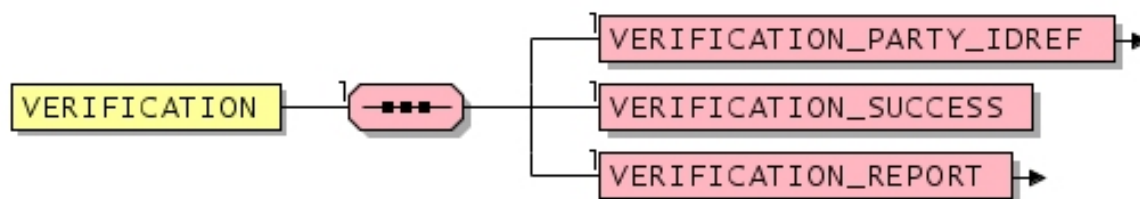
VERIFICATION

(Signature verification information)

The element is used to use signatures in openTRANS-documents. The underlying XML-structure follows the data type **SignatureType** and the recommendation of the w3c (see also <http://www.w3.org/TR/2002/REC-xmlsig-core-20020212/>).



New element



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
SIGNATURE_AND_VERIFICATION	-	-	-	-	20fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Reference to the signature verifier	VERIFICATION_PARTY_IDREF - type	Mandatory	Single	Reference to a unique identifier to the organization that verified the signature. The element refers to a PARTY_ID in the same document. 	-	dtSTRING	250	-	20fd
Verification result	VERIFICATION_SUCCESS	Mandatory	Single	The element summarizes the result of the signature verification. A successful verification evaluates to 'true' otherwise to 'false'. New element	-	dtBOOLEAN	-	-	20fd
Verification report	VERIFICATION_REPORT	Mandatory	Single	Report related to the verification of a signature 	-	-	-	-	20fd

VERIFICATION_PARTY_IDREF

(Reference to the signature verifier)

Reference to a unique identifier to the organization that verified the signature. The element refers to a **PARTY_ID** in the same document.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
VERIFICATION	-	dtSTRING	250	-	20fd

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identificator of codification standard. "\w{1,250}" means that the identificator of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

VERIFICATION_REPORT

(Verification report)

The element refers or directly contains a report to the verification of the signature. There are three options to refer to the report. The report can be in an extra file (e.g. as PDF or XML) and is referred via the **VERIFICATION_ATTACHMENT** element. The second option is to specify the verification results as XML-verification protocol (**VERIFICATION_PROTOCOL**). The last option is to directly integrate the verification report in a special XML-format in the document (via **VERIFICATION_XMLREPORT**).

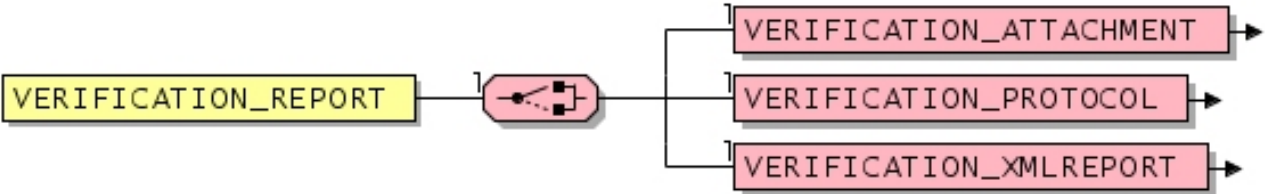
Since a lack of standardization in the area of verification reports the following minimum information should be transmitted:

- unique name of the signer
- unique name of the publisher
- serial number
- valid from / to
- used methods and the key-length
- online-verification successful
- superior certificate found
- time of verification
- time of signature
- possible restrictive certificates in plain text

Minimum requirement is the block "signer". All superior certificate/signatures should be declared in the summary likewise the number of successful or not successful online-verifications. Since a signer(1) is usually certified by a Trusted Entity(2) and the Trusted Entity is usually certified by a Root-CA (certification authority)(3) the successful verification evaluates to 3/3 successful tests. In case of not successful verifications the reason should be declared (rejected, disabled, expired, not valid ...).






New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
VERIFICATION	-	-	-	-	20fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Verification report as (integrated) file	VERIFICATION_AT- TACHMENT	Mandatory	Single	Reference to a verification report as a file or binary-coded and integrated in the document. 	-	-	-	-	20fd
Verification report as XML protocol	VERIFICATION_PROTO- COL	Mandatory	Single	Verification report as XML protocol 	-	-	-	-	20fd
Verification report in XML	VERIFICATION_XMLRE- PORT	Mandatory	Single	Verification report in XML-structure 	-	-	-	-	20fd

VERIFICATION_ATTACHMENT

(Verification report as (integrated) file)

Reference to a verification report as a file or binary-coded and integrated in the document. The element utilizes the **MIME** element to refer to a file or deliver an integrated structure.




New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
VERIFICATION_REPORT	-	-	-	-	20fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Multimedia document	MIME	Mandatory	Single	Information about a multimedia file. The file itself is can be referenced and transferred separately or directly binary-coded in the document via the element MIME_EMBEDDED . ???For example logos, company profiles or other business partner related documents could be added here. 	-	-	-	-	21fd

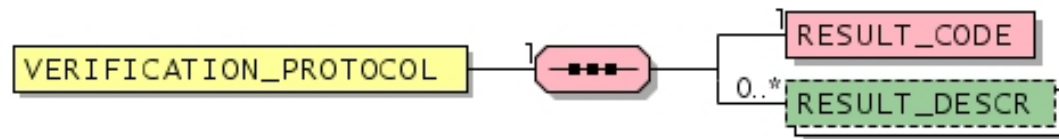
VERIFICATION_PROTOCOL

(Verification report as XML protocol)

The element contains a representation of the protocol records coded in the **RESULT_CODE** and a description of the record (**RESULT_DESCR**).



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
VERIFICATION_REPORT	-	-	-	-	20fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coded protocol record	RESULT_CODE	Mandatory	Single	Coded protocol record. Since a lack of standards in the area of signature verification reports the used coding-standard should be constituted between the partners. New element	-	dtSTRING	20	-	20fd
Protocol record description	RESULT_DESCR	Optional	Multiple	Description of a protocol record in a human-readable form. New element	-	dtML-STRING	-	-	20fd

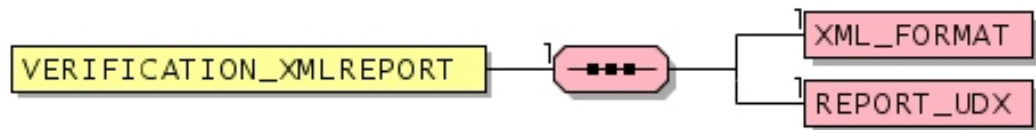
VERIFICATION_XMLREPORT

(Verification report in XML)

Verification report in XML-structure



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
VERIFICATION_REPORT	-	-	-	-	20fd

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
XML format	XML_FORMAT	Mandatory	Single	The element describes the XML-structure in REPORT_UDX . Notice: the standard-format for the name should follow "<Name>-<Major Version>.<Minor Version>". Example: SigRepo-7.14 New element	-	dtSTRING	50	-	20fd
User defined verification report of a signature	REPORT_UDX	Mandatory	Single	With the help of this element signature verification reports can be represented in XML-structures not specified in openTRANS. The element can be used like the ITEM_UDX element. New element	-	udxREPORT	-	-	20fd

REMARKS

(Remark)

This element contains remarks related to a business document.

The remark is identified with the attribute "type" for use in different business documents.

It is only permissible to identify remarks for use in this or the following business documents using the attribute "type".

Target systems are recommended to ignore remarks about previous business documents (History).

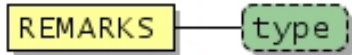
It is permissible to use the element more than once with the same "type" attribute.

Format: The following HTML tags are supported: for bold, <i> for italic, <p> for paragraphs,
 for line break and / for lists. In order to transfer these, the characters '<' and '>' must be enclosed in quotation marks, or the file will not be accepted by the XML parser (see also chapter **Character encoding in XML**).

Example: '<' = < or '>' = >




The target system must support the interpretation of the day in order to achieve the desired formatting.



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
INVOICELIST_INFO, INVOICELIST_ITEM	-	dtML-STRING	64000	Yes	-

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Type of remark	type	Optional	<p>Specifies the type of remark. The remark is identified for use in a variety of business documents. The business partner processing the document which matches the attribute evaluates the information contained, otherwise the information is passed on along the process chain.</p> <p>Example: type=deliverynote means that the remark entered appears on the delivery note , e.g. "Please ring at the ramp and ask for Mr Miller".</p> <p> New attribute</p> <p>See also: Predefined values for attribute "type"</p>	-	dtSTRING	250	-	2005fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Delivery note	deliverynote	The remark is identified for use in the business document DELIVERYNOTE (general presumption that the delivery note currently exists in paper form only, as document accompanying the goods)	2005fd
Dispatch notification	dispatchnotification	The remark is identified for use in the business document DISPATCHNOTIFICATION	2005fd
General	general	The remark contained is of a general kind and not limited to usage in a specific business document.	2005fd
Invoice	invoice	The remark is identified for use in the business document INVOICE	2005fd
Order	order	The remark is identified for use in the business document ORDER	2005fd
Order change	orderchange	The remark is identified for use in the business document ORDERCHANGE	2005fd
Order response	orderresponse	The remark is identified for use in the business document ORDERRESPONSE	2005fd
Quotation	quotation	The remark is identified for use in the business document QUOTATION	2005fd
Confirmation of receipt of goods	receiptacknowledgement	The remark is identified for use in the business document RECEIPTACKNOWLEDGEMENT	2005fd
Payment advice	remittanceadvice	The remark is identified for use in the business document REMITTANCEADVICE	20v3
Invoice list	invoicelist	The remark is identified for use in the business document INVOICELIST	20v3
Request for submission of quotation	rfq	The remark is identified for use in the business document RFQ	2005fd
Transport	transport	The remark is identified for use in the business document TRANSPORT	2005fd
User defined type	User defined value, format: \w{1,250}	User defined type identification. "\w{1,250}" means that the type identification has to be at least 1 character long up to a maximum of 250 characters.	2005fd

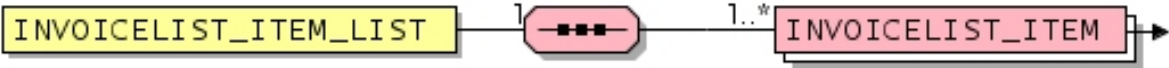
INVOICELIST_ITEM_LIST

(Item level)

The element represents the item line level of an invoice list and consists of the particular invoice groupings.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST	-	-	-	-	20v2

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Item line	INVOICELIST_ITEM	Mandatory	Multiple	The item line contains informations to a group of invoices 	-	-	-	-	20v2

