



Specification BMEcat[®] 2005

Module

Classification Systems, Catalog Groups Systems, and Feature Systems

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1 Introduction

1.1 Overview

The BMEcat[®] format has been developed with the purpose of standardizing the exchange of product catalogs between suppliers and purchasing companies and thus simplifying it. In the underlying model the supplier creates a catalog in electronic form corresponding to the BMEcat[®] standard. In the following this catalog will be named catalog document. The catalog document enables additionally the integration of multimedia product data, for example illustrations, charts, technical documents, operating instructions etc.

BMEcat[®] supports multilingual catalog content as well as multiple languages. The BMEcat[®] format is not limited to tangible products, but can also be used for the description of software, services, rights, information goods, digital products etc. Therefore, in the following the term 'product' respectively 'product catalog' will be expanded to all kinds of commercial goods as far as they are suitable for being represented in a catalog.

Typically the supplier transmits the BMEcat[®] catalog document to a purchasing organization that processes the contents of the catalog document and, for example, imports it into an e-procurement or catalog management system. This procedure is called catalog data exchange. The BMEcat[®] format does not only enable the supplier the transfer of the complete product data, but also for example the update of price data or individual products.

BMEcat[®] catalog documents, however, are not limited to the mere use for transmission to purchasing companies. Rather they are suitable just the same for the update of on-line shops administered by the suppliers, for sales support, for the supply of electronic market places, and quite generally for the transmission of product data - either externally between different companies or internally within a single company.

The use of BMEcat[®] represents an important step on the way to standardized business-to-business e-commerce. Companies which place BMEcat[®] catalogs at their customers' disposal or are able to process their suppliers' BMEcat[®] catalogs, are complying with an important requirement for electronic business transactions, the participation in new trading platforms and the automation of their sales respectively procurement processes. Additionally to BMEcat[®], openTRANS (see www.opentrans.org), a transaction standard based on BMEcat[®] can be employed for the data exchange within the context of order processing.

BMEcat[®] is being developed under the umbrella of the Bundesverband Materialwirtschaft, Einkauf und Logistik e.V. (BME), which is the German Association of Purchasing Managers. The BME is a service provider for its about 6,000 members, which represent more than 80 percent of the purchasing volume of the German industry (about 700 Billion Euros). More information on the BMEcat[®] organization and possibilities to contribute to the standard is available at www.bmecat.org.

1.2 Application of XML

BMEcat[®] catalog documents are coded in XML, the "eXtensible Markup Language". XML is the de-facto standard for data exchange in the internet and is being developed by the World Wide Web Consortium (see <http://www.w3.org/XML>). XML enables the simultaneous codification of structures and data in a catalog document as opposed to, for instance, conventional, less efficient formats like MS Excel files or comma-separated value lists (CSV files). The structure of BMEcat[®] catalog documents is formally very exactly described by use of the language XML Schema (XSDL); this formal specification is published in an accompanying separate document in the form of XSD files and can be accessed via the website www.bmecat.org.

1.3 Supplementary activities and standards

BMEcat[®] standardizes the exchange of electronic product catalogs. Another, though supplementing area of standardization concerns the classification and description of products (and services). For this purpose, product classes and classification hierarchies are being defined for various applications and branches of industry. In addition, the standardized description of products is enabled by product features assigned to the classes. Both are subject of product classification systems such as eCI@ss, ETIM, profiCI@ss, and UNSPSC. The BMEcat[®] standard is not committed to any one of these classification systems and does not in any case recommend any specific BMEcat[®] classifications. Rather the BMEcat[®] standard is conceived in such a way that almost all classification systems known at present can be used for the classification and description of products in BMEcat[®] catalogs.

1.4 Implementation support

The BMEcat® standard is meanwhile being supported by numerous software providers and systems. In particular, this applies to e-procurement systems, sell-side shop systems, electronic market places, service providers taking care of content supply and content maintenance as well as product data and catalog management systems. BMEcat® catalogs can be created and processed with the help of these systems. In addition, special software tools for the production and evaluation of BMEcat® catalogs as well as the conversion of data into the BMEcat® format are offered. For supplementary information, please refer to www.bmecat.org.

The BMEnet GmbH (daughter of BME) offers the certification of BMEcat® catalogs. Target group for the certification are suppliers who receive a test seal for their catalog. Thus they can prove that their catalog fulfills the BMEcat® standard up to 100 %; this information is helpful for customers, operators of procurement portals, market places, electronic procurement systems, and clearing centres. With the presentation of the certified catalogs in the BME portal and the on-line position of the certified catalogs, an efficient research tool for the purchase is provided, and thus a target group-specific marketing and sales platform for the suppliers. For further information please refer to www.bmenet.de.

1.5 Website www.bmecat.org

Inter alia, the following information is provided in German and English on the website www.bmecat.org:

- Download of the specification in different formats
- Download of the specification in form of XML DTD and XML Schema
- Download of example catalogs

Error messages and change messages as well as known errors respectively their corrections can be accessed via the website.

Furthermore, also information about the participation in the BMEcat® development via the BMEcat® change forum can be found.

2 Specification

2.1 Specification structure

The BMEcat® format is described in detail in a total by five documents. These are:

- Specification BMEcat®
- Specification BMEcat® - Module Price Formulas
- Specification BMEcat® - Module Integrated Procurement Point
- Specification BMEcat® - Module Product Configuration
- Specification BMEcat® - Module Classification Systems, Catalog Groups Systems, and Feature Systems

In the module specifications, functions and data areas are described that can be used optionally in each case. For the facilitation of the handling, these have been stored outside in separate partial specifications which are needed only in case the extended functions are used. Wherever necessary in the specification, the module specifications are referred to. The module specifications have been arranged in such a way that they describe a range exclusively within themselves, without having to fall back upon the other modules. This signifies that the module specifications are not non-overlapping. There are for example also formula specifications in the module product configuration, since formulas take care of both the price calculation as well as the calculation of feature values in the course of the configuration.

The detailed specification is supplemented by the technical specification in the form of XSD files as well as example files of BMEcat catalogs®.

In order to facilitate the navigation within the specification documents, relevant key terms (e.g., element names) with cross references are provided that allow the direct jump to the respective place in the document. The cross references are clearly marked in green letters.

References to external resources in the World Wide Web are likewise available (e.g., for definitions of standardized data types) and are shown as blue hyperlinks to enable the direct jump to the relating website.

The **reference of elements** is the main part of the specification. Herein, all elements are defined in the order

they can appear in a BMEcat[®] catalog document. The **alphabetical index of BMEcat[®] elements** allows the quick jump to individual elements. This index as well as the **table of contents** is made of cross references with immediate hyperlinks to the elements.

The appendix is subdivided into three areas: The list of data types describes in detail all data types defined in BMEcat[®] (i.e., base data types, enumeration data types, and special data types). The change history gives an overview in alphabetical order of the elements changed in BMEcat[®] 2005. Last but not least, there are two additional lists of all BMEcat[®] elements (illustration of the document hierarchy, and a-z list).

2.2 Description of elements

Each element is described according to the same scheme. The description is structured as follows:

- the **designation: descriptive element name**,
- the **element name** for the use in XML documents,
- the **explanation** describes the function respectively meaning of the element,
- a chart for the visualization of the sub elements of the element as well as the structural context:

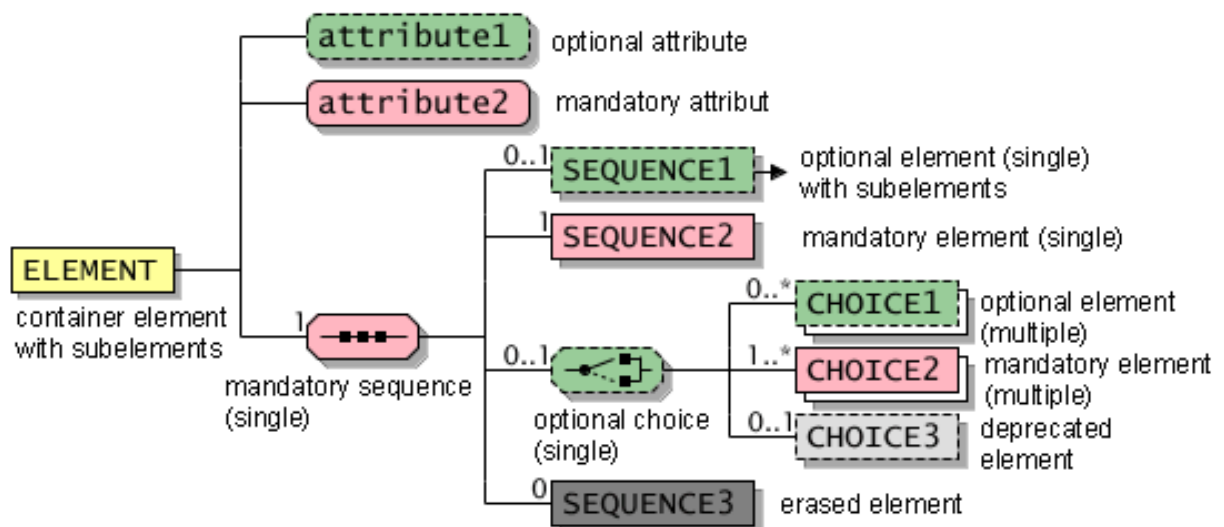
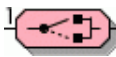
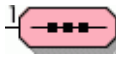


Figure 2-1: Visualization of elements and sub elements

The described element always appears on the left side and is yellow (light); the sub elements appear on the right side one beneath the other; the elements have angular edges, XML attributes have round edges; if a sub element is red (respectively dark), it is a mandatory field; if it is green (respectively light), then it is optionally usable (optional field, also refer to section **mandatory and optional fields**); elements omitted in the next BMEcat[®] version are light grey, elements that are already no longer permitted in the current version are dark grey; the symbols and abbreviations connected with the elements have the following meaning:

- "0...1" as well as a dotted border indicate an optional element that can appear, but does not have to appear;
- "1" as well as a continuous border indicate an element that has to appear exactly once in this place;
- "0...x" as well as a dotted border indicate that the element can appear x times in this place, but it is not required to appear; an "*" (asterisk) stands for an infinite number of appearances;
- "1...x" as well as a continuous border indicate that the element can appear x times in this place, however, it has to appear at least once, an "*" (asterisk) stands for an infinite number of appearances;
- the -symbol indicates that the element can have at least one sub element; if this character is missing, it refers to a leaf element, i.e. a data type has to be indicated in this case.
- the  -symbol indicates that exactly one of the following elements has to appear;
- the  -symbol indicates that the following elements can appear in the given order; mandatory elements have to, optional elements can appear;
- the **table "general"** describes briefly the following characteristics of the element: the column "Used in" demonstrates in which superior elements the respective element can be used; the column "Default value" indicates which value is assigned, if the element is not existing (also refer to section **mandatory**

and optional fields); the column "Data type" indicates the domain of values for the element (if it has no sub elements); the column "Field length" indicates the maximal number of characters that can be assigned to the element (also refer to **symbol codification in XML**); the column "Lang.specific" indicates whether the field contents is dependendt on the language; the column "l.chg. in ver." indicates the BMEcat[®] version in which the element has been changed last,

- the **table "attributes"** lists the attributes used in the element: the column "Designation" contains the name describing the attribute, if possible, in one single word; the column "Attribute name" indicates the XML attribute; the column "Mandatory/optional" indicates, whether the attribute is mandatory or optional (also refer to section **mandatory and optional fields**); the column "Explanation" describes the use of the attribute; the columns "Default value", "Data type", "Field length", "Lang.specific", and "l.chg. in ver." are used like in table "general"; rows with light grey background indicate attributes that will be omitted in the next BMEcat[®] version; attributes that are already no longer permitted in the current version are further listed for the sake of completeness, however, the respective row has a dark grey background,
- if it is further specified how values are to be assigned to an attribute, for each attribute a **table with a list of values** can follow; thereby it is to be differentiated whether the list contains predefined values (i.e., these values are suggested, but also other values can be used in accordance with the description of the attribute), or whether the list contains all permitted values (i.e., only values from this list, no others may be used); the column "Attribute value" indicates the values which can or which have to be assigned to the attribute; the columns "Designation", "Explanation", and "l.chg. in ver." are used like in table "Attributes",
- in the **table "elements"** the sub elements of the respective element are listed in their order; the sub elements are described by the following columns: the column "Element name" contains the notation which has to be used in the XML document; if the sub element itself has no more sub elements, in this column the attributes of the sub element are listed additionally; the columns "Designation", "Mandatory/optional", "Default value", "Data type", "Field length", "Lang.specific", and "l.chg. in ver." are used like in the table "Attributes" respectively "General"; rows with light grey background indicate elements, which are omitted in the next BMEcat[®] versions; attributes which are already no longer permitted in the current BMEcat[®] version are further listed for the sake of completeness, however, the respective row has a dark grey background,
- an **example** complements the element specification; in these examples, all BMEcat[®] elements are black and its values as well as attribute values are blue.