INVOICELIST_ITEM

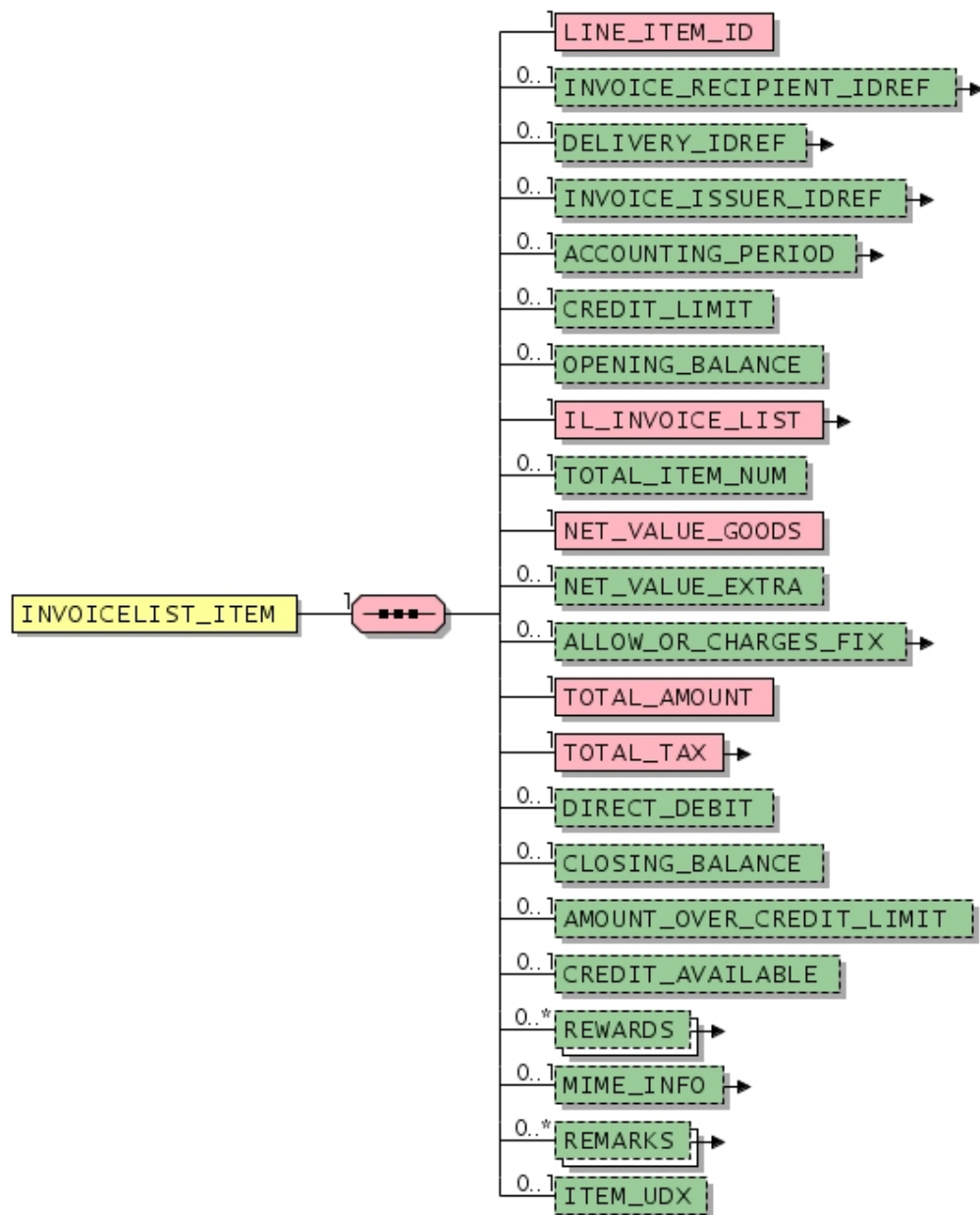
(Item line)

An item line refers to a group of invoices in the invoice list. These invoices are grouped in the summary.

There may appear several item lines but there has to be at least one item line.










New element












General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
INVOICELIST_ITEM_LIST	-	-	-	-	20v2






Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Item number	LINE_ITEM_ID	Mandatory	Single	The item ID number is used to uniquely identify the item line of an order within that order. In combination with the order number and the buyer the item number represents a unique ID number outside the business process concerned.Example.: P100012	-	dtSTRING	50	-	2.0
Reference to the recipient of the invoice	INVOICE_RECIPIENT_IDREF - type	Optional	Single	Reference to an unique identifier to the recipient of the invoice. The element refers to a PARTY_ID of an invoice recipient in the same document 	-	dtSTRING	250	-	20v2
Reference to final recipient	DELIVERY_IDREF - type	Optional	Single	Reference to the unique identifier of the final recipient (shipping address and contact). The element has to refer to a PARTY_ID in the same document. 	-	dtSTRING	250	-	20v2
Reference to invoicing party	INVOICE_ISSUER_IDREF - type	Optional	Single	Reference to an unique identifier of the invoicing party. The element refers to a PARTY_ID in the same document. 	-	dtSTRING	250	-	20v2
Accounting period	ACCOUNTING_PERIOD	Optional	Single	The time period reflected by a set of invoices 	-	-	-	-	20v2
Credit Limit	CREDIT_LIMIT	Optional	Single	The credit limit or credit line is the maximum amount you can borrow against your credit card. See CLOSING_BALANCE for an example.  New element	-	dtNUMBER	-	-	21
Opening Balance	OPENING_BALANCE	Optional	Single	The opening balance or old balance is equivalent to the new balance of the last credit card statement. It is used as a basis to prepare the current statement.  Please note: Subject to the used statement (credit, pre-paid), this amount can be e.g. the amount owed at the time of the last statement. The usage of +/- signs has to be clarified between the parties. Please refer to CLOSING_BALANCE for an example.  New element	-	dtNUMBER	-	-	21



Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Invoice list	IL_INVOICE_LIST	Mandatory	Single	List of every single invoices in a group of invoices 	-	-	-	-	20v3
Number of item lines	TOTAL_ITEM_NUM	Optional	Single	Contains the total number of item lines in the business document. The information is redundant and is for the purposes of statistical evaluation (e.g. by an intermediary) if appropriate.	-	dtCOUNT	-	-	2.0
Net value	NET_VALUE_GOODS	Mandatory	Single	Total amount of all items in this invoice excluding taxes  New element Description adapted to a more comprehensible one	-	dtNUMBER	-	-	21
Net value special items	NET_VALUE_EXTRA	Optional	Single	Net value of extra or special items (e.g. postage or handling charges)  New element	-	dtNUMBER	-	-	20v1
Fixed allowance or surcharges	ALLOW_OR_CHARGES_FIX	Optional	Single	A list of fixed allowances or surcharges which are to be applied on the price. 	-	-	-	-	21fd
Total amount	TOTAL_AMOUNT	Mandatory	Single	Total amount covering all items in this business document.  Changed definition: Gross price including surcharges, deductions and all taxes. Where no price per item can be given as the item level (e.g. bills of materials where explosion is not possible), the total price can be entered here.   Changed definition	-	dtNUMBER	-	-	20
Total taxes	TOTAL_TAX	Mandatory	Single	List of the tax amount 	-	-	-	-	20v1
Direct debit	DIRECT_DEBIT	Optional	Single	Amount which is debited from the account. This element appears in documents of invoice-lists. Usually the direct debit results from a negative total amount on a credit card statement. This depends on credit card institute and country of the document. Please refer to CLOSING_BALANCE for further details on this issue and an example.  New element	-	dtNUMBER	-	-	21

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Closing Balance	CLOSING_BALANCE	Optional	Single	<p>The Closing balance or new balance represents the sum of the opening balance (OPE-NING_BALANCE), the various positions in the document including finance charges, taxes etc. (TOTAL_AMOUNT) and the direct debited amount (DIRECT_DEBIT).</p> <p> Please note: Subject to the used statement (credit, pre-paid) and the country of the credit-institute, this amount can be e.g. the amount owed at the time of the last statement. The usage of +/- signs has to be clarified between the parties. In some countries credit card statements present debts with positive amounts.</p> <p> New element</p> <p>Example:</p> <pre> <CREDIT_LIMIT>+1000.00</CREDIT_LIMIT> <OPENING_BALANCE>+0.0</OPENING_BALANCE> <IL_INVOICE_LIST> <IL_INVOICE_LIST_ITEM>... </IL_INVOICE_LIST_ITEM> </IL_INVOICE_LIST> <NET_VALUE_GOODS>-295.31</NET_VALUE_GOODS> <TOTAL_AMOUNT>-332.71</TOTAL_AMOUNT> <TOTAL_TAX> <TAX_DETAILS_FIX> <bmeecat:TAX_TYPE>vat</bmeecat:TAX_TYPE> <bmeecat:TAX>0.19</bmeecat:TAX> <TAX_AMOUNT>-37.40</TAX_AMOUNT> </TAX_DETAILS_FIX> </TOTAL_TAX> <DIRECT_DEBIT>+332.71</DIRECT_DEBIT> <CLOSING_BALANCE>+0.0</CLOSING_BALANCE> <CREDIT_AVAILABLE>1000.00</CREDIT_AVAILABLE> </pre>	-	dtNUM-BER	-	-	21
Total tax amount	AMOUNT_OVER_CRE-DIT_LIMIT	Optional	Single	<p>Indicates by what amount your balance exceeded your credit limit (CREDIT_LIMIT).</p> <p> New element</p>	-	dtNUM-BER	-	-	21
Available credit	CREDIT_AVAILABLE	Optional	Single	<p>It is the difference between your credit limit and total amount due. See CLOSING_BALANCE for an example.</p> <p> New element</p>	-	dtNUM-BER	-	-	21
Rewards	REWARDS	Optional	Multiple	<p>This element provides the possibility to publish the rewards points which appeared with transactions. The element can be used directly for transactions in IL_INVOICE_LIST_ITEM and as summary in the element INVOICELIST_ITEM.</p> <p></p>	-	-	-	-	21

Elements

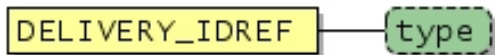
Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Additional multimedia information	MIME_INFO	Optional	Single	Information about multimedia files	-	-	-	-	-
Remark	REMARKS - type	Optional	Multiple	Remark related to a business document	-	dtML- STRING	64000	Yes	-
User-defined extension	ITEM_UDX	Optional	Single	<p>This element can be used for transferring information in user-defined non-open-TRANS-elements; hence it is possible to extend the pre-defined set of openTRANS-elements by user-defined ones. The usage of those elements results in openTRANS business documents, which can only be exchanged between the companies that have agreed on these extensions. The structure of these elements can be very complex, though it must be valid XML.</p> <p></p> <p><User Defined Extensions> are defined exclusively as optional fields. Therefore, it is expressly pointed out that if user-defined extensions are used they must be compatible with the target systems and should be clarified on a case-to-case basis.</p> <p>The names of the elements must be clearly distinguishable from the names of other elements contained in the openTRANS standard. For this reason, all element must start with the string "UDX" (Example: <UDX.supplier.elementname>).</p> <p>The definition of user-defined extensions takes place by additional XML DTD or XML Schema files.</p> <p></p> <p>New element</p> <p>Example: usage of the non-openTRANS elements (XML)</p> <pre><HEADER> <CATALOG> ... </CATALOG> ... <USER_DEFINED_EXTENSIONS> <UDX.MYORG.REBATEGROUP>A1</UDX.MYORG.REBATEGROUP> <UDX.MYORG.REBATEFACTOR>0.13</UDX.MYORG.REBATEFACTOR> </USER_DEFINED_EXTENSIONS> </HEADER></pre>	-	udxITEM	-	-	20v1

DELIVERY_IDREF

(Reference to final recipient)

Reference to the unique identifier of the final recipient (shipping address and contact). The element has to refer to a **PARTY_ID** in the same document.

New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST_ITEM	-	dtSTRING	250	-	20v2

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Coding standard	type	Optional	This attribute is used to state the coding standard to which the identifier (PARTY_ID) adheres. The most common coding standards are predefined. See also: Predefined values for attribute "type"	-	dtSTRING	250	-	1.2_fd

Predefined values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Buyer-specific number	buyer_specific	Identification number defined by the buyer	-
Customer specific number	customer_specific	Identification number defined by the customer	2005fd
Dun & Bradstreet	duns	DUNS-Number (see also http://dbuk.dnb.com/english/DataBase/duns.htm)	-
Global location number	iln	Internationally called GLN (see GLN below)	-
Global location number	gln	Global Location Number GLN (see also http://www.ean-int.org/locations.html)	2005fd
Party-specific number	party_specific	Identification number defined by the respective party	2005fd
Supplier-specific number	supplier_specific	Identification number defined by the supplier	-
Other codification standard	User defined value, format: \w{1,250}	Identificator of codification standard. "\w{1,250}" means that the identificator of the codification standard has to be at least 1 character long up to a maximum of 250 characters.	-

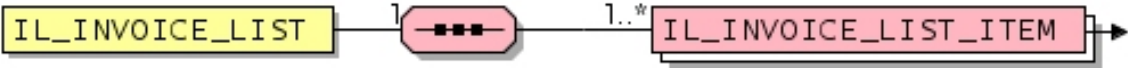
IL_INVOICE_LIST

(Invoice list)

List of every single invoices in a group of invoices




New element



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
INVOICELIST_ITEM	-	-	-	-	20v3

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Invoice list item summary	IL_INVOICE_LIST_ITEM	Mandatory	Multiple	Summary and reference to a single invoice in a list of invoices 	-	-	-	-	20v3

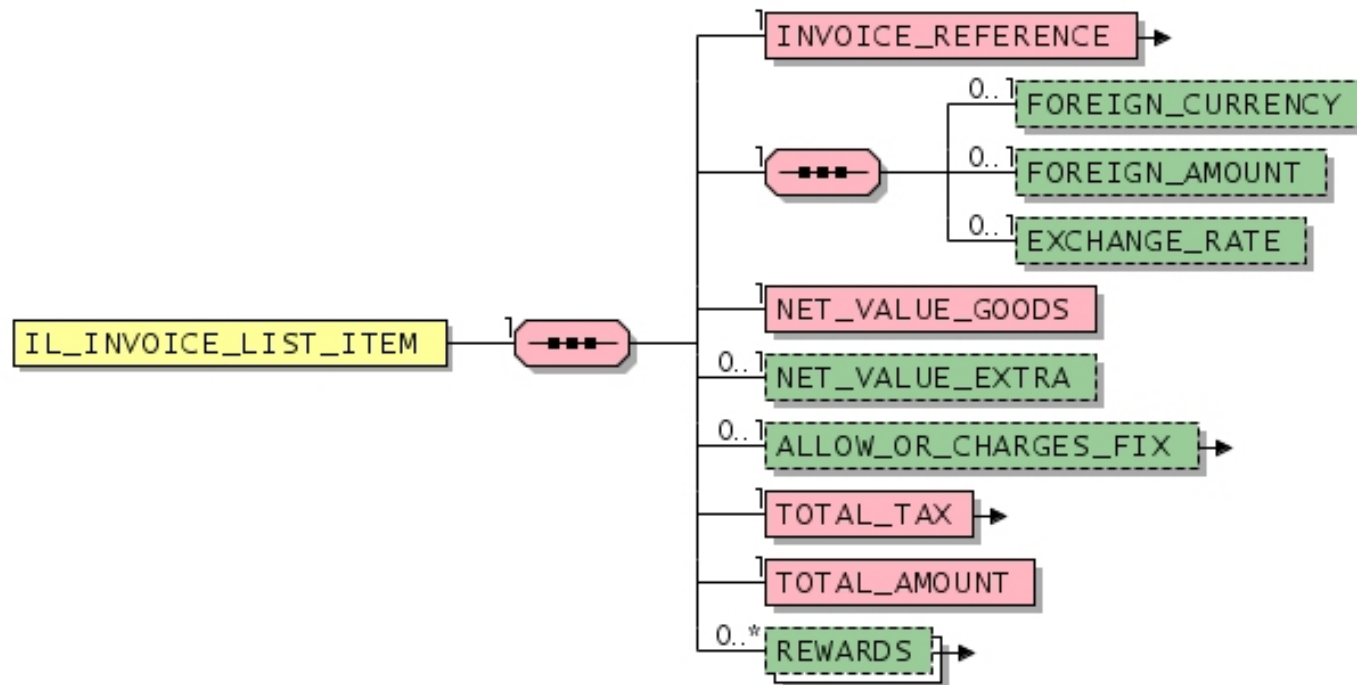
IL_INVOICE_LIST_ITEM

(Invoice list item summary)

Summary and reference to a single invoice in a list of invoices











New element





**General**

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
IL_INVOICE_LIST	-	-	-	-	20v3

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Invoice reference	INVOICE_REFERENCE - type	Mandatory	Single	Information according to the invoice reference 	-	-	-	-	20v2
Foreign currency	FOREIGN_CURRENCY	Optional	Single	Provides a foreign currency. When using this element the header element currency (CURRENCY) should be filled out to have a referenced standard-currency.  New element	-	dtCURRENCY	-	-	21fd
Amount of the currency referred to FOREIGN_CURRENCY.	FOREIGN_AMOUNT	Optional	Single	 New element	-	dtNUMBER	-	-	21
Exchange rate	EXCHANGE_RATE	Optional	Single	Exchange rate related to the foreign currency (FOREIGN_CURRENCY).  New element	-	dtNUMBER	-	-	21fd
Net value	NET_VALUE_GOODS	Mandatory	Single	Total amount of all items in this invoice excluding taxes  New element Description adapted to a more comprehensible one	-	dtNUMBER	-	-	21
Net value special items	NET_VALUE_EXTRA	Optional	Single	Net value of extra or special items (e.g. postage or handling charges)  New element	-	dtNUMBER	-	-	20v1
Fixed allowance or surcharges	ALLOW_OR_CHARGES_FIX	Optional	Single	A list of fixed allowances or surcharges which are to be applied on the price. 	-	-	-	-	21fd
Total taxes	TOTAL_TAX	Mandatory	Single	List of the tax amount 	-	-	-	-	20v1

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Total amount	TOTAL_AMOUNT	Mandatory	Single	<p>Total amount covering all items in this business document.</p> <p> Changed definition:</p> <p>Gross price including surcharges, deductions and all taxes. Where no price per item can be given as the item level (e.g. bills of materials where explosion is not possible), the total price can be entered here.</p> <p></p> <p> Changed definition</p>	-	dtNUMBER	-	-	20
Rewards	REWARDS	Optional	Multiple	<p>This element provides the possibility to publish the rewards points which appeared with transactions. The element can be used directly for transactions in IL_INVOICE_LIST_ITEM and as summary in the element INVOICELIST_ITEM.</p> <p></p>	-	-	-	-	21

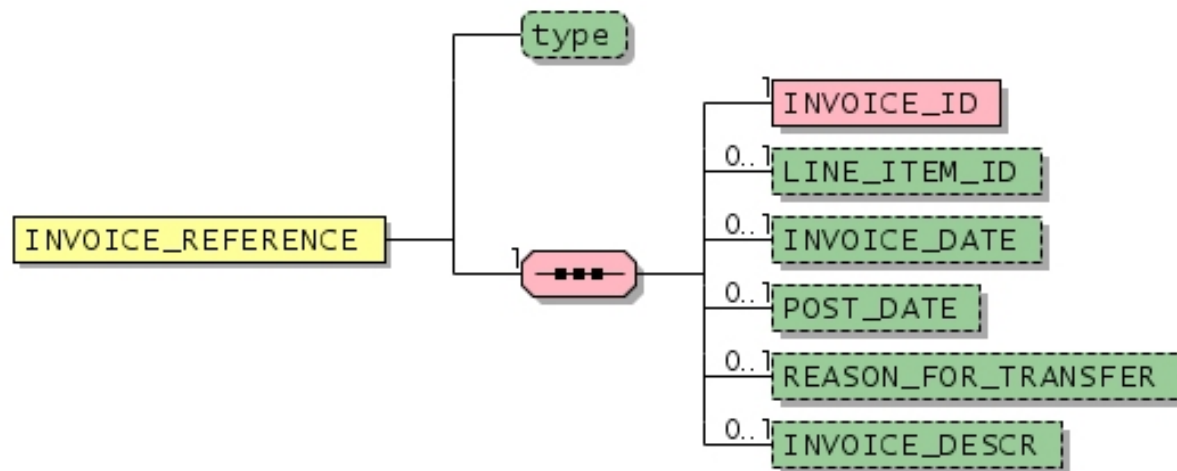
INVOICE_REFERENCE

(Invoice reference)

The element contains a reference to an invoice of invoice line item. If a (complete) invoice is referenced the sub-element **LINE_ITEM_ID** should not be specified.



New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
IL_INVOICE_LIST_ITEM	-	-	-	-	20v2





Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Invoice type	type	Optional	Specifies the type of the referenced business document (invoice or invoice list). New attribute See also: Permitted values for attribute "type"	invoice	dtSTRING	20	-	20v3

Permitted values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Invoice	invoice	A business document of the type (INVOICE) is referenced	20v3
Invoice list	invoicelist	A business document of the type (INVOICELIST) is referenced	20v3
	credit_memo		-

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Invoice number	INVOICE_ID	Mandatory	Single	Unique invoice number of the supplier	-	dtSTRING	250	-	2.0
Item number	LINE_ITEM_ID	Optional	Single	The item ID number is used to uniquely identify the item line of an order within that order. In combination with the order number and the buyer the item number represents a unique ID number outside the business process concerned.Example.: P100012	-	dtSTRING	50	-	2.0
Invoice date	INVOICE_DATE	Optional	Single	Dates of the invoice. In case of a credit card statement, INVOICE_DATE is the charge-date (the date, when the transaction occurred).  Description extended. This is related to invoices within invoicelists.	-	dtDATETIME	-	-	21
Post date	POST_DATE	Optional	Single	The post date specifies the date, that the transaction was debited or credited to your account.  New element Example This example realizes the BMEcat-datatype dtDATETIME (including time-zone). <div><POST_DATE>2009-05-11T10:00:00+01:00</POST_DATE></div>	-	dtDATETIME	-	-	21
Intended purpose	REASON_FOR_TRANSACTION	Optional	Single	Intended purpose especially regarding financial transactions and particularly bank transfers  New element	-	dtSTRING	140	-	20v2
Description of the invoice	INVOICE_DESCR	Optional	Single	Textual description of the invoice  New element	-	dtML-STRING	300	Yes	20v1

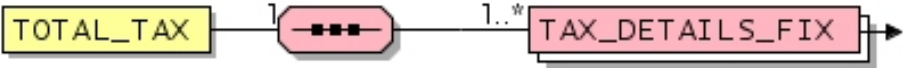
TOTAL_TAX

(Total taxes)

List of all applied taxes (summed up per tax)



New element



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
IL_INVOICE_LIST_ITEM, INVOICELIST_ITEM, INVOICELIST_SUMMARY	-	-	-	-	20v1

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Tax details	TAX_DETAILS_FIX	Mandatory	Multiple	Information to an applied tax 	-	-	-	-	20v1

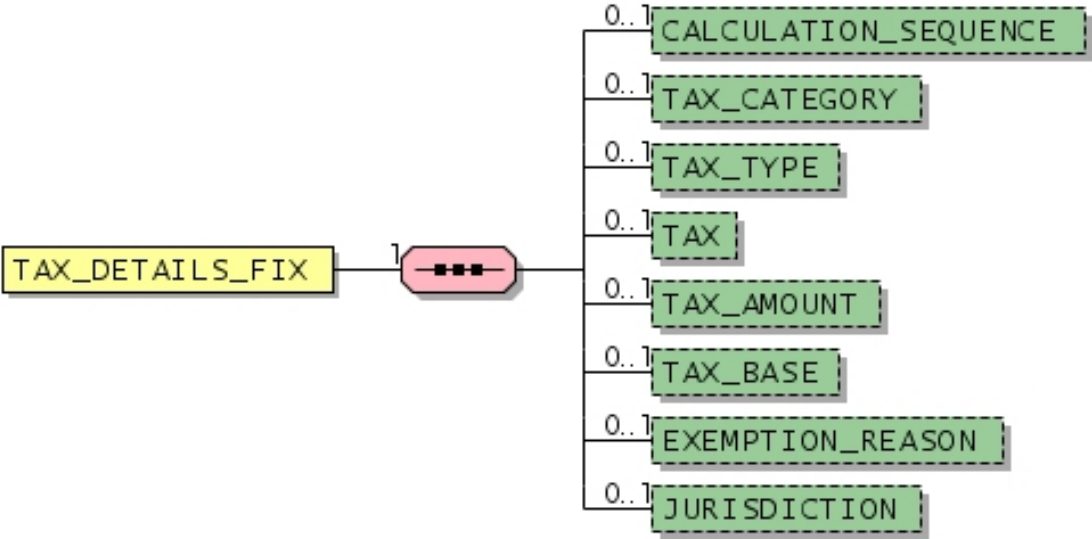
TAX_DETAILS_FIX

(Tax details)

This element contains information of one applicable tax.