The XML examples show the BMEcat[®] application on the basis of cut-outs from a catalog document. Partly because of space restrictions, the more complex elements are not shown with their complete contents, but only schematically by opening and closing tags, e.g., `<BUYER>...</BUYER>`.

In the describing texts the following symbols are used for giving important information:




Symbol	Meaning
	Attention: reference to possible source of error
	Note: describing note containing additional information
	New from BMEcat [®] 1.2 to BMEcat [®] 2005 final draft

Figure 2-1: Symbols in the BMEcat[®] specification

2.3 Mandatory and optional fields

The BMEcat[®] format makes a distinction between mandatory und optional fields. Mandatory fields are XML elements that have to appear in an XML file adhering to BMEcat[®] within the encompassing context. Optional fields are XML elements that can appear in an XML file adhering to BMEcat[®] within its context. Optional fields in the tables of this specification are green (respectively light), and mandatory fields are red (respectively dark).

A catalog document is adhering to the BMEcat[®] format, if it contains all mandatory fields, and no other than the optional fields defined in the specification are used in the given order and with the specified cardinality.

For example, in BMEcat[®] the short description **DESCRIPTION_SHORT** of a product is a mandatory field within the context **PRODUCT_DETAILS**, whereas the long description **DESCRIPTION_LONG** is an optional field in the same context.

Therefore, if the parent element **PRODUCT_DETAILS** appears in a catalog document, the element **DESCRIPTION_SHORT** has to be existing and must not be empty, whereas the element **DESCRIPTION_LONG** can follow **DESCRIPTION_SHORT**. The next examples illustrate this requirement.

Example 1: Short description only (mandatory field):

```
<PRODUCT_DETAILS>
  <DESCRIPTION_SHORT>File</DESCRIPTION_SHORT>
</PRODUCT_DETAILS>
```

Example 2: Not permitted - Empty short description (mandatory field):

```
<PRODUCT_DETAILS>
  <DESCRIPTION_SHORT></DESCRIPTION_SHORT>
</PRODUCT_DETAILS>
```

Example 3: Short description (mandatory field) and long description (optional field)

```
<PRODUCT_DETAILS>
  <DESCRIPTION_SHORT>File</DESCRIPTION_SHORT>
  <DESCRIPTION_LONG>This file is made of very solid material.</DESCRIPTION_LONG>
</PRODUCT_DETAILS>
```

Determining whether an element has to be used in its context can be resolved by parsing from the outside to the inside. The following example is to illustrate this: The element for skeleton agreement information **AGREEMENT** is an optional field in the context of **HEADER**. Thus, information on skeleton agreements can be stored in the catalog header, though it is not required to provide this information at all. If the decision is made, however, to use the element **AGREEMENT**, in this element the sub elements **AGREEMENT_ID** for the contract number and **DATETIME** have to be indicated for the end date of the contract, since both elements are mandatory in the context of **AGREEMENT**.

The two following examples illustrate this fact.

Example 4 (HEADER without skeleton agreement information):

```
<HEADER>
  <CATALOG>...</CATALOG>
  <BUYER>...</BUYER>
  <SUPPLIER>...</SUPPLIER>
</HEADER>
```

Example 5 (HEADER with skeleton agreement information):

```
<HEADER>
  <CATALOG>...</CATALOG>
  <BUYER>...</BUYER>
  <!-- Here AGREEMENT can be indicated (optional field) -->
  <AGREEMENT>
    <!-- Here AGREEMENT_ID has to be indicated (mandatory field) -->
    <AGREEMENT_ID>21312</AGREEMENT_ID>
    <!-- Here DATETIME (or AGREEMENT_END_DATE) has to be indicated (mandatory field) -->
    <DATETIME type="agreement_end_date">
      <!-- Here DATE has to be indicated (mandatory field) -->
      <DATE>2002-05-31</DATE>
    </DATETIME>
    <!-- Here AGREEMENT_DESCR could be indicated (optional field) -->
  </AGREEMENT>
  <SUPPLIER>...</SUPPLIER>
</HEADER>
```

2.4 Data types

Data types determine the format and the range of values for the elements defined in BMEcat®. Exactly one data type is assigned to each atomic element. The use of data types enables a detailed description of the way how to use an element correctly.

In the BMEcat® format a distinction is made between basic data types, enumeration data types, and special data types.

The **basic data types** define current and frequently used data formats, e.g., character strings, integers, yes/no values etc. Refer to the **Table of basic data types** in the appendix.

Furthermore, **enumeration data types** are used that are based on international standards. An enumeration data type is defined by a set of permissible values being character strings. If an enumeration data type is assigned to an element, then this element can only take on a value from the set of the permissible values. All enumeration data types are indicated in the **table of enumeration data types**.

In the **table of special data types** in the appendix some **special data types** with dedicated functions can be found. For the time being these data types are empty in BMEcat®, thus defined without contents and do not have to be taken further into account by the user. Only in the case of the user specific or module based extension of the BMEcat® format, these data types are defined and concretized anew.

2.5 Character codification in XML

The codification of the individual characters in the XML elements should be indicated in each BMEcat® file. This takes place in the attribute "encoding" of the XML text declaration, e.g., `<?xml version="1.0" encoding="UTF-8" ?>`.

BMEcat® supports all sets of characters mentioned in the XML specification (i.e., ISO-8859-1, UTF-8, and UTF-16). Concerning the UTF sets, each character is usually stored in one or more bytes.

It is important to note that the field length in the column "Field length" refers to the individual character and not to the number of bytes used by the set of characters. For example the "Ü" codified as "Ü" represents a single character.

Concerning this, also refer to **Chapter: Multilingual catalog documents**.

2.6 Version history

Version	Date	Description
1.0	1999-11-08	First version
1.01	2000-01-02	Elimination of individual inconsistencies and revision of the examples
1.2 final draft	2000-12-19	Error corrections, smaller extensions and a general improvement of the documentation
1.2	2001-03-27	Translation of the feedback received on version 1.2 final draft
2005 final draft	2005-05-10	Revision and extension of the functionality; revised form and content of the specification
2005	2005-11-14	Translation of the feedback received on version 2005 final draft

Table 2-1: Version history of BMEcat®

3 Classification systems, catalog group systems, and feature systems

For structuring the catalog, building classes of similar products, and describing products by common features respective systems can be transferred with the **CLASSIFICATION_SYSTEM** element. Eventually, these systems can be referenced on the product level in the context of product features and classification. There are different kinds and terms of these systems, i.e.:

- Catalog group systems for hierarchical navigation within the catalogs,
- Catalog structures for hierarchical navigation within the catalogs,
- Material and product group systems for subdividing an assortment,
- Classification systems for the mostly hierarchical and unequivocal assortment structuring,
- Standardized classification systems (e.g., eCI@ss, ETIM, GPC, proficl@ss, UNSPSC),
- Subject group systems,
- Reference hierarchies,
- Feature systems,
- Feature group systems,
- Feature libraries,
- Feature lexica,
- Feature dictionaries.



For simplification reasons, all of the aforementioned systems are summarized in the BMEcat[®] specification under the generic term classification system.

In BMEcat[®] 2005 the **CLASSIFICATION_SYSTEM** element has been extended and improved in such a way that almost all presently known classification systems can be transferred. The distinction between (1) catalog group systems without feature lists (**CATALOG_GROUP_SYSTEM**), (2) feature systems (**FEATURE_SYSTEM**), and (3) classification systems still existing in BMEcat[®] 1.2, is no longer necessary. Therefore, the **FEATURE_SYSTEM** element - already marked as deprecated in BMEcat[®] 1.2 - has been removed; the **CATALOG_GROUP_SYSTEM** element will be removed in the next BMEcat[®] version and should not be used any longer, if possible.

The underlying BMEcat[®] 2005 data model for classification systems is oriented to a large extent at ISO 13584, the international standard for product description and classification on the basis of classes and features. For details on this standards refer to the document "ISO 13584-1:2001 Industrial automation systems and integration – Parts library – Part 1: Overview and fundamental principles" (see <http://www.iso.ch>).

In a BMEcat[®] catalog document one or several classification systems can be transferred, if any. If the respective classification system is already existing in the target system, then the transmission can be omitted; in this case, the catalog document only transfers product-related classifications (see **PRODUCT_FEATURES** element), but not the definition of the classification system; this scenario applies in particular to standardized classification systems.

3.1 Definition of classification systems

The definition of a classification system is subdivided into several data areas. Depending upon the kind of system, individual data areas can be dropped (e.g., UNSPSC: no features). First of all the system has to be described, e.g.:

- Short and long description,
- Version information,
- Reference to the organization that maintains the system,
- Meta information

The meta information serves for describing the type of hierarchy and in particular the feature organization. This information can both be indicated for the users as well as used by the importing target systems in order to direct presentation respectively processing:

- Class hierarchy: number of levels,
- Naming of the individual hierarchic levels (e.g., segment -> group -> commodity),
- Indication, whether products may be mapped only to the lowest groups (leaves of the classification tree),
- Indication, whether each product may be allocated to one group only ("genuine" classification),
- Indication, whether the hierarchy is balanced, i.e. whether all branches of the hierarchy tree have the same number of levels,
- Indication, whether features of higher groups are inherited to the subordinated groups (feature inheritance).

The two main parts of classification systems are groups respectively features.



In BMEcat[®], the features are defined independently of the groups. Subsequently the features can be used again in the group definitions (formation of feature lists) and, if necessary, they can be supplemented or changed in their definition. Thus the repeated use of the same features is supported and the data volume to be transferred is minimized.

3.2 Definition of features

Features can be described in great detail and comprehensively (**CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE**), on one hand to direct the processing and the representation in target systems and on the other hand to supply the user with a precise feature definition; this is also important in the case the user employs the feature definitions transferred via BMEcat[®] for classification processes.

Inter alia, for each feature the following information can be transferred:

- Feature name, short name, and description,
- Identifier and version,
- Mapping to a feature group (e.g., "measurements" for the feature "length",
- Domain of values (**FEATURE_CONTENT**).

The domain of values is dependent on the data type; thus an interval can be indicated for numeric data types, the minimum and maximum length for character strings, and the value list for enumerations. Further information can be:

- Unit of measurement,
- Value list (**FT_VALUES**): for enumerations the values can either be indicated directly or previously defined values from the range of **ALLOWED_VALUES** can be taken as reference,
- Synonyms for the feature name,
- Feature symbol (e.g., a formula symbol),
- Illustration (e.g., graphic with emphasis on the measure, which represents the feature),
- Distinction of mandatory and optional features,
- Order of appearance of the feature when displayed in target systems,
- Source (e.g., reference to standard),
- Notes for the interpretation,
- Comments for the utilization.

3.3 Definition of groups

For each group (**CLASSIFICATION_GROUP**), at least the identifier and the group name have to be defined. Usually further information is needed, in order to build the group hierarchy by pointing to the superordinate group, and to control and improve both processing by and representation in target systems. Inter alia the following information can be transferred:

- Group name, short name, and description,
- Synonyms for the group name (e.g., for search),
- Illustration (e.g., showing typical products),
- Order of appearance of the group when displayed in target systems,
- Source indication (e.g. reference to standard),
- Notes for the interpretation,
- Comments for the utilization.

Finally, previously defined features can be assigned to the group; all assigned features form the feature lists of the respective group (**CLASSIFICATION_GROUP_FEATURE_TEMPLATES**). If necessary, the allocation can add or change characteristics of the feature.

3.4 Definition of values

For enumeration features, which allow values from a list of predefined values, the values can be defined with **ALLOWED_VALUES**. This definition is independent of the use for a concrete feature; this enables to use the same value several times and minimizes the data volume as well. Inter alia for each value the following information can be transferred:

- Identifier for referencing in feature definitions,
- the value itself,
- Short name (e.g., " PTFE " for "Teflon")
- Synonyms (e.g. , "lilac" for "violet")
- Description/explanation,
- Version information,
- Source (e.g., reference to standard).

3.5 Definition of units of measurement

If the classification system does not use any standardized units of measurement (e.g., SI units) for its features, or the standard features are unknown to the importing target system, the units of measurement themselves can be defined and transferred in BMEcat®. The **UNIT** element takes care of this; the identifier defined in its sub element **UNIT_ID** can be used for referencing from a feature to this unit (**FT_UNIT_IDREF**).