New element




General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
TOTAL_TAX	-	-	-	-	20v1

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Calculation sequence	CALCULATION_SEQUENCE	Optional	Single	This element determines the sequence for applying multiple taxes to a basis. The taxes must be applied beginning with the lowest value in CALCULATION_SEQUENCE . Therefore, the tax with the lowest sequence will be calculated first, then follows the tax with the next higher sequence, and so on. If two taxes have the same sequence, both tax factors must be added prior to calculation. <i>namespace: BMECAT</i>  New element	1	dtCOUNT	-	-	2005
Tax category	TAX_CATEGORY	Optional	Single	This element specifies the tax category as a code. By this it is possible to define the tax not as an absolute value, but as the currently valid percentage (TAX). The specification should take place, if possible, by using a common code. The list of predefined values contains codes that should be used within the European Union (see also http://europa.eu.int/comm/taxation_customs/taxation/vat/how_vat_works/rates/index_en.htm). <i>namespace: BMECAT</i>  New element See also: Predefined values for element TAX_CATEGORY	-	dtSTRING	80	-	2005
Tax type	TAX_TYPE	Optional	Single	This element specifies the tax type; it should take place by using internationally accepted terms, such as VAT for value added tax. <i>namespace: BMECAT</i>  New element	vat	dtSTRING	250	-	2005
Tax rate	TAX	Optional	Single	Factor for tax applicable to this price. Example: "0.16", corresponds to 16 percent. <i>namespace: BMECAT</i>	-	dtNUMBER	-	-	-
Tax amount	TAX_AMOUNT	Optional	Single	Total amount of the tax to be paid. Is the result of multiplying the price and the tax rate (TAX) and is listed explicitly for tax reasons. This amount is related to one item-position.	-	dtNUMBER	-	-	-
Tax base	TAX_BASE	Optional	Single	If used this element specifies the base for the calculation of the tax.  New element	-	dtNUMBER	-	-	20fd
Exemption reason	EXEMPTION_REASON	Optional	Single	This element gives the reason why the tax is an exemption from the norm. <i>namespace: BMECAT</i>  New element	-	dtML-STRING	250	Yes	2005

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Jurisdiction	JURISDICTION	Optional	Single	Tax jurisdiction <i>namespace: BMECAT</i>  New element	-	dtML- STRING	250	Yes	2005

Predefined values for element TAX_CATEGORY

Designation	Element value	Explanation	I.chg. in ver.
Exemption	exemption	The item is free of tax.	2005
Parking rate	parking_rate	The tax is a parking rate.	2005
Reduced rate	reduced_rate	The tax is a reduced rate.	2005
Standard rate	standard_rate	The tax is the standard rate.	2005
Super reduced rate	super_reduced_rate	The tax is a super reduced rate.	2005
Zero rate	zero_rate	The tax is the zero rate.	2005
Other, user-defined category	User defined value, format: [w\-\.]{1,80}	The specification of the tax category should take place by commonly used codes. The code should have at least 1 character and 80 characters at the maximum.	2005

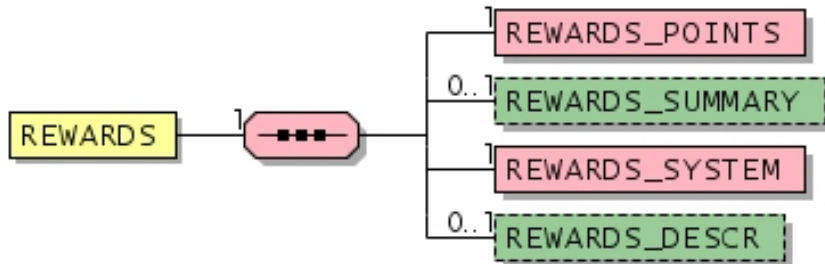
REWARDS

(Rewards)

This element provides the possibility to publish the rewards points which appeared with transactions. The element can be used directly for transactions in **IL_INVOICE_LIST_ITEM** and as summary in the element **INVOICELIST_ITEM**.



New element




General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
IL_INVOICE_LIST_ITEM, INVOICELIST_ITEM	-	-	-	-	21

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Rewards points	REWARDS_POINTS	Mandatory	Single	The rewards points earned with (some of) the transactions of the document. New element	-	dtNUMBER	-	-	21
Rewards summary	REWARDS_SUMMARY	Optional	Single	This is the record of the rewards points you have earned/redeemed till date. New element	-	dtNUMBER	-	-	21
Name of the rewards system	REWARDS_SYSTEM	Mandatory	Single	Name of the rewards system, e.g. frequent flyer program New element	-	dtML-STRING	80	Yes	21

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Rewards description	REWARDS_DESCR	Optional	Single	Description of the rewards system.  New element	-	dtML- STRING	250	Yes	21

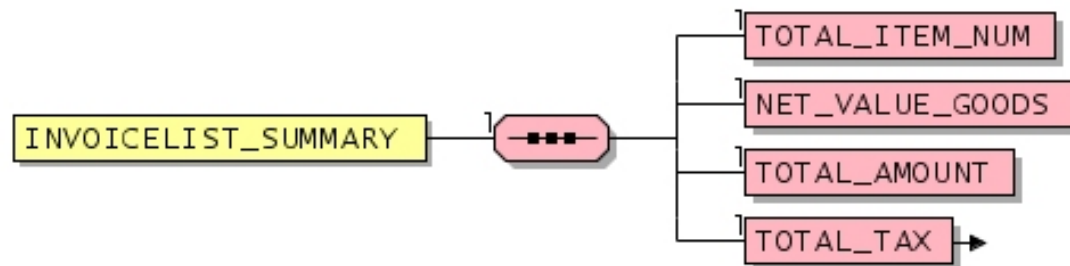
INVOICELIST_SUMMARY

(Summary)

The summary contains information about the number of invoices and the total amount and taxes of all invoices in the invoice list.



New element







General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
INVOICELIST	-	-	-	-	20v2

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Number of item lines	TOTAL_ITEM_NUM	Mandatory	Single	Contains the total number of item lines in the business document. The information is redundant and is for the purposes of statistical evaluation (e.g. by an intermediary) if appropriate.	-	dtCOUNT	-	-	2.0
Net value	NET_VALUE_GOODS	Mandatory	Single	Total amount of all items in this invoice excluding taxes New element Description adapted to a more comprehensible one	-	dtNUMBER	-	-	21

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Total amount	TOTAL_AMOUNT	Mandatory	Single	<p>Total amount covering all items in this business document.</p> <p> Changed definition:</p> <p>Gross price including surcharges, deductions and all taxes. Where no price per item can be given as the item level (e.g. bills of materials where explosion is not possible), the total price can be entered here.</p> <p></p> <p> Changed definition</p>	-	dtNUMBER	-	-	20
Total taxes	TOTAL_TAX	Mandatory	Single	<p>List of the tax amount</p> <p></p>	-	-	-	-	20v1

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Annex

Basic data types


Designation	Data type name	Explanation	Underlying standards	Format	l.chg. in ver.
Boolean value	dtBOOLEAN	The values "true" or "false" can be entered, case-insensitive, i.e. regardless of capital or small letters. Examples: TRUE or true or True	Leaned on: XML Schema Part 2: Data types Second Edition W3C Recommendation 28 October 2004 Data type boolean http://www.w3.org/TR/xmlschema-2/#boolean		-
Integral positive number	dtCOUNT	Integral positive number. No fractions. No negative numbers. "0" is permitted. No separator for thousand is permitted  New data type Examples: 0; 1; 2; ...	XML Schema Part 2: Data types Second Edition W3C Recommendation 28 October 2004 Data type nonNegativeInteger http://www.w3.org/TR/xmlschema-2/#nonNegativeInteger		2005fd
Date and time	dtDATETIME	Date and optional time specification  This new data type replaces the following types: dtDATETIME , dtTIMETYPE and dtTIME-ZONETYPE Examples: 2005-03-27T08:10:30+01:00 (corresponds to: March 27, 2005 08:10:30 CET); 2005-03; 2005-03-27; 2005-03-27T08:10	XML Schema Part 2: Data types Second Edition W3C Recommendation 28 October 2004 Data type dateTime http://www.w3.org/TR/xmlschema-2/#dateTime see also: ISO 8601: Representations of dates and times	yyyy- mm- ddThh:mm:ss +tt:00	2005fd
Floating-point number	dtFLOAT	Floating-point number in accordance with IEEE 754 The decimal separator is the dot. No separator for thousand is permitted. Examples: .314159265358979E+1 15.4	IEEE 754-1985: IEEE Standard for Binary Floating-Point Arithmetic siehe dazu auch: XML Schema Part 2: Data types Second Edition W3C Recommendation 28 October 2004 Data type float http://www.w3.org/TR/xmlschema-2/#float		-
Integer value	dtINTEGER	Whole number with an optional sign. No fractions. No floating-point numbers. No separator for thousand is permitted. Examples: 1; 58502; -13	XML Schema Part 2: Data types Second Edition W3C Recommendation 28 October 2004 Data type integer http://www.w3.org/TR/xmlschema-2/#integer		-

Designation	Data type name	Explanation	Underlying standards	Format	l.chg. in ver.
Multilingual string	dtMLSTRING	<p>This data type differs from the dtSTRING data type only in the additional "lang" attribute, which is added to the respective element. The "lang" attribute specifies the language of text used in the element. It has to be coded according to the dtLANG data type. This new data type allows multilingual catalogs, thus multilingual content (i.e. texts) can be transferred in a single BMEcat document (see also: Chapter: Multilingual Catalog Documents). In a multilingual document, all language-dependent elements of cardinality "single" may occur multiple, though the values of the "lang" attribute must be different.</p> <p>Examples: The short description in the DESCRIPTION_SHORT element is provided both in German and English . Note that the "lang" attribute in the second PRODUCT_DETAILS element is not necessary, if the default language of the catalog (CATALOG) has been set to German.</p> <pre><DESCRIPTION_SHORT lang="deu">Schraubendreher</DESCRIPTION_SHORT> <DESCRIPTION_SHORT lang="eng">Screw driver</DESCRIPTION_SHORT> ... <DESCRIPTION_SHORT>Bohrer</DESCRIPTION_SHORT> <DESCRIPTION_SHORT lang="eng">Drill</DESCRIPTION_SHORT></pre>			-
Number	dtNUMBER	<p>Numeric value. Used whenever a more specific numeric format is either not required or impractical. There are no restrictions regarding minimum or maximum values, the number of digits or the number of decimal places. The decimal separator is the dot. No separator for thousand is permitted.</p> <p>Right: 15 3.14 -123.456E+10</p> <p>Wrong: 13,20 1.000.000</p>			-
Character string	dtSTRING	<p>Character string according to the encoding standard (see also Chapter: Coding in XML)</p> <p>Example: Screw driver, yellow</p>			-

Enumeration data types

Designation	Data type name	Explanation	Underlying standards	Format	l.chg. in ver.
binary coded data	base64Binary	<p>This data type is used to transport a encoded file in openTRANS-XML-files. The file is not referred by links but included in the XML-document. The file must be encoded according to the 'base64'-method. Further information can be found on http://www.ietf.org/rfc/rfc2045.txt. This data type is provided by the w3c and you can find further information on the embedding of files in XML-files at http://www.w3.org/TR/xml-media-types/.</p> <p> New data type</p>	<p>Describing Media Content of Binary Data in XML - W3C Working Group Note 4 May 2005 http://www.w3.org/TR/xml-media-types/</p>		20v3
Country codes	dtCOUNTRIES	<p>Country codes to indicate areas of availability (TERRITORY).</p> <p>The country subdivision codes can be used to subdivide country codes further, for example into regions.</p> <p>Examples: DE (Germany); US (USA) DE-NW (North-Rhine Westphalia in Germany) DK-025 (Roskilde Administrative District in Denmark)</p>	<p>ISO 3166-1 Country codes http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm</p>	6 characters	-
Currency codes	dtCURRENCIES	<p>Currency codes to indicate currencies</p> <p>Examples: EUR (Euro); USD (US Dollar)</p>	<p>ISO 4217:1995 Currency codes [ISO-4217:1995] http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/currency_codes/currency_codes_list-1.htm</p> <p> Since 1997 the code "EUR" instead of "XEU" has been in place for Euro. This is proscribed as the official code ISO 4217:2000. It is therefore urgently recommended that "EUR" be used as code for Euro.</p>	3 characters	-
Language codes	dtLANG	<p>Language codes to indicate the language used in texts or pictures</p> <p>Example: deu (German)</p>	<p>ISO 639-2:1998 Language code [ISO-639-2:1998] http://www.loc.gov/standards/iso639-2/php/code_list.php</p>	3 characters	-

Special data types

Designation	Data type name	Explanation	Underlying standards	Format	l.chg. in ver.
Header extension	udxHEADER	This data type is defined as empty; it serves for user-defined, thus non-open-TRANS-elements for extending the catalog header.			-
Item extension	udxITEM	This data type is defined as empty and serves for user-defined, thus non-open-TRANS-elements for describing on item level.			-
Extensions signature verification report	udxREPORT	<p>This data type is defined as empty and serves for user-defined, thus non-open-TRANS-elements for describing extensions for signature verification reports.</p> <p> New datatype</p>			20fd