Reference of elements - order by appearance

CLASSIFICATION_SYSTEM

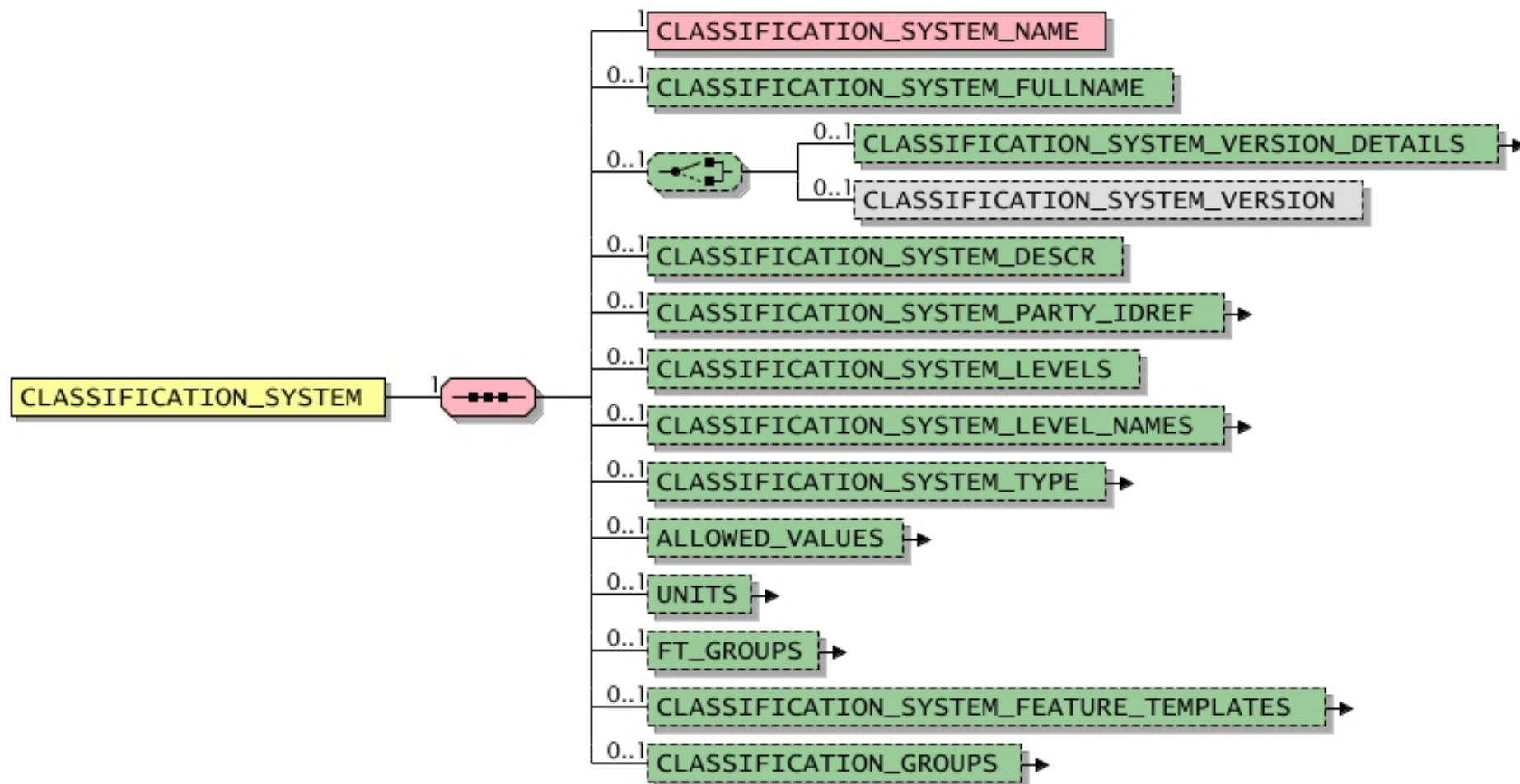
(Classification system)

This element allows to define a classification completely, including groups, synonyms, features and default values (if available).



2005fd: The element was revised and the following sub-elements were added: **CLASSIFICATION_SYSTEM_VERSION_DETAILS**, **CLASSIFICATION_SYSTEM_PARTY_IDREF**, **CLASSIFICATION_SYSTEM_TYPE**





2005: The sub-element **FT_GROUPS** was added.






General

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

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Classification system name	CLASSIFICATION_SYSTEM_NAME	Mandatory	Single	<p>Unique designation of the classification system, this identification must combine the (short) name of the classification system with the version number so that unique referencing of the classification system is possible.</p> <p>The format for the identification number should follow the pattern "<Name>-<MajorVersion>.<MinorVersion>".</p> <p></p> <p>2005fd: The maximum length has been extended from 20 characters to 80 characters. See also: Predefined values for element CLASSIFICATION_SYSTEM_NAME</p> <p>Examples ECLASS-4.1, UNSPSC-6.0801</p> <p><CLASSIFICATION_SYSTEM_NAME>ECLASS-4.1 </CLASSIFICATION_SYSTEM_NAME></p>	-	dtSTRING	80	-	2005fd
Complete name of the classification system	CLASSIFICATION_SYSTEM_FULLNAME	Optional	Single	<p>Full name of the classification system</p> <p></p> <p>2005fd: The maximum length has been extended from 60 characters to 80 characters.</p> <p>Example (eCI@ss) <CLASSIFICATION_SYSTEM_FULLNAME>eClass 5.0 - Standard for Material Classification and Product Groups</CLASSIFICATION_SYSTEM_FULLNAME></p>	-	dtML-STRING	80	Yes	2005fd
Version of the classification system	CLASSIFICATION_SYSTEM_VERSION_DETAILS	Optional	Single	<p>Detailed information on the version of the classification system</p> <p></p>	-	-	-	-	2005fd
Version of the classification system	CLASSIFICATION_SYSTEM_VERSION	Optional	Single	<p>This element contains the version of the classification system.</p> <p>The element CLASSIFICATION_SYSTEM_VERSION will be replaced by the element CLASSIFICATION_SYSTEM_VERSION_DETAILS in future versions and will be omitted then.</p> <p>Example (eCI@ss) <CLASSIFICATION_SYSTEM_VERSION>5.1</CLASSIFICATION_SYSTEM_VERSION></p>	-	dtSTRING	20	-	-
Classification system description	CLASSIFICATION_SYSTEM_DESCR	Optional	Single	<p>Description of the classification system and its content</p> <p></p> <p>2005fd: The maximum length has been extended from 250 characters to 16,000 characters.</p>	-	dtML-STRING	16000	Yes	2005fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Reference to classification system party	CLASSIFICATION_SYSTEM_PARTY_IDREF - type	Optional	Single	Reference to the ID of the organization that creates, maintains and/or provides the classification system. The element has to point to a PARTY_ID within the document. 	-	dt STRING	250	-	2005fd
Number of hierarchical levels	CLASSIFICATION_SYSTEM_LEVELS	Optional	Single	Number of hierarchy levels in the classification system Example (eCI@ss) <CLASSIFICATION_SYSTEM_LEVELS>4</CLASSIFICATION_SYSTEM_LEVELS>	-	dt INTEGER	-	-	-
				Example (ETIM) <CLASSIFICATION_SYSTEM_LEVELS>2</CLASSIFICATION_SYSTEM_LEVELS>					
Designation of the hierarchical levels	CLASSIFICATION_SYSTEM_LEVEL_NAMES	Optional	Single	Specifies the names of the hierarchical levels	-	-	-	-	-
Classification system type	CLASSIFICATION_SYSTEM_TYPE	Optional	Single	Information about the structure of the classification system 	-	-	-	-	2005fd
Allowed values	ALLOWED_VALUES	Optional	Single	List of allowed values	-	-	-	-	-
Units of measurement	UNITS	Optional	Single	Specifies the units of measurement used within the classification system and its features	-	-	-	-	-
Feature groups	FT_GROUPS	Optional	Single	Specifies the feature groups within a classification system; these groups are build upon single feature and categorize them. 	-	-	-	-	2005fd
Features of the classification system	CLASSIFICATION_SYSTEM_FEATURE_TEMPLATES	Optional	Single	Specifies the features used within the classification system	-	-	-	-	-
Classification groups	CLASSIFICATION_GROUPS	Optional	Single	Contains all groups of the classification system	-	-	-	-	-

Predefined values for element CLASSIFICATION_SYSTEM_NAME

Designation	Element value	Explanation	I.chg. in ver.
CPV	CPV-yyyy-mm-dd	Reference to the classification system CPV (Common Procurement Vocabulary) with version date (e.g., CPV-2003-12-16); see siehe http://simap.eu.int	2005fd
eCI@ss	ECLASS-x.y	Reference to the classification system eCI@ss with major version x and minor version y (e.g., ECLASS-5.1); see http://www.eclass-online.com	-
eOTD	EOTD-yyyy-mm-dd	Reference to the classification system eOTD (ECCMA Open Technical Dictionary) with version date (e.g., EOTD-2004-08-01); see http://www.eccma.org	2005fd

Predefined values for element CLASSIFICATION_SYSTEM_NAME

Designation	Element value	Explanation	l.chg. in ver.
ETIM	ETIM-x.y	Reference to the classification system ETIM with major version x and minor version y (e.g., ETIM-2.0); see http://www.etim.de	-
GPC	GPC-x.y	Reference to the classification system EAN.UCC GPC (Global Product Classification) with major version x and minor version y (e.g., GPC-4.0); see http://www.gs1.org	2005fd
profiCl@ss	PROFICLASS-x.y	Reference to the classification system profiCl@ss with major version x and minor version y (e.g., PROFICLASS-2.1); see http://www.proficlass.de	2005fd
RNTD	RNTD-x.y	Reference to the classification system RNTD (RosettaNet Technical Dictionary) with major version x and minor version y (e.g., RNTD-4.0); see http://www.rosettanet.org	2005fd
RUS	RUS-x.y	Reference to the classification system RUS (Requisite Unifying Structure) with major version x and minor version y (e.g., RUS-4.0); see http://rusportal.requisite.com	2005fd
UNSPSC	UNSPSC-x.yyyy	Reference to the classification system UNSPSC with major version x and minor version y (e.g., UNSPSC-6.0801); see http://www.unspsc.org	-
Proprietary classification system	udf_NAME-x.y	Reference to a proprietary (non-standard) classification system. The value has to start with 'udf_' followed by the classification system name in capital letters, hyphen, and version (major version x and minor version y). For example: udf_MYSYSTEM-3.0. The length of the name is limited to 72 characters; the version to 7 characters.	-
Other classification system	User defined value, format: [w\-.]{1,80}	Other standard classification system, which is not pre-defined in BMEcat, can be described in a similar way: The name of the system in capital, followed by a hyphen and the version information. For instance, NAME-3.4. The length of the name is limited to 72 characters. The version information, where major and minor version are separated by a dot, is limited to 7 characters.	2005fd

Example

```

<CLASSIFICATION_SYSTEM>
  <CLASSIFICATION_SYSTEM_NAME>ECLASS-5.0</CLASSIFICATION_SYSTEM_NAME>
  <CLASSIFICATION_SYSTEM_FULLNAME>eClass 5.0 - Standard for Material Classification and Product Groups</CLASSIFICATION_SYSTEM_FULLNAME>
  <CLASSIFICATION_SYSTEM_VERSION_DETAILS>
    <VERSION>5.0</VERSION>
    <VERSION_DATE>2003-10-14</VERSION_DATE>
  </CLASSIFICATION_SYSTEM_VERSION_DETAILS>
  <CLASSIFICATION_SYSTEM_DESCR>eClass is characterized by a four-level hierarchical classification key with a keyword index including 12,000 items. eClass images
the procurement markets for buyers and supports engineers in development, planning and maintenance. Through the access via either the hierarchy or keywords both
experts and occasional users can navigate the classification. The unique feature of eClass is the integration of sets of attributes for describing materials and
services.</CLASSIFICATION_SYSTEM_DESCR>
  <CLASSIFICATION_SYSTEM_LEVELS>4</CLASSIFICATION_SYSTEM_LEVELS>
  <CLASSIFICATION_SYSTEM_LEVEL_NAMES>
    <CLASSIFICATION_SYSTEM_LEVEL_NAME level="1">Segment</CLASSIFICATION_SYSTEM_LEVEL_NAME>
    <CLASSIFICATION_SYSTEM_LEVEL_NAME level="2">Family</CLASSIFICATION_SYSTEM_LEVEL_NAME>
    <CLASSIFICATION_SYSTEM_LEVEL_NAME level="3">Class</CLASSIFICATION_SYSTEM_LEVEL_NAME>
    <CLASSIFICATION_SYSTEM_LEVEL_NAME level="4">Commodity</CLASSIFICATION_SYSTEM_LEVEL_NAME>
  </CLASSIFICATION_SYSTEM_LEVEL_NAMES>
  <CLASSIFICATION_SYSTEM_TYPE>
    <GROUPID_HIERARCHY>false</GROUPID_HIERARCHY>
    <MAPPING_TYPE>single</MAPPING_TYPE>
    <MAPPING_LEVEL>leaf</MAPPING_LEVEL>
    <BALANCED_TREE>yes</BALANCED_TREE>
    <INHERITANCE>no</INHERITANCE>
  </CLASSIFICATION_SYSTEM_TYPE>
  ...
</CLASSIFICATION_SYSTEM>