History of changes Version 2005fd

Change	Description of changes
ACADEMIC_TITLE	New element
ACCOUNTING_INFO	New element
ADDRESS	This element has been extended by the following sub-elements: DEPARTMENT , CONTACT_DETAILS , VAT_ID ; the sub-element EMAIL may occur more than once if the e-mail address comes with an element PUBLIC_KEY .
AUTHENTICATION	New element
BUYER_IDREF	This new element replaces together with the PARTY element the BUYER element.
CONTACT_DESCR	New element
CONTACT_DETAILS	New element
CONTACT_ID	New element
CONTACT_NAME	New element
CONTACT_ROLE	New element
COST_ACCOUNT	New element
COST_CATEGORY_ID	New element
COST_TYPE	New element
COUNTRY_CODED	New element
DEPARTMENT	New element
EMAIL	The maximum length has been extended from 100 characters to 250 characters.
EMAILS	New element
FAX -->type	New attribute
LANGUAGE -->default	New attribute
LOGIN	New element
MIME_ALT	The maximum length has been extended from 50 characters to 80 characters.
MIME_DATA -->contentType =application/xml	New value
MIME_PURPOSE	The list of allowed values has been extended by 'icon' and 'safety_data_sheet'.
MIME_PURPOSE =icon	New value

Change	Description of changes
MIME_PURPOSE =safety_data_sheet	New value
MIME_TYPE =application/xml	New value
PARTIES	New element
PARTY	New element
PARTY_ID	New element
PARTY_ROLE	New element
PARTY_ROLE =document_creator	New value
PARTY_ROLE =ipp_operator	New value
PARTY_ROLE =manufacturer	New value
PARTY_ROLE =standardization_body	New value
PARTY_ROLE =supplier	New value
PASSWORD	New element
PHONE	The maximum length has been extended from 30 characters to 50 characters.
PHONE -->type	New attribute
REMARKS -->type	New attribute
SUPPLIER_IDREF	This new element together with the PARTY replaces the SUPPLIER element.
TITLE	New element
URL	The maximum length has been extended from 100 characters to 250 characters.
VAT_ID	New element
dtCOUNT	New data type
dtDATETIME	This new data type replaces the following types: dtDATETIME , dtTIMETYPE and dtTIMEZONETYPE

History of changes Version 2005

Change	Description of changes
ADDRESS	The sub-elements PHONE und FAX may occure more than once, due to their type-attribute.
CALCULATION_SEQUENCE	New element
CONTACT_DETAILS	The sub-elements PHONE und FAX may occure more than once, due to their type-attribute.
CONTACT_ID	The maximum length has been extended from 50 characters to 60 characters.
EXEMPTION_REASON	New element
JURISDICTION	New element
TAX_CATEGORY	New element
TAX_TYPE	New element

History of changes Version 20v1

Change	Description of changes
ALLOW_OR_CHARGE	New element
ALLOW_OR_CHARGES_FIX	New element
ALLOW_OR_CHARGES_TOTAL_AMOUNT	New element
ALLOW_OR_CHARGE_DESCR	New element
ALLOW_OR_CHARGE_NAME	New element
ALLOW_OR_CHARGE_TYPE	New element
ALLOW_OR_CHARGE_VALUE	New element
AOC_ADDITIONAL_ITEMS	New element
AOC_MONETARY_AMOUNT	New element
AOC_ORDER_UNITS_COUNT	New element
AOC_PERCENTAGE_FACTOR	New element
HEADER_UDX	New element
INVOICE_DESCR	New element
ITEM_UDX	New element
NET_VALUE_EXTRA	New element
NET_VALUE_GOODS	New element
TAX_DETAILS_FIX	New element
TOTAL_TAX	New element

History of changes Version 20v2

Change	Description of changes
ACCOUNTING_PERIOD	New element
ACCOUNTING_PERIOD_END_DATE	New element
ACCOUNTING_PERIOD_START_DATE	New element
ALLOW_OR_CHARGE_BASE	New element
ALLOW_OR_CHARGE_TYPE =abroad	New value
ALLOW_OR_CHARGE_TYPE =administration	New value
ALLOW_OR_CHARGE_TYPE =bulk_goods	New value
ALLOW_OR_CHARGE_TYPE =cash_discount	New value
ALLOW_OR_CHARGE_TYPE =charge	New value
ALLOW_OR_CHARGE_TYPE =cod	New value
ALLOW_OR_CHARGE_TYPE =customs	New value
ALLOW_OR_CHARGE_TYPE =deposit	New value
ALLOW_OR_CHARGE_TYPE =express	New value
ALLOW_OR_CHARGE_TYPE =freight	New value
ALLOW_OR_CHARGE_TYPE =handling	New value
ALLOW_OR_CHARGE_TYPE =insurance	New value
ALLOW_OR_CHARGE_TYPE =island	New value

Change	Description of changes
ALLOW_OR_CHARGE_TYPE =material	New value
ALLOW_OR_CHARGE_TYPE =overpacking	New value
ALLOW_OR_CHARGE_TYPE =packing	New value
ALLOW_OR_CHARGE_TYPE =partial_quantity	New value
ALLOW_OR_CHARGE_TYPE =period_bonus	New value
ALLOW_OR_CHARGE_TYPE =postage	New value
ALLOW_OR_CHARGE_TYPE =project_bonus	New value
ALLOW_OR_CHARGE_TYPE =rebate	New value
ALLOW_OR_CHARGE_TYPE =recycling	New value
ALLOW_OR_CHARGE_TYPE =small_order	New value
ALLOW_OR_CHARGE_TYPE =special_work_times	New value
ALLOW_OR_CHARGE_TYPE =toll	New value
BANK_ACCOUNT	New attribut 'type' inserted.
BANK_ACCOUNT -->type	New attribute
BANK_CODE	Added new attribute 'type'.
BANK_CODE -->type	New attribute
DELIVERY_IDREF	New element
FILE_NAME	New element
FILE_SIZE	New element
INVOICELIST	New element
INVOICELIST -->version =2.0	New value

Change	Description of changes
INVOICELIST_DATE	New element
INVOICELIST_HEADER	New element
INVOICELIST_ID	New element
INVOICELIST_INFO	New element
INVOICELIST_ITEM	New element
INVOICELIST_ITEM_LIST	New element
INVOICELIST_SUMMARY	New element
INVOICE_ISSUER_IDREF	New element
INVOICE_RECIPIENT_IDREF	New element
INVOICE_REFERENCE	New element
MIME_DATA	New element
MIME_DATA -->contentType	New attribute
MIME_EMBEDDED	New element
MIME_EMBEDDED -->lang	New attribute
MIME_PURPOSE	The list of allowed values has been extended by 'manual' (manual of a product), 'directions' (directions sketch), 'conformity' (declaration of conformity), 'fax_image' (copy of a fax), 'freehand_sketch' (freehand sketch), 'mounting_guidelines' (assembly guide or installation guide etc.), 'repair_manual' (repair instructions), 'service_descr' (service description), 'service_record' (activity confirmation, record of achievement etc.) and 'warranty' (warranty).
MIME_PURPOSE =conformity	New value
MIME_PURPOSE =directions	New value
MIME_PURPOSE =fax_image	New value
MIME_PURPOSE =freehand_sketch	New value
MIME_PURPOSE =manual	New value
MIME_PURPOSE =mounting_guidelines	New value
MIME_PURPOSE =repair_manual	New value
MIME_PURPOSE =service_descr	New value
MIME_PURPOSE =service_record	New value
MIME_PURPOSE =warranty	New value

Change	Description of changes
PARTY_ROLE	The list of pre-defined values has been extended with 'invoice_issuer' (invoicing party), 'invoice_recipient' (invoice receiving party) and 'deliverer' (transportation party, carrier).
PARTY_ROLE =deliverer	New value
PARTY_ROLE =invoice_issuer	New value
PARTY_ROLE =invoice_recipient	New value
PAYER_IDREF	New element
PAYMENT_DATE	New element
REASON_FOR_TRANSFER	New element
REMITTEE_IDREF	New element
TAX_NUMBER	New element

History of changes Version 20v3

Change	Description of changes
ALLOW_OR_CHARGE -->type	New attribute
ALLOW_OR_CHARGE_TYPE =customization	New value
CENTRAL_REGULATION	New element
CONTACT_DETAILS	AUTHENTICATION was added as sub-element.
CONTACT_ROLE -->type	The list of pre defined values was extended. New items are 'document_issuer' (intermediator), 'marketplace', 'payer', 'remittee' and 'central_regulator' (regulator for centralized settlement).
DOCEXCHANGE_PARTIES_REFERENCE	New element
DOCUMENT_ISSUER_IDREF	New element
DOCUMENT_RECIPIENT_IDREF	New element
IL_INVOICE_LIST	New element
IL_INVOICE_LIST_ITEM	New element
INVOICELIST_TYPE	New element
INVOICE_REFERENCE -->type	New attribute
MIME	The element MIME_EMBEDDED was added.
MIME_PURPOSE	The list of allowed values has been extended by 'verification_report' (Report of verification process).
MIME_PURPOSE =verification_report	New value
PARTY	Sub-element ACCOUNT has been added.
PARTY_ROLE	The list of pre-defined values has been extended with 'intermediary' (intermediate party), 'marketplace' (market place), 'payer', 'remittee' and 'central_regulator' (in case of centralized settlement).
PARTY_ROLE =central_regulator	New value
PARTY_ROLE =customer	New value
PARTY_ROLE =delivery	New value
PARTY_ROLE =final_delivery	New value
PARTY_ROLE =intermediary	New value
PARTY_ROLE =marketplace	New value


Change	Description of changes
PARTY_ROLE =payer	New value
PARTY_ROLE =remittee	New value
base64Binary	New data type

History of changes Version 20fd

Change	Description of changes
ACCOUNT	The sub-element PAYMENT_TERM was deferred to the element PAYMENT_TERMS .
BANK_ACCOUNT	New attribut 'standard' inserted.
CASH	The Sub-element PAYMENT_TERM was moved to the element PAYMENT_TERMS .
CHECK	The sub-element PAYMENT_TERM was moved to the element PAYMENT_TERMS .
DAYS	New element
DEBIT	The sub-element PAYMENT_TERM was moved to PAYMENT_TERMS .
DISCOUNT_FACTOR	New element
E BILLING	New element
FILE_HASH_VALUE	New element
FILE_HASH_VALUE -->lang	New attribute
FILE_HASH_VALUE -->type	New attribute
INVOICE_ORIGINAL	New element
MIME_PURPOSE	The list of allowed values has been extended by 'signatur_file' (file with an external signature) and 'original_document' (the original document).
MIME_PURPOSE =original_document	New value
MIME_PURPOSE =signatur_file	New value
PAYMENT_TERMS	New element
REPORT_UDX	New element
RESULT_CODE	New element
RESULT_DESCR	New element
SIGNATURE	New element
SIGNATURE_AND_VERIFICATION	New element
SIGNATURE_IN_ORIGINAL	New element
TAX_BASE	New element
TIME_FOR_PAYMENT	New element
VALUE_DATE	New element

Change	Description of changes
VERIFICATION	New element
VERIFICATION_ATTACHMENT	New element
VERIFICATION_PARTY_IDREF	New element
VERIFICATION_PROTOCOL	New element
VERIFICATION_REPORT	New element
VERIFICATION_SUCCESS	New element
VERIFICATION_XMLREPORT	New element
XML_FORMAT	New element
XML_SIGNATURE	New element
udxREPORT	New datatype

History of changes Version 20

Change	Description of changes
ADDRESS	The sub-element CONTACT_DETAILS was accidentally deleted in the draft version and is now inserted again.
INVOICELIST_INFO	For improvements related to the document processing the sorting was changed.
PARTY	Sub-element PARTY_ID set to "mandatory". Sub-element ADDRESS has been set to "multiple"
PARTY_ROLE	The list of pre-defined values has been extended with 'other'.
PARTY_ROLE =other	New value
TOTAL_AMOUNT	 Changed definition

History of changes Version 21fd

Change	Description of changes
ACCOUNT	Example added.
ADDRESS	Example adapted.
ALLOW_OR_CHARGES_FIX	Example added.
CARD	Subelements CARD_TYPE and CARD_OTHER replaced by the type-attribute of CARD. A list of available values was added. Example added.
CARD -->type	New attribute
CONTACT_DETAILS	Changed sub-element CONTACT_ID to optional. Example added.
EXCHANGE_RATE	New element
E_BILLING	Changes for the integration of XML-Signatures (see also Signature).
FILE_HASH_VALUE	A list of available values was added. Example added.
FOREIGN_CURRENCY	New element
MIME	Examples adapted.
MIME_TYPE	The element is now mandatory. The recipient can now better process the incoming data since the format is always known.
PARTY	Example added.
PARTY_ROLE	The list of pre-defined values has been extended with 'TrustedThirdParty'.
PARTY_ROLE =trustedthirdparty	New value
SIGNATURE_AND_VERIFICATION	Example added.
Signature	New element
XML_SIGNATURE	The element Signature of type SignatureType now refers to the element of the W3C to keep w3c-conformity. Therefore it has the namespace xsig.

History of changes Version 21

Change	Description of changes
ALLOW_OR_CHARGE	Description more detailed.
AMOUNT_OVER_CREDIT_LIMIT	New element
CLOSING_BALANCE	New element
CREDIT_AVAILABLE	New element
CREDIT_LIMIT	New element
DIRECT_DEBIT	New element
FOREIGN_AMOUNT	New element
INVOICE_DATE	Description extended. This is related to invoices within invoicelists.
NET_VALUE_GOODS	Description adapted to a more comprehensible one
OPENING_BALANCE	New element
PAYMENT_TERMS	Example added.
POST_DATE	New element
REWARDS	New element
REWARDS_DESCR	New element
REWARDS_POINTS	New element
REWARDS_SUMMARY	New element
REWARDS_SYSTEM	New element
TIME_FOR_PAYMENT	Example changed and additional example added.
VALUE_DATE	The description of VALUE_DATE has been extended and an example has been added.

Overview of elements - order by appearance

Amount	Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
1	INVOICELIST	-	-	-	-	20v2
1	SEQUENCE	-	-	-	-	-
1	INVOICELIST_HEADER	-	-	-	-	20v2
1	SEQUENCE	-	-	-	-	-
0..1	CONTROL_INFO	-	-	-	-	-
1	SEQUENCE	-	-	-	-	-
0..1	STOP_AUTOMATIC_PROCESSING	-	dtSTRING	250	-	2.0_fd
0..1	GENERATOR_INFO	-	dtSTRING	250	-	-
0..1	GENERATION_DATE	-	dtDATETIME	-	-	2005fd
1	INVOICELIST_INFO	-	-	-	-	20
1	SEQUENCE	-	-	-	-	-
1	INVOICELIST_ID	-	dtSTRING	250	-	20v2
1	INVOICELIST_DATE	-	dtDATETIME	-	-	2005fd
0..1	REASON_FOR_TRANSFER	-	dtSTRING	140	-	20v2
0..1	INVOICELIST_TYPE	collective_invoice	dtSTRING	25	-	20v3
1	ACCOUNTING_PERIOD	-	-	-	-	20v2
1	SEQUENCE	-	-	-	-	-
1	ACCOUNTING_PERIOD_START_DATE	-	dtDATETIME	-	-	2005fd
1	ACCOUNTING_PERIOD_END_DATE	-	dtDATETIME	-	-	2005fd
0..*	LANGUAGE	-	dtLANG	-	-	-
0..1	MIME_ROOT	-	dtMLSTRING	250	Yes	-
1	PARTIES	-	-	-	-	2005fd
1	SEQUENCE	-	-	-	-	-
1..*	PARTY	-	-	-	-	21fd
1	SEQUENCE	-	-	-	-	-
1..*	PARTY_ID	-	dtSTRING	250	-	2005fd
0..*	PARTY_ROLE	-	dtSTRING	20	-	21fd
0..*	ADDRESS	-	-	-	-	21fd
1	SEQUENCE	-	-	-	-	-
0..1	NAME	-	dtMLSTRING	50	Yes	-
0..1	NAME2	-	dtMLSTRING	50	Yes	-
0..1	NAME3	-	dtMLSTRING	50	Yes	-
0..1	DEPARTMENT	-	dtMLSTRING	50	Yes	2005fd
0..*	CONTACT_DETAILS	-	-	-	-	21fd
1	SEQUENCE	-	-	-	-	-
0..1	CONTACT_ID	-	dtSTRING	60	-	2005
1..1	CONTACT_NAME	-	dtMLSTRING	50	Yes	2005fd
0..1	FIRST_NAME	-	dtMLSTRING	50	Yes	-
0..1	TITLE	-	dtMLSTRING	20	Yes	2005fd
0..1	ACADEMIC_TITLE	-	dtMLSTRING	50	Yes	2005fd
0..*	CONTACT_ROLE	-	dtMLSTRING	50	Yes	2005fd
0..1	CONTACT_DESCR	-	dtMLSTRING	250	Yes	2005fd
0..*	PHONE	-	dtMLSTRING	50	Yes	2005fd

Amount	Element name							Default value	Data type	Field length	Lang. specific	I.chg. in ver.
0..*							_ FAX	-	dtMLSTRING	50	Yes	-
0..1							_ URL	-	dtSTRING	255	-	2005fd
0..1							_ EMAILS	-	-	-	-	2005fd
1..*							SEQUENCE	-	-	-	-	-
1							_ EMAIL	-	dtSTRING	255	-	2005fd
0..*							_ PUBLIC_KEY	-	dtSTRING	64000	-	1.2_fd
0..1							AUTHENTICATION	-	-	-	-	2005fd
1							SEQUENCE	-	-	-	-	-
1							_ LOGIN	-	dtSTRING	60	-	2005fd
0..1							PASSWD	-	dtSTRING	20	-	2005fd
0..1							STREET	-	dtMLSTRING	50	Yes	-
0..1							ZIP	-	dtMLSTRING	20	Yes	-
0..1							BOXNO	-	dtMLSTRING	20	Yes	-
0..1							ZIPBOX	-	dtMLSTRING	20	Yes	-
0..1							CITY	-	dtMLSTRING	50	Yes	-
0..1							STATE	-	dtMLSTRING	50	Yes	-
0..1							COUNTRY	-	dtMLSTRING	50	Yes	-
0..1							COUNTRY_CODED	-	dtCOUNTRIES	-	-	2005fd
0..1							VAT_ID	-	dtSTRING	50	-	2005fd
0..1							TAX_NUMBER	-	dtSTRING	50	-	20v2
0..*							PHONE	-	dtMLSTRING	50	Yes	2005fd
0..*							FAX	-	dtMLSTRING	50	Yes	-
0..*							SEQUENCE	-	-	-	-	-
1							_ EMAIL	-	dtSTRING	255	-	2005fd
0..*							_ PUBLIC_KEY	-	dtSTRING	64000	-	1.2_fd
0..1							URL	-	dtSTRING	255	-	2005fd
0..1							ADDRESS_REMARKS	-	dtMLSTRING	250	Yes	-
0..*							ACCOUNT	-	-	-	-	21fd
1							SEQUENCE	-	-	-	-	-
1							HOLDER	-	dtSTRING	50	-	2.0
1							BANK_ACCOUNT	-	dtSTRING	100	-	20fd
0..1							BANK_CODE	-	dtSTRING	50	-	20v2
0..1							BANK_NAME	-	dtSTRING	50	-	2.0
0..1							BANK_COUNTRY	-	dtCOUNTRIES	-	-	2.0
0..1							MIME_INFO	-	-	-	-	-
1							SEQUENCE	-	-	-	-	-
1..*							MIME	-	-	-	-	21fd
1							SEQUENCE	-	-	-	-	-
0..1							MIME_TYPE	-	dtSTRING	30	-	21fd
1							CHOICE	-	-	-	-	-
1							SEQUENCE	-	-	-	-	-
1..1							MIME_SOURCE	-	dtMLSTRING	255	Yes	-
0..*							FILE_HASH_VALUE	-	dtSTRING	100	-	21fd
1..*							MIME_EMBEDDED	-	-	-	-	20v2
1							SEQUENCE	-	-	-	-	-
1							MIME_DATA	-	base64Binary	-	-	20v3
0..1							FILE_NAME	-	dtSTRING	250	-	20v2

Amount	Element name							Default value	Data type	Field length	Lang. specific	I.chg. in ver.
0..1								-	dtCOUNT	-	-	20v2
0..1								-	dtMLSTRING	250	Yes	-
0..1								-	dtMLSTRING	80	Yes	2005fd
0..1								-	dtSTRING	20	-	20v3
0..1								-	dtINTEGER	-	-	-
0..1								-	dtSTRING	250	-	20v2
0..1								-	dtSTRING	250	-	20v2
0..1								-	dtSTRING	250	-	2005fd
0..1								-	dtSTRING	250	-	2005fd
0..1								-	dtSTRING	250	-	20v2
0..1								-	dtSTRING	250	-	20v2
0..1								-	-	-	-	20v3
1								-	-	-	-	-
0..1								-	dtSTRING	250	-	20v3
0..*								-	dtSTRING	250	-	20v3
1								-	dtCURRENCIES	-	-	-
0..1								-	-	-	-	2.0
1								-	-	-	-	-
1								-	-	-	-	-
1								-	-	-	-	21fd
1								-	-	-	-	-
1								-	dtSTRING	16	-	2.0
0..1								-	dtSTRING	10	-	2.0
0..1								-	dtSTRING	50	-	2.0
1								-	dtDATETIME	-	-	2005fd
1								-	dtSTRING	50	-	2.0
1..*								-	-	-	-	21fd
1								-	-	-	-	-
1								-	dtSTRING	50	-	2.0
1								-	dtSTRING	100	-	20fd
0..1								-	dtSTRING	50	-	20v2
0..1								-	dtSTRING	50	-	2.0
0..1								-	dtCOUNTRIES	-	-	2.0
1								-	dtBOOLEAN	-	-	20fd
1								-	dtBOOLEAN	-	-	20fd
1								-	dtBOOLEAN	-	-	20fd
0..1								false	dtBOOLEAN	-	-	20v3
0..1								-	-	-	-	21
0..1								-	-	-	-	-
0..*								-	dtSTRING	250	-	2.0
0..*								-	-	-	-	21
1								-	-	-	-	-
1								-	-	-	-	-
1								-	dtDATETIME	-	-	2005fd
1								-	dtCOUNT	-	-	2005fd
0..1								-	-	-	-	-
0..1								-	dtFLOAT	-	-	20fd

Amount	Element name										Default value	Data type	Field length	Lang. specific	l.chg. in ver.	
0..1											ALLOW_OR_CHARGES_FIX	-	-	-	-	21fd
1											SEQUENCE	-	-	-	-	-
1..*											ALLOW_OR_CHARGE	-	-	-	-	21
1											SEQUENCE	-	-	-	-	-
0..1											ALLOW_OR_CHARGE_SEQUENCE	-	dtCOUNT	-	-	2005fd
0..1											ALLOW_OR_CHARGE_NAME	-	dtMLSTRING	80	Yes	20v1
0..1											ALLOW_OR_CHARGE_TYPE	-	dtSTRING	30	-	20v1
0..1											ALLOW_OR_CHARGE_DESCR	-	dtMLSTRING	250	Yes	20v1
0..1											ALLOW_OR_CHARGE_VALUE	-	-	-	-	20v1
1											CHOICE	-	-	-	-	-
1											AOC_PERCENTAGE_FACTOR	-	dtFLOAT	-	-	20v1
1											AOC_MONETARY_AMOUNT	-	dtFLOAT	-	-	20v1
1											AOC_ORDER_UNITS_COUNT	-	-	-	-	20v1
1											AOC_ADDITIONAL_ITEMS	-	dtSTRING	250	-	20v1
0..1											ALLOW_OR_CHARGE_BASE	-	dtFLOAT	-	-	20v2
0..1											ALLOW_OR_CHARGES_TOTAL_AMOUNT	-	dtFLOAT	-	-	20v1
0..1											VALUE_DATE	-	dtDATETIME	-	-	2005fd
0..1											TERMS_AND_CONDITIONS	-	dtSTRING	250	-	2.0
0..1											ACCOUNTING_INFO	-	-	-	-	2005fd
1											SEQUENCE	-	-	-	-	-
1											COST_CATEGORY_ID	-	dtSTRING	64	-	2005fd
0..1											COST_TYPE	-	dtSTRING	64	-	2005fd
0..1											COST_ACCOUNT	-	dtSTRING	64	-	2005fd
0..1											E_BILLING	-	-	-	-	21fd
1											SEQUENCE	-	-	-	-	-
0..1											INVOICE_ORIGINAL	-	-	-	-	20fd
1											SEQUENCE	-	-	-	-	-
1											MIME	-	-	-	-	21fd
1											SEQUENCE	-	-	-	-	-
0..1											MIME_TYPE	-	dtSTRING	30	-	21fd
1											CHOICE	-	-	-	-	-
1											SEQUENCE	-	-	-	-	-
1..1											MIME_SOURCE	-	dtMLSTRING	255	Yes	-
0..*											FILE_HASH_VALUE	-	dtSTRING	100	-	21fd
1..*											MIME_EMBEDDED	-	-	-	-	20v2
1											SEQUENCE	-	-	-	-	-
1											MIME_DATA	-	base64Binary	-	-	20v3
0..1											FILE_NAME	-	dtSTRING	250	-	20v2
0..1											FILE_SIZE	-	dtCOUNT	-	-	20v2
0..1											MIME_DESCR	-	dtMLSTRING	250	Yes	-
0..1											MIME_ALT	-	dtMLSTRING	80	Yes	2005fd
0..1											MIME_PURPOSE	-	dtSTRING	20	-	20v3
0..1											MIME_ORDER	-	dtINTEGER	-	-	-
0..*											SIGNATURE_AND_VERIFICATION	-	-	-	-	21fd
1											SEQUENCE	-	-	-	-	-
1											SIGNATURE	-	-	-	-	20fd
1											CHOICE	-	-	-	-	-