```

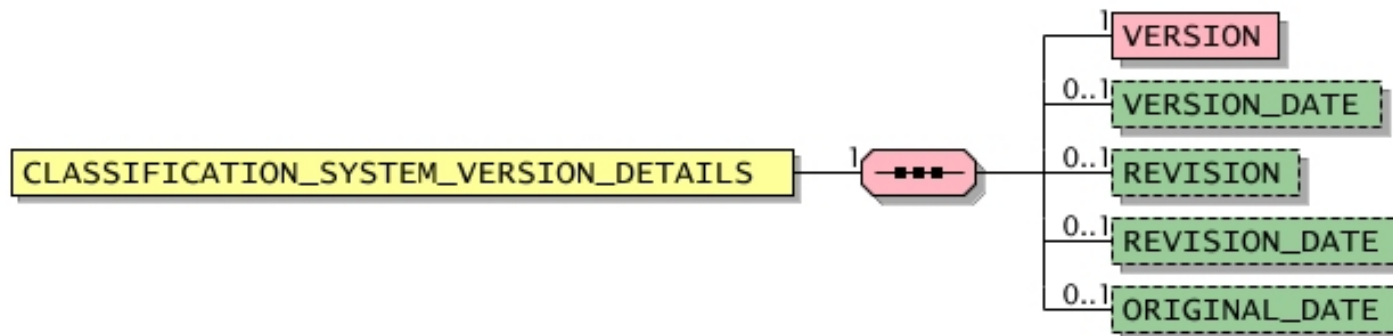
CLASSIFICATION_SYSTEM_VERSION_DETAILS

(Version of the classification system)

This element contains detailed information on the version of the classification system and its version history.






2005fd: This element replaces with a modified semantics the former **CLASSIFICATION_SYSTEM_VERSION** element; it contains the following new sub-elements: **VERSION**, **VERSION_DATE**, **REVISION**, **REVISION_DATE**, **ORIGINAL_DATE**





General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Version	VERSION	Mandatory	Single	Detailed information on the version  2005fd: New element	-	dtSTRING	20	-	2005fd
Version date	VERSION_DATE	Optional	Single	Date of the given version  2005fd: New element	-	dtDATE-TIME	-	-	2005fd
Revision	REVISION	Optional	Single	Revision number of the given version  2005fd: New element	-	dtSTRING	20	-	2005fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Revision date	REVISION_DATE	Optional	Single	Date of the latest revision  2005fd: New element	-	dtDATE-TIME	-	-	2005fd
Original date	ORIGINAL_DATE	Optional	Single	Date of the first version in its first revision  2005fd: New element	-	dtDATE-TIME	-	-	2005fd

Example (eCI@ss)

```
<CLASSIFICATION_SYSTEM_VERSION_DETAILS>
  <VERSION>5.0</VERSION>
  <VERSION_DATE>2003-12-14</VERSION_DATE>
</CLASSIFICATION_SYSTEM_VERSION_DETAILS>
```

CLASSIFICATION_SYSTEM_PARTY_IDREF

(Reference to classification system party)

This element contains a reference to the ID of the organization that creates, maintains and/or provides the classification system. The element has to point to a **PARTY_ID** within the document.



2005fd: New element

CLASSIFICATION_SYSTEM_PARTY_IDREF

type

General

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

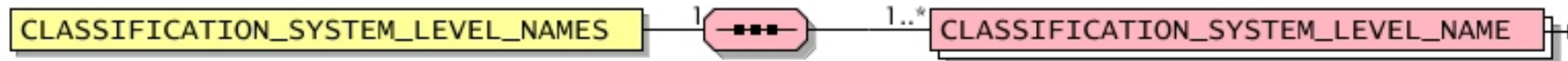
Predefined values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
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.	-

CLASSIFICATION_SYSTEM_LEVEL_NAMES

(Designation of the hierarchical levels)

This element specifies the names of the hierarchy levels.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Name of the hierarchy level	CLASSIFICATION_SYSTEM_LEVEL_NAME - level	Mandatory	Multiple	Name for the hierarchy level *	-	dtML-STRING	80	Yes	2005

CLASSIFICATION_SYSTEM_LEVEL_NAME

(Name of the hierarchy level)

This element contains the name of the hierarchy level of a classification system.



2005: The maximum length has been extended from 60 characters to 80 characters.

CLASSIFICATION_SYSTEM_LEVEL_NAME

level

General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
CLASSIFICATION_SYSTEM_LEVEL_NAMES	-	dtML-STRING	80	Yes	2005

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Number of the hierarchy level	level	Mandatory	The hierarchy levels are sorted according to their order by this attribute. The highest level starts with level number 1.	-	dtINTEGER	-	-	-

Example (eCl@ss)

The classification system eCl@ss defines four hierarchy levels: Segment, Family, Class, and Commodity.

```

<CLASSIFICATION_SYSTEM_LEVEL_NAMES>
  <CLASSIFICATION_SYSTEM_LEVEL_NAME level="1">Segment</CLASSIFICATION_SYSTEM_LEVEL_NAME>
  <CLASSIFICATION_SYSTEM_LEVEL_NAME level="2">Family</CLASSIFICATION_SYSTEM_LEVEL_NAME>
  <CLASSIFICATION_SYSTEM_LEVEL_NAME level="3">Class</CLASSIFICATION_SYSTEM_LEVEL_NAME>
  <CLASSIFICATION_SYSTEM_LEVEL_NAME level="4">Commodity</CLASSIFICATION_SYSTEM_LEVEL_NAME>
</CLASSIFICATION_SYSTEM_LEVEL_NAMES>

```

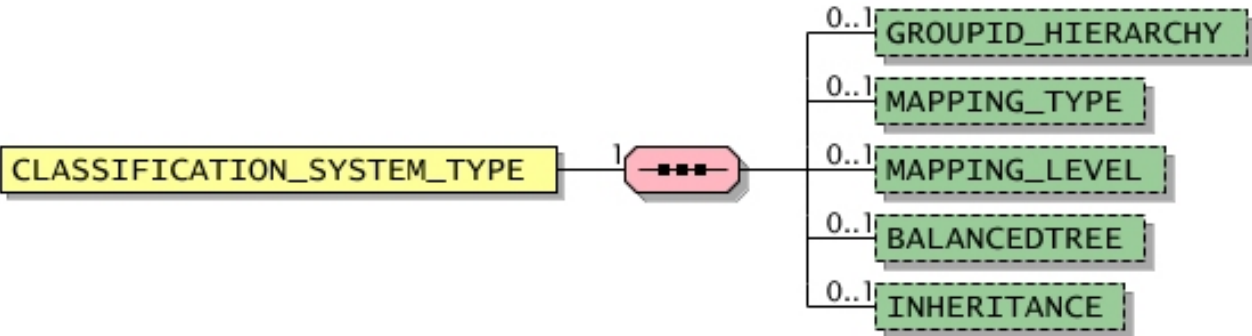
CLASSIFICATION_SYSTEM_TYPE

(Classification system type)

This element contains information about the structure of the classification system, especially about the class hierarchy.









2005fd: New element




General

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

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Group identifier type	GROUPID_HIERARCHY	Optional	Single	<p>This element specifies the type of the group identifiers contained in CLASSIFICATION_GROUP_ID elements: The value 'true' indicates that the group ID describes the position of the group in the hierarchy, since it is a code built from the navigation path to the respective group. If the value is 'false', then the group ID can not be interpreted this way. If the element is missing, no statement about the group ID type is made.</p> <p> When transferring the eCI@ss classification system, this element must be set to 'false', because the first group ID given in the CLASSIFICATION_GROUP_ID element contains the eCI@ss field 'idcl' and the additional group ID given in the CLASSIFICATION_GROUP_ID2 element contains the eCI@ss field 'coded name' (e.g., 21011304).</p> <p> 2005fd: New element</p> <p>Example In the eCI@ss classification system, the group ID 24040105 is actually a code and has to be interpreted as follows: the group belongs to the group number 24 on the top level, to the group 04 on the second level, to the group 01 on the third level, and it is itself the group number 05 on the lowest level.</p>	-	dtBOO-LEAN	-	-	2005fd
Product mapping type	MAPPING_TYPE	Optional	Single	<p>Indicates how products have to be mapped to groups; to one or many groups of the hierarchy.</p> <p> If products may be mapped to multiple group, the respective system is no longer a classification system; this may cause problems how the interpret the product features.</p> <p> 2005fd: New element See also: Permitted values for element MAPPING_TYPE</p>	-	dtSTRING	20	-	2005fd
Product mapping level	MAPPING_LEVEL	Optional	Single	<p>Indicates how products have to be mapped to groups; to leafs or nodes of the hierarchy.</p> <p> 2005fd: New element See also: Permitted values for element MAPPING_LEVEL</p>	-	dtSTRING	20	-	2005fd
Balanced tree	BALANCEDTREE	Optional	Single	<p>Indicates whether the classification tree is balanced (i.e. all sub-trees on the first level have the same number of subordinate levels).</p> <p> 2005fd: New element</p>	-	dtBOO-LEAN	-	-	2005fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Feature inheritance	INHERITANCE	Optional	Single	Indicates whether feature definitions on higher levels are inherited to groups on lower levels. In this case, the features with all their characteristics will be inherited; the characteristics may be further specified respectively limited on the lower level. The actual usage of feature inheritance is subject of the respective classification system which determines how to interpret this concept.  2005fd: New element	-	dtBOO- LEAN	-	-	2005fd

Permitted values for element MAPPING_TYPE

Designation	Element value	Explanation	I.chg. in ver.
Multiple mapping	multiple	Indicates that each product can be mapped to one or many groups.	2005fd
Single mapping	single	Indicates that each product has to be mapped to one group only.	2005fd

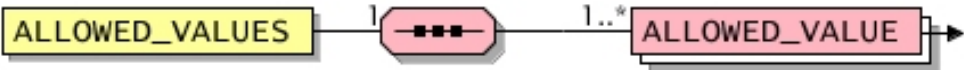
Permitted values for element MAPPING_LEVEL

Designation	Element value	Explanation	I.chg. in ver.
Leaf mapping	leaf	Indicates that products have to be mapped to groups on the leaf level only.	2005fd
Leaf or node mapping	leaf_or_node	Indicates that products can be mapped to groups on the leaf or node level.	2005fd

ALLOWED_VALUES

(Allowed values)


Provides a list of allowed values; each values is defined by a ALLOWED_VALUE element.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Allowed value definition	ALLOWED_VALUE	Mandatory	Multiple	Definition of an allowed value 	-	-	-	-	2005fd

Example

```
<ALLOWED_VALUES>
  <ALLOWED_VALUE>
    <ALLOWED_VALUE_ID>AAA074001</ALLOWED_VALUE_ID>
    <ALLOWED_VALUE_NAME>DN 450 (18)</ALLOWED_VALUE_NAME>
  </ALLOWED_VALUE>
  <ALLOWED_VALUE>
    <ALLOWED_VALUE_ID>AAA075001</ALLOWED_VALUE_ID>
    <ALLOWED_VALUE_NAME>DN 500 (20)</ALLOWED_VALUE_NAME>
  </ALLOWED_VALUE>
  ...
</ALLOWED_VALUES>
```

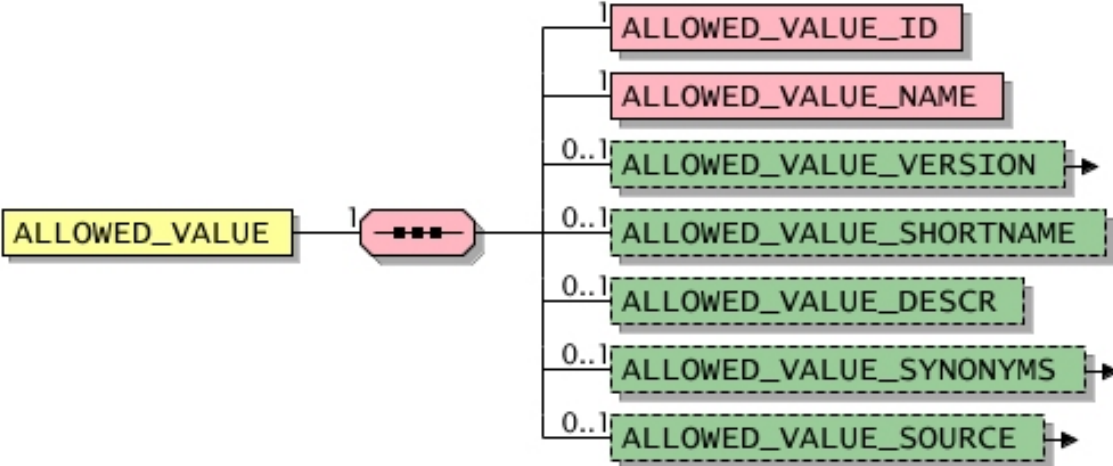
ALLOWED_VALUE

(Allowed value definition)

This element defines an allowed value.