Amount	Element name										Default value	Data type	Field length	Lang. specific	l.chg. in ver.
1															21fd
1															-
0..1												dtSTRING	30	-	21fd
1														-	-
1														-	-
1..1												dtMLSTRING	255	Yes	-
0..*												dtSTRING	100	-	21fd
1..*														-	20v2
1														-	-
1												base64Binary	-	-	20v3
0..1												dtSTRING	250	-	20v2
0..1												dtCOUNT	-	-	20v2
0..1												dtMLSTRING	250	Yes	-
0..1												dtMLSTRING	80	Yes	2005fd
0..1												dtSTRING	20	-	20v3
0..1												dtINTEGER	-	-	-
1												dtBOOLEAN	-	-	20fd
1														-	21fd
1														-	-
1														-	21fd
0..*														-	20fd
1														-	-
1												dtSTRING	250	-	20fd
1												dtBOOLEAN	-	-	20fd
1														-	20fd
1														-	20fd
1														-	-
1														-	21fd
0..1												dtSTRING	30	-	21fd
1														-	-
1														-	-
1..1												dtMLSTRING	255	Yes	-
0..*												dtSTRING	100	-	21fd
1..*														-	20v2
1														-	-
1												base64Binary	-	-	20v3
0..1												dtSTRING	250	-	20v2
0..1												dtCOUNT	-	-	20v2
0..1												dtMLSTRING	250	Yes	-
0..1												dtMLSTRING	80	Yes	2005fd
0..1												dtSTRING	20	-	20v3
0..1												dtINTEGER	-	-	-
1														-	20fd
1														-	-
1												dtSTRING	20	-	20fd

Amount	Element name	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
0..*	RESULT_DESCR	-	dtMLSTRING	-	-	20fd
1	VERIFICATION_XMLREPORT	-	-	-	-	20fd
1	SEQUENCE	-	-	-	-	-
1	XML_FORMAT	-	dtSTRING	50	-	20fd
1	REPORT_UDX	-	udxREPORT	-	-	20fd
0..1	MIME_INFO	-	-	-	-	-
1	SEQUENCE	-	-	-	-	-
1..*	MIME	-	-	-	-	21fd
1	SEQUENCE	-	-	-	-	-
0..1	MIME_TYPE	-	dtSTRING	30	-	21fd
1	CHOICE	-	-	-	-	-
1	SEQUENCE	-	-	-	-	-
1..1	MIME_SOURCE	-	dtMLSTRING	255	Yes	-
0..*	FILE_HASH_VALUE	-	dtSTRING	100	-	21fd
1..*	MIME_EMBEDDED	-	-	-	-	20v2
1	SEQUENCE	-	-	-	-	-
1	MIME_DATA	-	base64Binary	-	-	20v3
0..1	FILE_NAME	-	dtSTRING	250	-	20v2
0..1	FILE_SIZE	-	dtCOUNT	-	-	20v2
0..1	MIME_DESCR	-	dtMLSTRING	250	Yes	-
0..1	MIME_ALT	-	dtMLSTRING	80	Yes	2005fd
0..1	MIME_PURPOSE	-	dtSTRING	20	-	20v3
0..1	MIME_ORDER	-	dtINTEGER	-	-	-
0..*	REMARKS	-	dtMLSTRING	64000	Yes	-
0..1	HEADER_UDX	-	udxHEADER	-	-	20v1
1	INVOICELIST_ITEM_LIST	-	-	-	-	20v2
1	SEQUENCE	-	-	-	-	-
1..*	INVOICELIST_ITEM	-	-	-	-	20v2
1	SEQUENCE	-	-	-	-	-
1	LINE_ITEM_ID	-	dtSTRING	50	-	2.0
0..1	INVOICE_RECIPIENT_IDREF	-	dtSTRING	250	-	20v2
0..1	DELIVERY_IDREF	-	dtSTRING	250	-	20v2
0..1	INVOICE_ISSUER_IDREF	-	dtSTRING	250	-	20v2
0..1	ACCOUNTING_PERIOD	-	-	-	-	20v2
1	SEQUENCE	-	-	-	-	-
1	ACCOUNTING_PERIOD_START_DATE	-	dtDATETIME	-	-	2005fd
1	ACCOUNTING_PERIOD_END_DATE	-	dtDATETIME	-	-	2005fd
0..1	CREDIT_LIMIT	-	dtNUMBER	-	-	21
0..1	OPENING_BALANCE	-	dtNUMBER	-	-	21
1	IL_INVOICE_LIST	-	-	-	-	20v3
1	SEQUENCE	-	-	-	-	-
1..*	IL_INVOICE_LIST_ITEM	-	-	-	-	20v3
1	SEQUENCE	-	-	-	-	-
1	INVOICE_REFERENCE	-	-	-	-	20v2
1	SEQUENCE	-	-	-	-	-
1	INVOICE_ID	-	dtSTRING	250	-	2.0
0..1	LINE_ITEM_ID	-	dtSTRING	50	-	2.0

Amount	Element name										Default value	Data type	Field length	Lang. specific	l.chg. in ver.
0..1											-	dtDATETIME	-	-	2005fd
0..1											-	dtDATETIME	-	-	2005fd
0..1											-	dtSTRING	140	-	20v2
0..1											-	dtMLSTRING	300	Yes	20v1
1											-	-	-	-	-
0..1											-	dtCURRENCIES	-	-	21fd
0..1											-	dtNUMBER	-	-	21
0..1											-	dtNUMBER	-	-	21fd
1											-	dtNUMBER	-	-	21
0..1											-	dtNUMBER	-	-	20v1
0..1											-	-	-	-	21fd
1											-	-	-	-	-
1..*											-	-	-	-	21
1											-	-	-	-	-
0..1											-	dtCOUNT	-	-	2005fd
0..1											-	dtMLSTRING	80	Yes	20v1
0..1											-	dtSTRING	30	-	20v1
0..1											-	dtMLSTRING	250	Yes	20v1
0..1											-	-	-	-	20v1
1											-	-	-	-	-
1											-	dtFLOAT	-	-	20v1
1											-	dtFLOAT	-	-	20v1
1											-	-	-	-	20v1
1											-	dtSTRING	250	-	20v1
0..1											-	dtFLOAT	-	-	20v2
0..1											-	dtFLOAT	-	-	20v1
1											-	-	-	-	20v1
1											-	-	-	-	-
1..*											-	-	-	-	20v1
1											-	-	-	-	-
0..1											1	dtCOUNT	-	-	2005fd
0..1											-	dtSTRING	80	-	2005
0..1											vat	dtSTRING	250	-	2005
0..1											-	dtNUMBER	-	-	-
0..1											-	dtNUMBER	-	-	-
0..1											-	dtNUMBER	-	-	20fd
0..1											-	dtMLSTRING	250	Yes	2005
0..1											-	dtMLSTRING	250	Yes	2005
1											-	dtNUMBER	-	-	20
0..*											-	-	-	-	21
1											-	-	-	-	-
1											-	dtNUMBER	-	-	21
0..1											-	dtNUMBER	-	-	21
1..1											-	dtMLSTRING	80	Yes	21
0..1											-	dtMLSTRING	250	Yes	21
0..1											-	dtCOUNT	-	-	2005fd
1											-	dtNUMBER	-	-	21

Amount	Element name										Default value	Data type	Field length	Lang. specific	l.chg. in ver.
0..1											-	dtNUMBER	-	-	20v1
0..1											-	-	-	-	21fd
1											-	-	-	-	-
1..*											-	-	-	-	21
1											-	-	-	-	-
0..1											-	dtCOUNT	-	-	2005fd
0..1											-	dtMLSTRING	80	Yes	20v1
0..1											-	dtSTRING	30	-	20v1
0..1											-	dtMLSTRING	250	Yes	20v1
0..1											-	-	-	-	20v1
1											-	-	-	-	-
1											-	dtFLOAT	-	-	20v1
1											-	dtFLOAT	-	-	20v1
1											-	-	-	-	20v1
1											-	dtSTRING	250	-	20v1
0..1											-	dtFLOAT	-	-	20v2
0..1											-	dtFLOAT	-	-	20v1
1											-	dtNUMBER	-	-	20
1											-	-	-	-	20v1
1											-	-	-	-	-
1..*											-	-	-	-	20v1
1											-	-	-	-	-
0..1											1	dtCOUNT	-	-	2005fd
0..1											-	dtSTRING	80	-	2005
0..1											vat	dtSTRING	250	-	2005
0..1											-	dtNUMBER	-	-	-
0..1											-	dtNUMBER	-	-	-
0..1											-	dtNUMBER	-	-	20fd
0..1											-	dtMLSTRING	250	Yes	2005
0..1											-	dtMLSTRING	250	Yes	2005
0..1											-	dtNUMBER	-	-	21
0..1											-	dtNUMBER	-	-	21
0..1											-	dtNUMBER	-	-	21
0..1											-	dtNUMBER	-	-	21
0..*											-	-	-	-	21
1											-	-	-	-	-
1											-	dtNUMBER	-	-	21
0..1											-	dtNUMBER	-	-	21
1..1											-	dtMLSTRING	80	Yes	21
0..1											-	dtMLSTRING	250	Yes	21
0..1											-	-	-	-	-
1											-	-	-	-	-
1..*											-	-	-	-	21fd
1											-	-	-	-	-
0..1											-	dtSTRING	30	-	21fd
1											-	-	-	-	-
1											-	-	-	-	-

Amount	Element name										Default value	Data type	Field length	Lang. specific	I.chg. in ver.
1..1											-	dtMLSTRING	255	Yes	-
0..*											-	dtSTRING	100	-	21fd
1..*											-	-	-	-	20v2
1											-	-	-	-	-
1											-	base64Binary	-	-	20v3
0..1											-	dtSTRING	250	-	20v2
0..1											-	dtCOUNT	-	-	20v2
0..1											-	dtMLSTRING	250	Yes	-
0..1											-	dtMLSTRING	80	Yes	2005fd
0..1											-	dtSTRING	20	-	20v3
0..1											-	dtINTEGER	-	-	-
0..*											-	dtMLSTRING	64000	Yes	-
0..1											-	udxiTEM	-	-	20v1
1											-	-	-	-	20v2
1											-	-	-	-	-
1											-	dtCOUNT	-	-	2005fd
1											-	dtNUMBER	-	-	21
1											-	dtNUMBER	-	-	20
1											-	-	-	-	20v1
1											-	-	-	-	-
1..*											-	-	-	-	20v1
1											-	-	-	-	-
0..1											1	dtCOUNT	-	-	2005fd
0..1											-	dtSTRING	80	-	2005
0..1											vat	dtSTRING	250	-	2005
0..1											-	dtNUMBER	-	-	-
0..1											-	dtNUMBER	-	-	-
0..1											-	dtNUMBER	-	-	20fd
0..1											-	dtMLSTRING	250	Yes	2005
0..1											-	dtMLSTRING	250	Yes	2005