2005fd: This element has been extended by the following sub-elements: ALLOWED_VALUE_VERSION, ALLOWED_VALUE_SHORTNAME, ALLOWED_VALUE_SYNONYMS, ALLOWED_VALUE_SOURCE.








General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Allowed value ID	ALLOWED_VALUE_ID	Mandatory	Single	Unique identifier of the allowed value	-	dtSTRING	60	-	-

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Name of the allowed value	ALLOWED_VALUE_NAME	Mandatory	Single	<p>This element contains the allowed value itself.</p> <p>The value can be language-specific, whereas the ID is independent from the language.</p> <p> 2005fd: The maximum length has been extended from 60 characters to 80 characters.</p> <p>Example</p> <p><code><ALLOWED_VALUE_NAME>crème white</ALLOWED_VALUE_NAME></code></p>	-	dtML-STRING	80	Yes	2005fd
Version of the allowed value	ALLOWED_VALUE_VERSION	Optional	Single	<p>Detailed information on the version of the value</p> <p></p>	-	-	-	-	2005fd
Short name of the allowed value	ALLOWED_VALUE_SHORTNAME	Optional	Single	<p>Short name of the allowed value in addition to its name, e.g. "Bin" for "Built-in"</p> <p> 2005fd: New element</p>	-	dtML-STRING	80	Yes	2005fd
Description of the allowed value	ALLOWED_VALUE_DESCR	Optional	Single	<p>This element can be used to describe the allowed value in more detail.</p> <p>Example</p> <p><code><ALLOWED_VALUE_DESCR>crème white corresponds to RAL 9010</ALLOWED_VALUE_DESCR></code></p>	-	dtML-STRING	250	Yes	-
Allowed value synonyms	ALLOWED_VALUE_SYNONYMS	Optional	Single	<p>List of synonyms of the allowed value</p> <p></p>	-	-	-	-	2005fd
Allowed value source	ALLOWED_VALUE_SOURCE	Optional	Single	<p>Reference to a document, standard or definition describing the allowed value.</p> <p></p>	-	-	-	-	2005

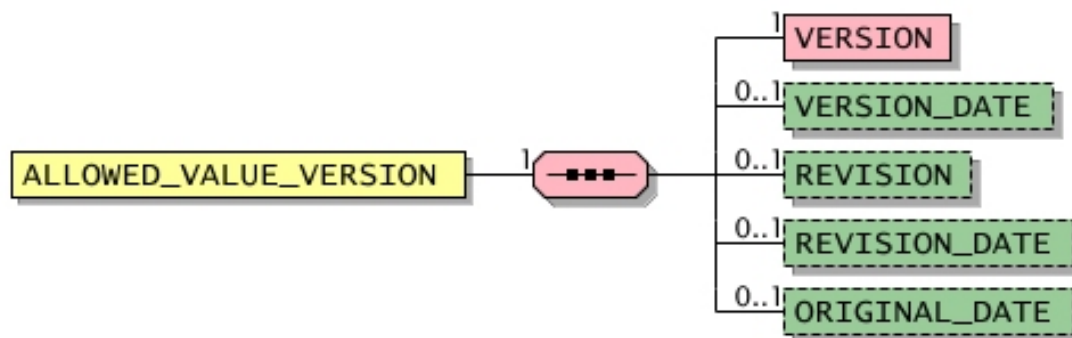
ALLOWED_VALUE_VERSION

(Version of the allowed value)

This element contains detailed information on the version of the allowed value and its version history.



2005fd: New element





General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Version	VERSION	Mandatory	Single	Detailed information on the version 2005fd: New element	-	dt STRING	20	-	2005fd
Version date	VERSION_DATE	Optional	Single	Date of the given version 2005fd: New element	-	dt DATETIME	-	-	2005fd
Revision	REVISION	Optional	Single	Revision number of the given version 2005fd: New element	-	dt STRING	20	-	2005fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Revision date	REVISION_DATE	Optional	Single	Date of the latest revision  2005fd: New element	-	dtDATE-TIME	-	-	2005fd
Original date	ORIGINAL_DATE	Optional	Single	Date of the first version in its first revision  2005fd: New element	-	dtDATE-TIME	-	-	2005fd

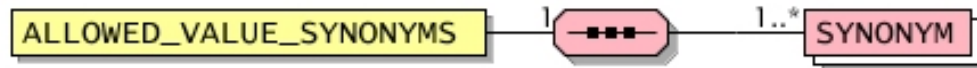
ALLOWED_VALUE_SYNONYMS

(Allowed value synonyms)

This element contains a list of synonyms of the allowed value.




2005fd: New element



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Synonym	SYNONYM	Mandatory	Multiple	The synonym support name-based product search.  2005fd: The maximum length has been extended from 60 characters to 80 characters.	-	dtML-STRING	80	Yes	2005fd

ALLOWED_VALUE_SOURCE

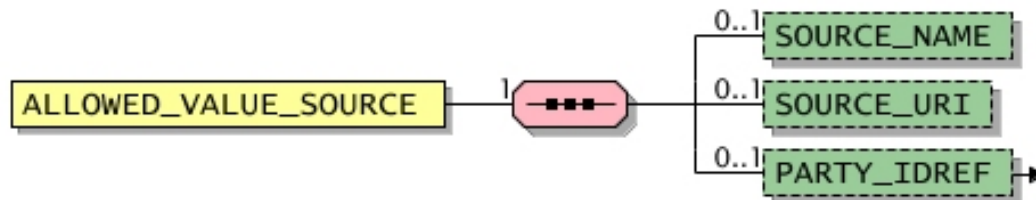
(Allowed value source)

This element contains a reference to a document, standard or definition describing the allowed value.



2005fd: New element

2005: The sub-element **SOURCE_DESCR** was renamed to **SOURCE_NAME**.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Source description	SOURCE_NAME	Optional	Single	Description of the source, e.g., the name of the document or standard 2005fd: New element 2005: This element was named SOURCE_DESCR in Version 2005 final draft, now it is named SOURCE_NAME . The maximum length has been reduced from 250 characters to 80 characters.	-	dtML-STRING	80	Yes	2005
URI of the source	SOURCE_URI	Optional	Single	URI of the source, e.g., pointing to the document or standard 2005fd: New element	-	dtSTRING	255	-	2005fd
Reference to a business partner	PARTY_IDREF - type	Optional	Single	Reference to a business partner. It contains the unique identifier (PARTY_ID) of the respective party (element PARTY). In this context the element is used to reference the organisation which is responsible for the specification of the element. 	-	dtSTRING	250	-	2005fd

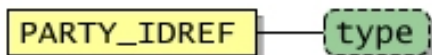
PARTY_IDREF

(Reference to a business partner)

This element provides a reference to a business partner. It contains the unique identifier (**PARTY_ID**) of the respective party (element **PARTY**).



2005fd: New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ALLOWED_VALUE_SOURCE, CLASSIFICATION_GROUP_CONTACTS, CLASSIFICATION_GROUP_SOURCE, FT_SOURCE	-	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

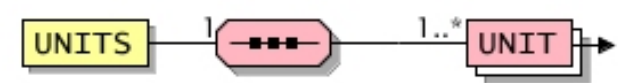
Predefined values for attribute "type"

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.	-

UNITS

(Units of measurement)



This element defines the units of measurement of the features of a classification system. Each unit of measurement is defined by a **UNIT** element. Eventually, the units of measurement can be used to describe features.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Unit of measurement	UNIT - system	Mandatory	Multiple	Describes a unit of measurement used in the classification system.  The element UNIT must not be confused with the data types dtUNIT or dtPUNIT . 	-	-	-	-	2005fd

Example

```

<UNITS>
  <UNIT system="unece">
    <UNIT_ID>C62</UNIT_ID>
    <UNIT_NAME>piece</UNIT_NAME>
  </UNIT>
  <UNIT system="unece">
    <UNIT_ID>INH</UNIT_ID>
    <UNIT_NAME>inch</UNIT_NAME>
    <UNIT_DESCR>corresponds to 2.54 cm</UNIT_DESCR>
  </UNIT>
  ...
</UNITS>
  
```

UNIT

(Unit of measurement)

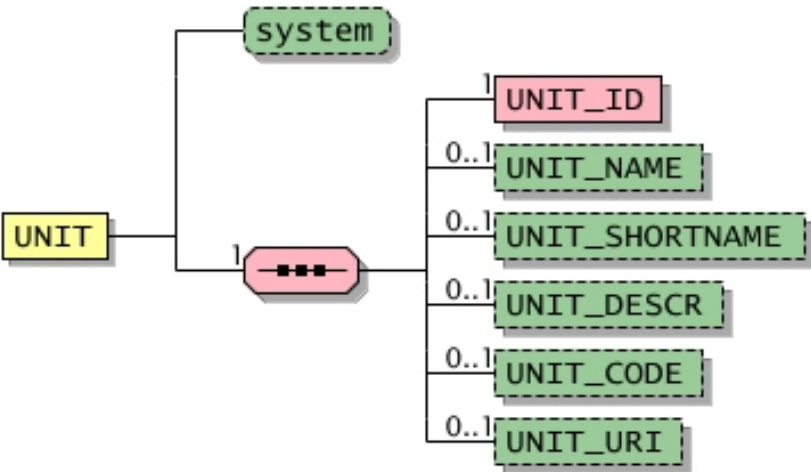
Describes a unit of measurement used in the classification system.



The element **UNIT** must not be confused with the data types **dtUNIT** or **dtPUNIT**.



2005fd: This element has been extended by the following sub-elements:**UNIT_SHORTNAME**, **UNIT_CODE**, **UNIT_URI**



General

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






Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Unit system	system	Optional	This attribute sets the unit system to which the unit of measurement belongs. See also: Predefined values for attribute "system"	-	dtSTRING	20	-	-

Predefined values for attribute "system"

Designation	Attribute value	Explanation	l.chg. in ver.
SI system	si	Units according to Système International d'unités (http://www.bipm.org/en/si)	-
UNECE system	unece	Units according to UNECE Recommendation 20 (see also http://www.unece.org/cefact/recommendations/rec20/rec20_rev3_Annex1e.pdf , see data types UNIT and PUNIT)	-
Other system	User defined value, format: \w{1,20}	Identification of the system. "\w{1,20}" means that the system identification has to be at least 1 character long up to a maximum of 20 characters.	-

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Unit ID	UNIT_ID	Mandatory	Single	Specifies the unique identification of the unit of measurement within the classification system; this identification is required for the description of multi-lingual units within a classification system as well as for referencing the measuring units from the classification group. Identification from standard unit systems should be used (e.g., UNECE, SI) Example: C62 (piece according to UNECE Recommendation 20, http://www.unece.org/cefact/rec/rec20en.htm)	-	dtSTRING	60	-	-
Unit name	UNIT_NAME	Optional	Single	Contains the name of the unit of measurement, e.g., "Megahertz"  2005fd: The maximum length has been extended from 60 characters to 80 characters.	-	dtML-STRING	80	Yes	2005fd
Unit short name	UNIT_SHORTNAME	Optional	Single	Short name of the unit in addition to its name, e.g., "MHz" for "Megahertz"  2005fd: New element	-	dtML-STRING	80	Yes	2005fd
Unit description	UNIT_DESCR	Optional	Single	This element can be used to describe the unit of measurement in more detail.  2005: The maximum length has been extended from 250 characters to 16000 characters.	-	dtML-STRING	16000	Yes	2005
Code of the unit	UNIT_CODE	Optional	Single	Code of the unit in addition to its name, e.g., "MTR" for "Meter", "VLT" for "VOLT"  2005fd: New element	-	dtSTRING	20	-	2005fd
URI of the unit	UNIT_URI	Optional	Single	This element can be used to point to an URI that presents additional information on the unit, e.g., a document or standard  2005fd: New element	-	dtSTRING	255	-	2005fd

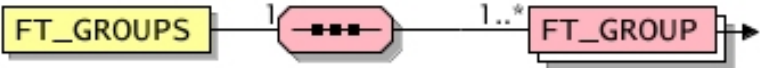
FT_GROUPS

(Feature groups)

This element defines feature groups, which build logical groups or categories of features within in the classification system.



2005fd: New element



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Feature group	FT_GROUP	Mandatory	Multiple	Specifies a feature group 	-	-	-	-	2005fd

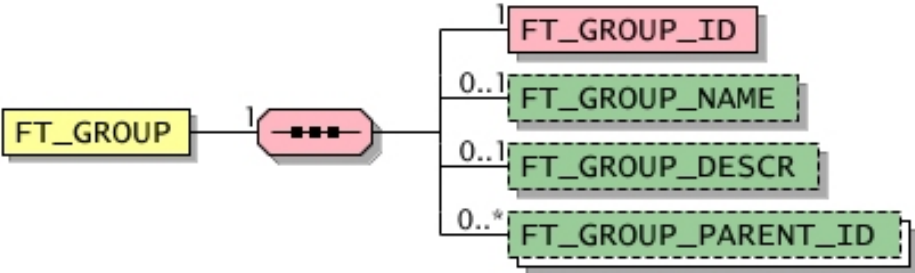
FT_GROUP

(Feature group)

This element specifies a feature group, e.g., "Dimensions" as a group for the features "width", "length", and "height".



2005fd: New element




General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Feature group ID	FT_GROUP_ID	Mandatory	Single	Specifies the unique identification of the feature group within the classification system; this identification is required for referencing the feature group when defining a feature. 2005fd: New element	-	dtSTRING	60	-	2005fd
Feature group name	FT_GROUP_NAME	Optional	Single	Specifies the name of the feature group; e.g., "Technical features" 2005: New element	-	dtML-STRING	80	Yes	2005
Feature group description	FT_GROUP_DESCR	Optional	Single	This element can be used to describe the feature group in more detail. 2005fd: New element	-	dtML-STRING	250	Yes	2005fd

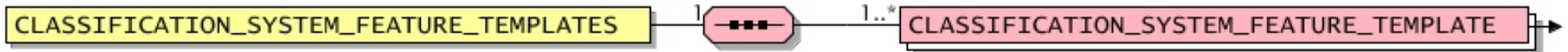
Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Parent group of the feature group	FT_GROUP_PARENT_ID	Optional	Multiple	<p>This element references the unique identification of the parent group for the respective feature group (FT_GROUP_ID). If there is no parent group for the group, this element must not be used.</p> <p></p> <p>2005fd: New element</p>	-	dtSTRING	60	-	2005fd

CLASSIFICATION_SYSTEM_FEATURE_TEMPLATES

(Features of the classification system)



This element contains all features that are defined within the classification system. Based on these, class-specific feature lists can be build (see **CLASSIFICATION_GROUP_FEATURE_TEMPLATES**).



General

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

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Feature of the classification system	CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE	Mandatory	Multiple	<p>Defines a feature of the classification system independently of its usage for a specific group.</p> <p> Those parts of the definition, which depend on the group, can be described by the CLASSIFICATION_GROUP_FEATURE_TEMPLATE element.</p> <p></p>	-	-	-	-	2005

Example

```

<CLASSIFICATION_SYSTEM_FEATURE_TEMPLATES>
  <CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE>
    <FT_ID>13</FT_ID>
    <FT_NAME>Version</FT_NAME>
  </CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE>
  <CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE>
    <FT_ID>1300</FT_ID>
    <FT_NAME>Type of suspension</FT_NAME>
  </CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE>
  ...
</CLASSIFICATION_SYSTEM_FEATURE_TEMPLATES>
  
```

CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE

(Feature of the classification system)

This element defines a feature of the classification system independently of its usage for a specific group. By it, multiple usage of the same or similar feature is enabled.

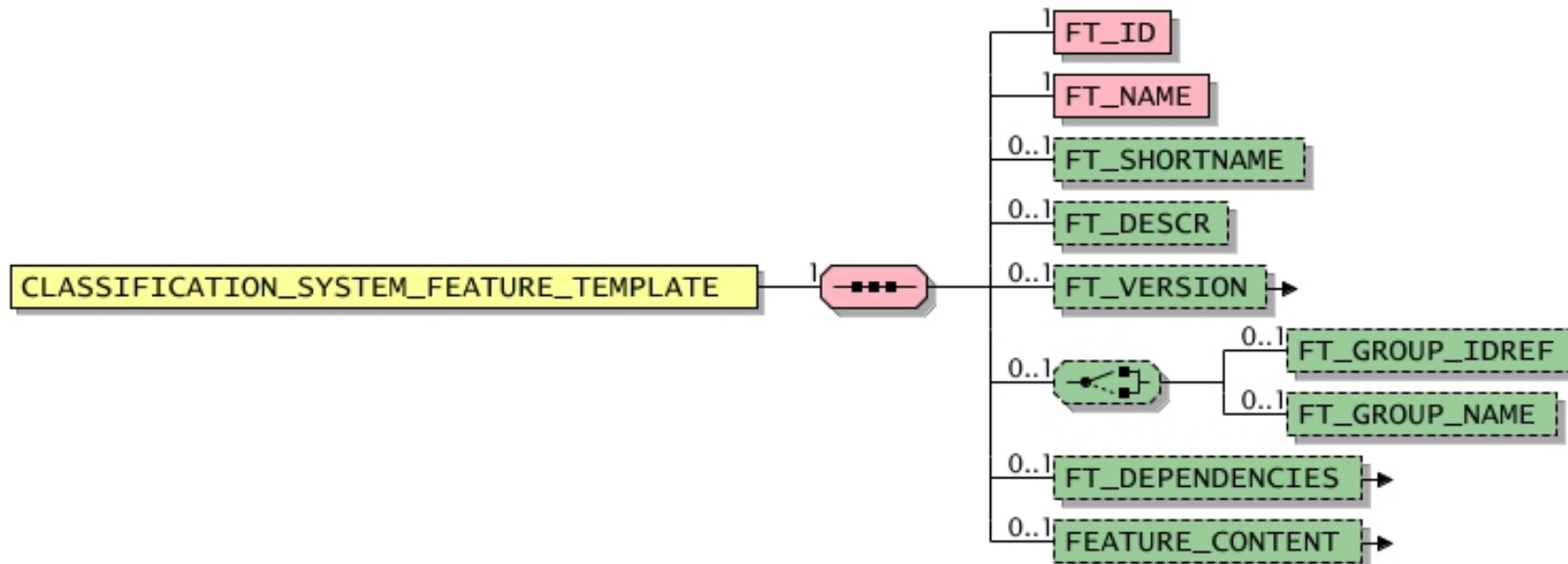


Those parts of the definition, which depend on the group, can be described by the **CLASSIFICATION_GROUP_FEATURE_TEMPLATE** element.



2005fd: The element was revised and the following sub-elements were added: **FT_SHORTNAME**, **FT_VERSION**, **FT_GROUPID**, **FT_GROUPNAME**, **FT_NAME**, **FEATURE_CONTENT**








2005: The sub-elements **FT_GROUPID** and **FT_GROUPNAME** were replaced by the new sub-elements **FT_GROUP_IDREF** and **FT_GROUP_NAME** respectively. The element itself was transformed into an XML-type. The sub-element **FT_DEPENDENCIES** was added.




General

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

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Feature identifier	FT_ID	Mandatory	Single	Unique identifier of the feature. This identifier ist required for referencing the feature from a classification group.	-	dtSTRING	60	-	-
Feature name	FT_NAME	Mandatory	Single	This element defines the feature name.  2005fd: The maximum length has been extended from 60 characters to 80 characters.	-	dtML- STRING	80	Yes	2005fd
Feature short name	FT_SHORTNAME	Optional	Single	Short name of the feature in addition to its name  2005fd: New element	-	dtML- STRING	80	Yes	2005fd
Feature description	FT_DESCR	Optional	Single	Description of the feature and its semantics; it does not describe the value of the feature. This element is especially usefull for describing user-defined, non-standardized features.  2005fd: The maximum length has been extended from 250 characters to 16,000 characters. Example <code><FT_NAME>Colour</FT_NAME></code> <code><FT_DESCR>The feature color represents the color of the tabletop, but not the colour of the table legs.</FT_DESCR></code>	-	dtML- STRING	16000	Yes	2005fd
Version of the feature	FT_VERSION	Optional	Single	Detailled information on the version of the feature 	-	-	-	-	2005fd
Feature group ID reference	FT_GROUP_IDREF	Optional	Single	Reference to the unique ID of a feature group. The reference must point to a FT_GROUP_ID , which has been defined in the FT_GROUP element for the respective classification system.  2005: New element	-	dtSTRING	60	-	2005
Feature group name	FT_GROUP_NAME	Optional	Single	Specifies the name of the feature group; e.g., "Technical features"  2005: New element	-	dtML- STRING	80	Yes	2005
Feature dependencies	FT_DEPENDENCIES	Optional	Single	List of features on which the current feature depends 	-	-	-	-	2005

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Feature content definition	FEATURE_CONTENT	Optional	Single	Detailed information on the feature content, e.g., data type, unit of measurement, domain of values, synonyms, and many more characteristics 	-	-	-	-	2005

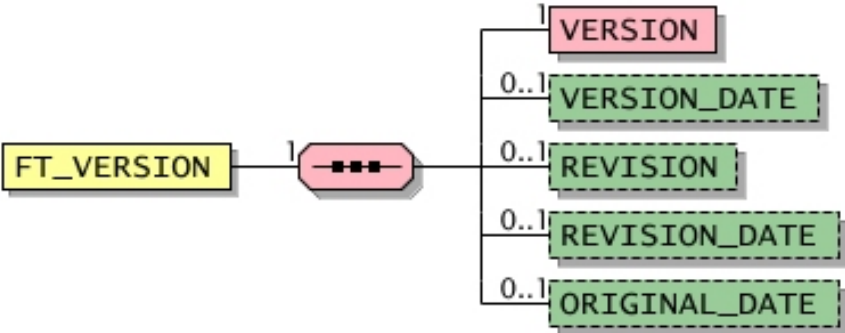
FT_VERSION

(Version of the feature)

This element contains detailed information on the version of the feature and its version history.






2005fd: New element





General

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

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Version	VERSION	Mandatory	Single	Detailled information on the version  2005fd: New element	-	dtSTRING	20	-	2005fd
Version date	VERSION_DATE	Optional	Single	Date of the given version  2005fd: New element	-	dtDATE-TIME	-	-	2005fd
Revision	REVISION	Optional	Single	Revision number of the given version  2005fd: New element	-	dtSTRING	20	-	2005fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Revision date	REVISION_DATE	Optional	Single	Date of the latest revision  2005fd: New element	-	dtDATE-TIME	-	-	2005fd
Original date	ORIGINAL_DATE	Optional	Single	Date of the first version in its first revision  2005fd: New element	-	dtDATE-TIME	-	-	2005fd

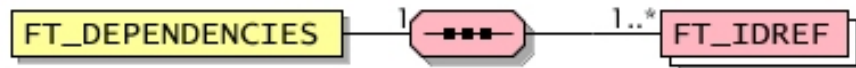
FT_DEPENDENCIES

(Feature dependencies)

This element contains a list of features on which the current feature depends; hence it is possible to express, for instance, that the feature 'length' depends on the feature 'temperature'. The features that determine the current feature are referenced by their identifier.