Overview of elements - alphabetical order

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ACADEMIC_TITLE	-	dtMLSTRING	50	Yes	2005fd
ACCOUNT	-	-	-	-	21fd
ACCOUNTING_INFO	-	-	-	-	2005fd
ACCOUNTING_PERIOD	-	-	-	-	20v2
ACCOUNTING_PERIOD_END_DATE	-	dtDATETIME	-	-	20v2
ACCOUNTING_PERIOD_START_DATE	-	dtDATETIME	-	-	20v2
ADDRESS	-	-	-	-	21fd
ADDRESS_REMARKS	-	dtMLSTRING	250	Yes	-
ALLOW_OR_CHARGE	-	-	-	-	21
ALLOW_OR_CHARGES_FIX	-	-	-	-	21fd
ALLOW_OR_CHARGES_TOTAL_AMOUNT	-	dtFLOAT	-	-	20v1
ALLOW_OR_CHARGE_BASE	-	dtFLOAT	-	-	20v2
ALLOW_OR_CHARGE_DESCR	-	dtMLSTRING	250	Yes	20v1
ALLOW_OR_CHARGE_NAME	-	dtMLSTRING	80	Yes	20v1
ALLOW_OR_CHARGE_SEQUENCE	-	dtCOUNT	-	-	2.0v1
ALLOW_OR_CHARGE_TYPE	-	dtSTRING	30	-	20v1
ALLOW_OR_CHARGE_VALUE	-	-	-	-	20v1
AMOUNT_OVER_CREDIT_LIMIT	-	dtNUMBER	-	-	21
AOC_ADDITIONAL_ITEMS	-	dtSTRING	250	-	20v1
AOC_MONETARY_AMOUNT	-	dtFLOAT	-	-	20v1
AOC_ORDER_UNITS_COUNT	-	-	-	-	20v1
AOC_PERCENTAGE_FACTOR	-	dtFLOAT	-	-	20v1
AUTHENTICATION	-	-	-	-	2005fd
BANK_ACCOUNT	-	dtSTRING	100	-	20fd
BANK_CODE	-	dtSTRING	50	-	20v2

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
BANK_COUNTRY	-	dtCOUNTRIES	-	-	2.0
BANK_NAME	-	dtSTRING	50	-	2.0
BOXNO	-	dtMLSTRING	20	Yes	-
BUYER_IDREF	-	dtSTRING	250	-	2005fd
CALCULATION_SEQUENCE	1	dtCOUNT	-	-	2005
CARD	-	-	-	-	21fd
CARD_AUTH_CODE	-	dtSTRING	10	-	2.0
CARD_EXPIRATION_DATE	-	dtDATETIME	-	-	2.0
CARD HOLDER_NAME	-	dtSTRING	50	-	2.0
CARD_NUM	-	dtSTRING	16	-	2.0
CARD_REF_NUM	-	dtSTRING	50	-	2.0
CASH	-	dtBOOLEAN	-	-	20fd
CENTRAL_REGULATION	false	dtBOOLEAN	-	-	20v3
CHECK	-	dtBOOLEAN	-	-	20fd
CITY	-	dtMLSTRING	50	Yes	-
CLOSING_BALANCE	-	dtNUMBER	-	-	21
CONTACT_DESCR	-	dtMLSTRING	250	Yes	2005fd
CONTACT_DETAILS	-	-	-	-	21fd
CONTACT_ID	-	dtSTRING	60	-	2005
CONTACT_NAME	-	dtMLSTRING	50	Yes	2005fd
CONTACT_ROLE	-	dtMLSTRING	50	Yes	2005fd
CONTROL_INFO	-	-	-	-	-
COST_ACCOUNT	-	dtSTRING	64	-	2005fd
COST_CATEGORY_ID	-	dtSTRING	64	-	2005fd
COST_TYPE	-	dtSTRING	64	-	2005fd
COUNTRY	-	dtMLSTRING	50	Yes	-

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
COUNTRY_CODED	-	dtCOUNTRIES	-	-	2005fd
CREDIT_AVAILABLE	-	dtNUMBER	-	-	21
CREDIT_LIMIT	-	dtNUMBER	-	-	21
CURRENCY	-	dtCURRENCIES	-	-	-
DAYS	-	dtCOUNT	-	-	20fd
DEBIT	-	dtBOOLEAN	-	-	20fd
DELIVERY_IDREF	-	dtSTRING	250	-	20v2
DEPARTMENT	-	dtMLSTRING	50	Yes	2005fd
DIRECT_DEBIT	-	dtNUMBER	-	-	21
DISCOUNT_FACTOR	-	dtFLOAT	-	-	20fd
DOCEXCHANGE_PARTIES_REFERENCE	-	-	-	-	20v3
DOCUMENT_ISSUER_IDREF	-	dtSTRING	250	-	20v3
DOCUMENT_RECIPIENT_IDREF	-	dtSTRING	250	-	20v3
EMAIL	-	dtSTRING	255	-	2005fd
EMAILS	-	-	-	-	2005fd
EXCHANGE_RATE	-	dtNUMBER	-	-	21fd
EXEMPTION_REASON	-	dtMLSTRING	250	Yes	2005
E_BILLING	-	-	-	-	21fd
FAX	-	dtMLSTRING	50	Yes	-
FILE_HASH_VALUE	-	dtSTRING	100	-	21fd
FILE_NAME	-	dtSTRING	250	-	20v2
FILE_SIZE	-	dtCOUNT	-	-	20v2
FIRST_NAME	-	dtMLSTRING	50	Yes	-
FOREIGN_AMOUNT	-	dtNUMBER	-	-	21
FOREIGN_CURRENCY	-	dtCURRENCIES	-	-	21fd
GENERATION_DATE	-	dtDATETIME	-	-	2.0_fd

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
GENERATOR_INFO	-	dtSTRING	250	-	-
HEADER_UDX	-	udxHEADER	-	-	20v1
HOLDER	-	dtSTRING	50	-	2.0
IL_INVOICE_LIST	-	-	-	-	20v3
IL_INVOICE_LIST_ITEM	-	-	-	-	20v3
INVOICELIST	-	-	-	-	20v2
INVOICELIST_DATE	-	dtDATETIME	-	-	20v2
INVOICELIST_HEADER	-	-	-	-	20v2
INVOICELIST_ID	-	dtSTRING	250	-	20v2
INVOICELIST_INFO	-	-	-	-	20
INVOICELIST_ITEM	-	-	-	-	20v2
INVOICELIST_ITEM_LIST	-	-	-	-	20v2
INVOICELIST_SUMMARY	-	-	-	-	20v2
INVOICELIST_TYPE	collective_invoice	dtSTRING	25	-	20v3
INVOICE_DATE	-	dtDATETIME	-	-	21
INVOICE_DESCR	-	dtMLSTRING	300	Yes	20v1
INVOICE_ID	-	dtSTRING	250	-	2.0
INVOICE_ISSUER_IDREF	-	dtSTRING	250	-	20v2
INVOICE_ORIGINAL	-	-	-	-	20fd
INVOICE_RECIPIENT_IDREF	-	dtSTRING	250	-	20v2
INVOICE_REFERENCE	-	-	-	-	20v2
ITEM_UDX	-	udxITEM	-	-	20v1
JURISDICTION	-	dtMLSTRING	250	Yes	2005
LANGUAGE	-	dtLANG	-	-	-
LINE_ITEM_ID	-	dtSTRING	50	-	2.0

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
LOGIN	-	dtSTRING	60	-	2005fd
MIME	-	-	-	-	21fd
MIME_ALT	-	dtMLSTRING	80	Yes	2005fd
MIME_DATA	-	base64Binary	-	-	20v2
MIME_DESCR	-	dtMLSTRING	250	Yes	-
MIME_EMBEDDED	-	-	-	-	20v2
MIME_INFO	-	-	-	-	-
MIME_ORDER	-	dtINTEGER	-	-	-
MIME_PURPOSE	-	dtSTRING	20	-	20v3
MIME_ROOT	-	dtMLSTRING	250	Yes	-
MIME_SOURCE	-	dtMLSTRING	255	Yes	-
MIME_TYPE	-	dtSTRING	30	-	21fd
NAME	-	dtMLSTRING	50	Yes	-
NAME2	-	dtMLSTRING	50	Yes	-
NAME3	-	dtMLSTRING	50	Yes	-
NET_VALUE_EXTRA	-	dtNUMBER	-	-	20v1
NET_VALUE_GOODS	-	dtNUMBER	-	-	21
OPENING_BALANCE	-	dtNUMBER	-	-	21
PARTIES	-	-	-	-	2005fd
PARTY	-	-	-	-	21fd
PARTY_ID	-	dtSTRING	250	-	2005fd
PARTY_ROLE	-	dtSTRING	20	-	21fd
PASSWORD	-	dtSTRING	20	-	2005fd
PAYER_IDREF	-	dtSTRING	250	-	20v2
PAYMENT	-	-	-	-	2.0
PAYMENT_DATE	-	dtDATETIME	-	-	20v2

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
PAYMENT_TERM	-	dtSTRING	250	-	2.0
PAYMENT_TERMS	-	-	-	-	21
PHONE	-	dtMLSTRING	50	Yes	2005fd
POST_DATE	-	dtDATETIME	-	-	21
PUBLIC_KEY	-	dtSTRING	64000	-	1.2_fd
REASON_FOR_TRANSFER	-	dtSTRING	140	-	20v2
REMARKS	-	dtMLSTRING	64000	Yes	-
REMITTEE_IDREF	-	dtSTRING	250	-	20v2
REPORT_UDX	-	udxREPORT	-	-	20fd
RESULT_CODE	-	dtSTRING	20	-	20fd
RESULT_DESCR	-	dtMLSTRING	-	-	20fd
REWARDS	-	-	-	-	21
REWARDS_DESCR	-	dtMLSTRING	250	Yes	21
REWARDS_POINTS	-	dtNUMBER	-	-	21
REWARDS_SUMMARY	-	dtNUMBER	-	-	21
REWARDS_SYSTEM	-	dtMLSTRING	80	Yes	21
SIGNATURE	-	-	-	-	20fd
SIGNATURE_AND_VERIFICATION	-	-	-	-	21fd
SIGNATURE_IN_ORIGINAL	-	dtBOOLEAN	-	-	20fd
STATE	-	dtMLSTRING	50	Yes	-
STOP_AUTOMATIC_PROCESSING	-	dtSTRING	250	-	2.0_fd
STREET	-	dtMLSTRING	50	Yes	-
SUPPLIER_IDREF	-	dtSTRING	250	-	2005fd
Signature	-	-	-	-	21fd
TAX	-	dtNUMBER	-	-	-
TAX_AMOUNT	-	dtNUMBER	-	-	-

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
TAX_BASE	-	dtNUMBER	-	-	20fd
TAX_CATEGORY	-	dtSTRING	80	-	2005
TAX_DETAILS_FIX	-	-	-	-	20v1
TAX_NUMBER	-	dtSTRING	50	-	20v2
TAX_TYPE	vat	dtSTRING	250	-	2005
TERMS_AND_CONDITIONS	-	dtSTRING	250	-	2.0
TIME_FOR_PAYMENT	-	-	-	-	21
TITLE	-	dtMLSTRING	20	Yes	2005fd
TOTAL_AMOUNT	-	dtNUMBER	-	-	20
TOTAL_ITEM_NUM	-	dtCOUNT	-	-	2.0
TOTAL_TAX	-	-	-	-	20v1
URL	-	dtSTRING	255	-	2005fd
VALUE_DATE	-	dtDATETIME	-	-	21
VAT_ID	-	dtSTRING	50	-	2005fd
VERIFICATION	-	-	-	-	20fd
VERIFICATION_ATTACHMENT	-	-	-	-	20fd
VERIFICATION_PARTY_IDREF	-	dtSTRING	250	-	20fd
VERIFICATION_PROTOCOL	-	-	-	-	20fd
VERIFICATION_REPORT	-	-	-	-	20fd
VERIFICATION_SUCCESS	-	dtBOOLEAN	-	-	20fd
VERIFICATION_XMLREPORT	-	-	-	-	20fd
XML_FORMAT	-	dtSTRING	50	-	20fd
XML_SIGNATURE	-	-	-	-	21fd
ZIP	-	dtMLSTRING	20	Yes	-
ZIPBOX	-	dtMLSTRING	20	Yes	-