2005: New element



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
CLASSIFICATION_GROUP_FEATURE_TEMPLATE, CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE	-	-	-	-	2005

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Feature reference	FT_IDREF	Mandatory	Multiple	Reference to the unique ID of a feature (see CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE)	-	dtSTRING	60	-	-

FEATURE_CONTENT

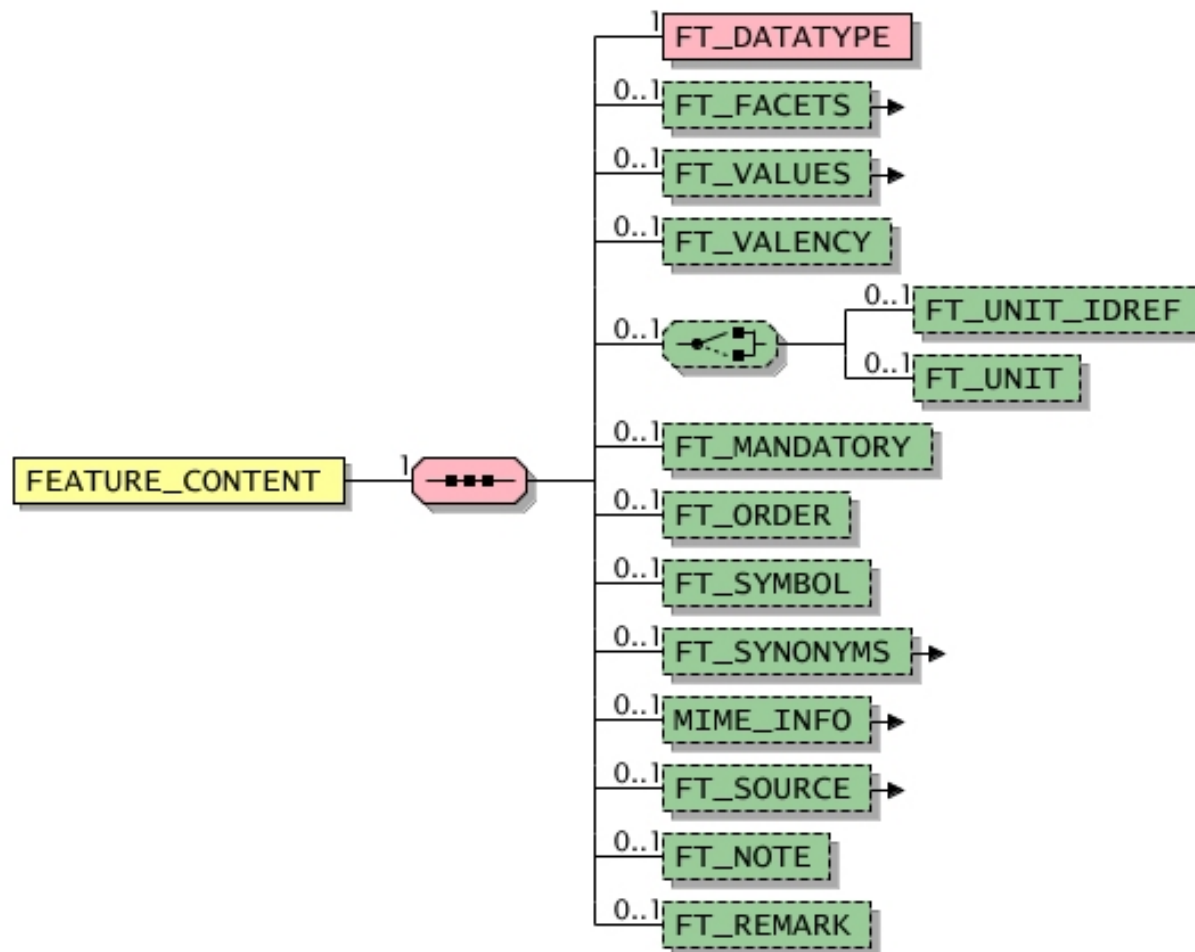
(Feature content definition)

This element contains detailed information on the feature content, e.g., data type, unit of measurement, application, synonyms, and many more characteristics.



2005fd: New element






2005: The sub-element **FT_DOMAIN_VALUES** was renamed to **FT_VALUES**.







General

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


Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Feature data type	FT_DATATYPE	Mandatory	Single	This element contains the data type of the feature. See also: Permitted values for element FT_DATATYPE	-	dtSTRING	20	-	-
Data type restrictions	FT_FACETS	Optional	Single	List of data type restrictions 	-	-	-	-	2005fd
Feature domain values	FT_VALUES	Optional	Single	List of allowed values for the feature (only available for enumerative features) 	-	-	-	-	2005
Feature valency	FT_VALENCY	Optional	Single	Indicates whether the product feature can have more than one value (multivalent) or only one value (univalent).  2005fd: New element See also: Permitted values for element FT_VALENCY	univalent	dtSTRING	20	-	2005fd
Feature unit ID reference	FT_UNIT_IDREF	Optional	Single	Reference to the unique ID of a unit of measurement. The reference must point to a UNIT_ID , which has been defined in the UNIT element for the respective classification system. This element can only be used for defining features of a classification system. Therefore, it can not be used on the product level for defining static features (PRODUCT_FEATURES) or for configuration purposes (CONFIG_FEATURE).  2005fd: This new element replaces with a modified semantics the former FT_UNIT element.	-	dtSTRING	60	-	2005fd
Feature unit	FT_UNIT	Optional	Single	Unit of measurement for the feature; the unit should be coded in accordance with the dtUNIT data type.  2005fd: The maximum length has been extended from 20 characters to 80 characters.	-	dtSTRING	80	-	2005fd
Mandatory feature	FT_MANDATORY	Optional	Single	This element specifies, whether the feature is mandatory or optional; if so, the feature must be used when classifying a respective product.	-	dtBOOLEAN	-	-	-
Feature order	FT_ORDER	Optional	Single	Defines the order (sequence) in which the feature has to be presented in the target system.	-	dtINTEGER	-	-	-







Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Feature symbol	FT_SYMBOL	Optional	Single	Symbol of the feature	-	dtML- STRING	20	Yes	1.2
Feature synonyms	FT_SYNONYMS	Optional	Single	List of synonyms for the feature name 	-	-	-	-	2005fd
Additional multimedia information	MIME_INFO	Optional	Single	Information about multimedia files For example an illustration which clarifies the measurements relevant for the feature or any other feature related document could be added here.	-	-	-	-	-
Feature source	FT_SOURCE	Optional	Single	Source for the feature definition which has been given in the FT_DESCR element; e.g. a reference to a document, standard or definition describing the feature. 	-	-	-	-	2005
Feature note	FT_NOTE	Optional	Single	The note should be extracted from the source of the definition (element FT_SOURCE). It increases the tangibility of the definition. This element has been adopted from ISO 13584.  2005fd: New element	-	dtML- STRING	16000	Yes	2005fd
Feature remark	FT_REMARK	Optional	Single	Remark giving additional information about the feature and its definition. This element has been adopted from ISO 13584.  2005fd: New element	-	dtML- STRING	16000	Yes	2005fd


Permitted values for element FT_DATATYPE

Designation	Element value	Explanation	I.chg. in ver.
Alphanumeric	alphanumeric	Alphanumeric string, see also data type dtSTRING	-
Boolean value	boolean	"true" or "false", see data type dtBOOLEAN	-
Class instance type	class_instance_type	Reference to a classification group. By this type it is possible to define a feature that establishes a relationship to another product class; e.g., feature "component". This type has been adopted from the ISO 13584 standard.  2005: New value	2005

Permitted values for element FT_DATATYPE

Designation	Element value	Explanation	l.chg. in ver.
Positive number	count	Positive number, see also data type dtCOUNT  2005fd: New value	2005fd
Currency	currency	Currency code, see also data type dtCURRENCIES  2005: New value	2005
Date	date	Date, see also data type dtDATETIME  2005fd: New value	2005fd
Date and time	date-time	Date and time, see also data type dtDATETIME  2005fd: New value	2005fd
Floating-point number	float	Floating-point number, see also data type dtFLOAT  2005fd: New value	2005fd
Integer value	integer	Integer value, see also data type dtINTEGER	-
Boolean value	logic	"true" or "false", see data type dtBOOLEAN	-
Named type	named_type	Named type. This type has been adopted from the ISO 13584 standard.  2005: New value	2005
Number	number	Number, see also data type dtNUMBER	-
Numeric	numeric	Numeric, see also data type dtNUMBER	-
Integer range	range-integer	Range definition by two integer values (see also FEATURE , Beispiel 1)	-
Numeric range	range-numeric	Range definition by two numeric values (see also FEATURE , Beispiel 1)	-
Alphanumeric set	set-alphanumeric	Set of alphanumeric values (see also FEATURE , Beispiel 1)	-
Integer set	set-integer	Set of integer values (see also FEATURE , Beispiel 1)	-
Numeric set	set-numeric	Set of numeric values (see also FEATURE , Beispiel 1)	-

Permitted values for element FT_DATATYPE

Designation	Element value	Explanation	l.chg. in ver.
Alphanumeric	string	Alphanumeric string, see also data type dtSTRING	-
Time	time	Time, see also data type dtTIME  2005fd: New value	2005fd

Permitted values for element FT_VALENCY

Designation	Element value	Explanation	l.chg. in ver.
Multivalent	multivalent	The feature can have more than one value.	2005fd
Univalent	univalent	The feature can only have one value.	2005fd

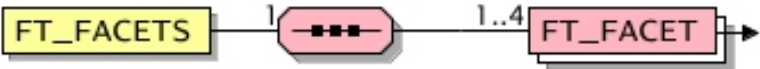
FT_FACETS

(Data type restrictions)

This element contains a list of data type restrictions. The restrictions (**FT_FACET**) are based on: XML Schema Part 2: Data types Second Edition - W3C Recommendation 28 October 2004 (<http://www.w3.org/TR/xmlschema-2/#dt-constraining-facet>)



2005fd: New element



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Data type restriction	FT_FACET - type	Mandatory	Multiple (4)	Restriction of the datatype, e.g. maximum field length 	-	dtSTRING	20	-	2005fd

Example 1: String

The value of the feature ist a string, which has length between 1 and 20 characters.

```
<FEATURE_CONTENT>
  <FT_DATATYPE>string</FT_DATATYPE>
  <FT_FACETS>
    <FT_FACET type="minLength">1</FT_FACET>
    <FT_FACET type="maxLength">20</FT_FACET>
  </FT_FACETS>
</FEATURE_CONTENT>
```

Example 2: Floating-point number

The value of the feature is a floating-point number, which is in the interval $]-5,5]$ and has no more than 4 digits and 2 decimal places.

```
<FEATURE_CONTENT>
  <FT_DATATYPE>float</FT_DATATYPE>
  <FT_FACETS>
    <FT_FACET type="minExclusive">-5</FT_FACET>
    <FT_FACET type="maxInclusive">5</FT_FACET>
    <FT_FACET type="totalDigits">4</FT_FACET>
    <FT_FACET type="fractionDigits">2</FT_FACET>
  </FT_FACETS>
</FEATURE_CONTENT>
```

FT_FACET

(Data type restriction)

This element defines a restriction on a data type, e.g., maximum length of a character string.



2005fd: New element



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
FT_FACETS	-	dtSTRING	20	-	2005fd

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Restriction type	type	Mandatory	This attribute contains the type of the restriction. See also: Permitted values for attribute "type"	-	dtSTRING	20	-	2005fd

Permitted values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
Minimum length	minLength	Defines the minimum length of all string data types, i.e. 'alphanumeric', 'set-alphanumeric' or 'string'.	2005fd
Maximum length	maxLength	Defines the maximum length of string data types, i.e. 'alphanumeric', 'set-alphanumeric' or 'string'.	2005fd
Included lower bound	minInclusive	Defines the included lower bound of numeric data types, i.e. 'count', 'float', 'integer', 'number', 'numeric', 'range-inter', 'range-numeric', 'set-integer' or 'set-numeric'.	2005fd
Included upper bound	maxInclusive	Defines the included upper bound of numeric data types, i.e. 'count', 'float', 'integer', 'number', 'numeric', 'range-inter', 'range-numeric', 'set-integer' or 'set-numeric'.	2005fd
Excluded lower bound	minExclusive	Defines the excluded lower bound of numeric data types, i.e. 'count', 'float', 'integer', 'number', 'numeric', 'range-inter', 'range-numeric', 'set-integer' or 'set-numeric'.	2005fd
Excluded upper bound	maxExclusive	Defines the excluded upper bound of numeric data types, i.e. 'count', 'float', 'integer', 'number', 'numeric', 'range-inter', 'range-numeric', 'set-integer' or 'set-numeric'.	2005fd
Digits	totalDigits	Defines the maximum number of digits of numeric data types, i.e. 'count', 'float', 'integer', 'number', 'numeric', 'range-integer', 'range-numeric', 'set-integer' oder 'set-numeric'.	2005fd

Permitted values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
Decimal places	fractionDigits	Defines the maximum number of decimal places.	2005fd

FT_VALUES

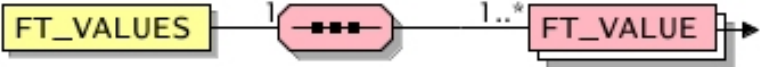
(Feature domain values)

This element contains a list of allowed values for the feature (only available for enumerative features).



2005fd: New element

2005: This element was named **FT_DOMAIN_VALUES** and is now named **FT_VALUES**. The sub-element **FT_DOMAIN_VALUE** was renamed to **FT_VALUE**.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
CLASSIFICATION_GROUP_FEATURE_TEMPLATE, FEATURE_CONTENT	-	-	-	-	2005

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Feature value	FT_VALUE	Mandatory	Multiple	Value being part of the list of values for this feature 	-	-	-	-	2005

FT_VALUE

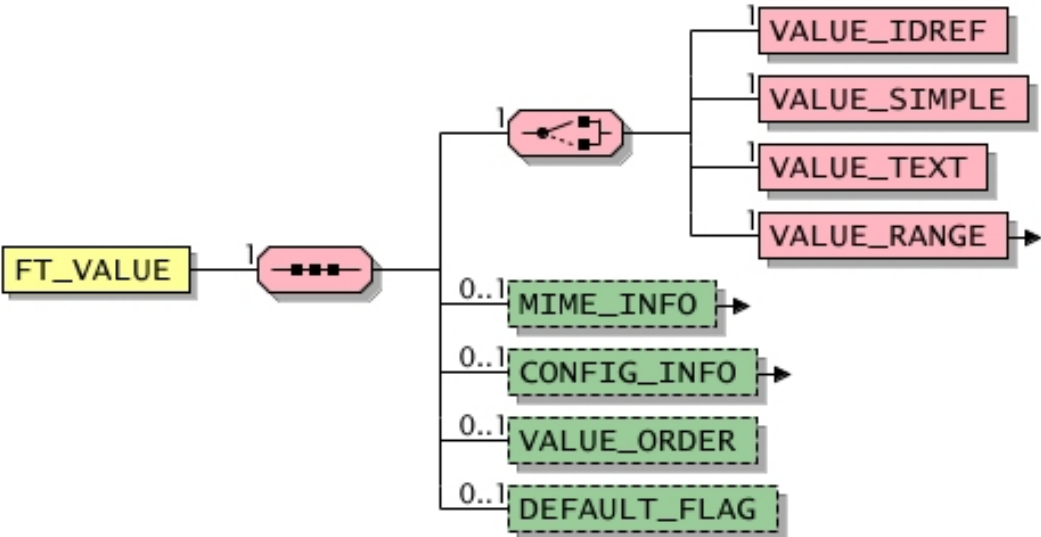
(Feature value)

This element defines a value as part of the list of values for this feature



2005fd: New element








2005: This element was named **FT_DOMAIN_VALUE** in BMEcat 2005 final draft, now it is named **FT_VALUE**.



General

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

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Reference to a value	VALUE_IDREF	Mandatory	Single	Reference to the unique identifier of a value. The reference must point to a value defined in the document (element ALLOWED_VALUE identified by ALLOWED_VALUE_ID). This element can only be used for defining features of a classification system; it can not be used for defining features directly for products (PRODUCT_FEATURES) or for configurations (CONFIG_FEATURE).  2005fd: New element	-	dtSTRING	60	-	2005fd
Atomic value	VALUE_SIMPLE	Mandatory	Single	A single, atomic value  2005fd: New element	-	dtSTRING	80	-	2005fd
Text value	VALUE_TEXT	Mandatory	Single	This element contains a text.  2005fd: New element	-	dtML- STRING	80	Yes	2005fd
Interval of values	VALUE_RANGE	Mandatory	Single	Definition of an interval of values 	-	-	-	-	2005fd
Additional multimedia information	MIME_INFO	Optional	Single	Information about multimedia files For example an illustration which clarifies the value could be added here.	-	-	-	-	-
Configuration information	CONFIG_INFO	Optional	Single	Information on creating order numbers and prices if the enumerative value is subject of product configuration. 	-	-	-	-	2005fd
Value order	VALUE_ORDER	Optional	Single	The order determines how a list of values is presented in target systems, beginning with the lowest number.  2005fd: New element	-	dtINTE- GER	-	-	2005fd
Default flag	DEFAULT_FLAG	Optional	Single	Sets the default value of a list of values  2005fd: New element	-	dtBOO- LEAN	-	-	2005fd

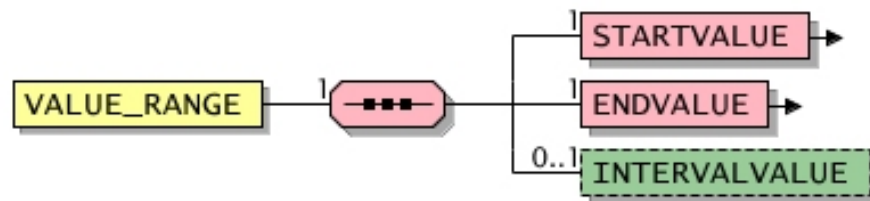
VALUE_RANGE

(Interval of values)

This element defines an interval of values.



2005fd: New element



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Start value	STARTVALUE - intervaltype	Mandatory	Single	Start value of the interval; the value is part of the interval. 	-	dtNUMBER	-	-	2005fd
End value	ENDVALUE - intervaltype	Mandatory	Single	End value of the interval; the value is part of the interval. 	-	dtNUMBER	-	-	2005fd
Distance of values	INTERVALVALUE	Optional	Single	Distance between the values in an interval of discrete values. For instance, a domain for the values 110, 120, 130, ... 220 can be defined by setting the start and end values (110 and 120) and adding the distance (10). 2005fd: New element	-	dtNUMBER	-	-	2005fd

STARTVALUE

(Start value)

This element sets the start value of the interval, thus the lower bound that is part of the interval.



2005fd: New element



General

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

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Interval type	intervaltype	Optional	This attribute indicates whether the value is part of the domain or not See also: Permitted values for attribute "intervaltype"	include	dtSTRING	20	-	2005fd

Permitted values for attribute "intervaltype"

Designation	Attribute value	Explanation	I.chg. in ver.
Value excluded	exclude	Indicates that the value is not part of the domain	2005fd
Value included	include	Indicates that the value is part of the domain	2005fd

ENDVALUE

(End value)

This element sets the end value of the interval, thus the upper bound that is part of the interval.



2005fd: New element



General

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

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Interval type	intervaltype	Optional	This attribute indicates whether the value is part of the domain or not See also: Permitted values for attribute "intervaltype"	include	dtSTRING	20	-	2005fd

Permitted values for attribute "intervaltype"

Designation	Attribute value	Explanation	I.chg. in ver.
Value excluded	exclude	Indicates that the value is not part of the domain	2005fd
Value included	include	Indicates that the value is part of the domain	2005fd

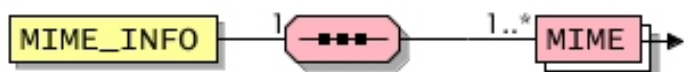
MIME_INFO

(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 is transferred (separately) and that it is imported relative to the directory specified in the **HEADER** as **MIME_ROOT**.

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.



General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
CATALOG_STRUCTURE, CLASSIFICATION_GROUP, CLASSIFICATION_GROUP_FEATURE_TEMPLATE, FEATURE_CONTENT, FT_VALUE	-	-	-	-	-

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 only referenced and must be transferred separately.	-	-	-	-	-

Example

```

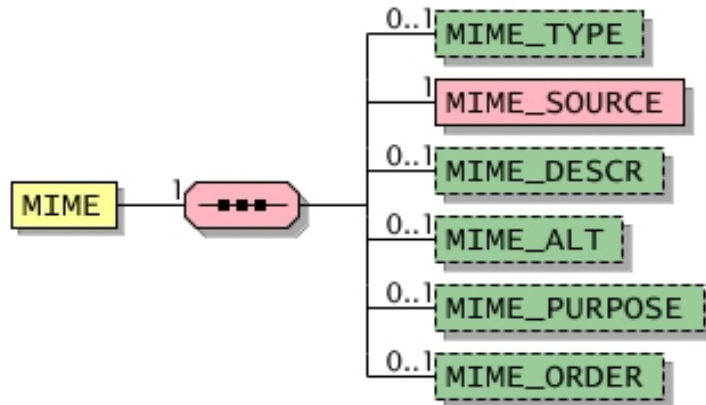
<MIME_INFO>
  <MIME>
    <MIME_TYPE>image/jpeg</MIME_TYPE>
    <MIME_SOURCE>55-K-31.jpg</MIME_SOURCE>
    <MIME_DESCR>Frontal view of the standard DIN A4 letter tray</MIME_DESCR>
    <MIME_ALT>Image of the standard DIN A4 letter tray</MIME_ALT>
    <MIME_PURPOSE>normal</MIME_PURPOSE>
  </MIME>
  <MIME>
    <MIME_TYPE>image/jpeg</MIME_TYPE>
    <MIME_SOURCE>55-K-31k.jpg</MIME_SOURCE>
    <MIME_DESCR>Frontal view of the standard DIN A4 letter tray</MIME_DESCR>
    <MIME_ALT>Image of the standard DIN A4 letter tray</MIME_ALT>
    <MIME_PURPOSE>thumbnail</MIME_PURPOSE>
  </MIME>
  <MIME>
    <MIME_TYPE>application/pdf</MIME_TYPE>
    <MIME_SOURCE>office line 2001.pdf</MIME_SOURCE>
    <MIME_DESCR>Designation of the complete product line office line 2001</MIME_DESCR>
    <MIME_ALT>PDF file for office line 2001</MIME_ALT>
    <MIME_PURPOSE>others</MIME_PURPOSE>
  </MIME>
</MIME_INFO>

```

MIME

(Multimedia document)

This element serves for transferring information about a multimedia file. The file itself is only referenced and must be transferred separately.





General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.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) See also: Predefined values for element MIME_TYPE	-	dtSTRING	30	-	-
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).	-	dtML-STRING	255	Yes	-
Designation	MIME_DESCR	Optional	Single	Description of the additional file. It will be displayed in the target system.	-	dtML-STRING	250	Yes	-

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Alternative text	MIME_ALT	Optional	Single	Alternative text used if the file cannot be represented in the target system, for example.  2005fd: The maximum length has been extended from 50 characters to 80 characters.	-	dtML- STRING	80	Yes	2005fd
Purpose	MIME_PURPOSE	Optional	Single	Desired purpose for which the MIME document is to be used in the target system.  2005fd: The list of allowed values has been extended by 'icon' and 'safety_data_sheet'. See also: Permitted values for element MIME_PURPOSE	-	dtSTRING	20	-	2005fd
Order	MIME_ORDER	Optional	Single	Order in which the additional data is to be represented in the target system. When additional documents are listed they should be represented in ascending order (the first document is the one with the lowest number).	-	dtINTE- GER	-	-	-



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/xhtml1-media-types/xhtml1-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/xhtml1-media-types/xhtml1-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.
Product data sheet	data_sheet	Product data sheet (e.g., technical drawing)	-
Detail view	detail	Enlarged image	-

Permitted values for element MIME_PURPOSE

Designation	Element value	Explanation	l.chg. in ver.
Icon	icon	Small icon, e.g, indicating the fulfilment of a standard  2005fd: New value	2005fd
Logo	logo	Product or supplier logo	1.2_fd
Normal view	normal	Normal view (normal size)	-
Safety data sheet	safety_data_sheet	Safety data sheet (for dangerous materials, for example)  2005fd: New value	2005fd
Thumbnail view	thumbnail	Preview (small)	-
Others	others	Should none of the other values be suitable, others can be used.	-

Example

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>
    <MIME_TYPE>image/jpeg</MIME_TYPE>
    <MIME_SOURCE>charlie.jpg</MIME_SOURCE>
    <MIME_DESCR>Front view of our casual shirt</MIME_DESCR>
    <MIME_ALT>Photo of Charlie</MIME_ALT>
    <MIME_PURPOSE>normal</MIME_PURPOSE>
  </MIME>
  <MIME>
    <MIME_TYPE>application/pdf</MIME_TYPE>
    <MIME_SOURCE>charlie.pdf</MIME_SOURCE>
    <MIME_DESCR>Designation of the production process</MIME_DESCR>
    <MIME_ALT>PDF file belonging to Charlie</MIME_ALT>
    <MIME_PURPOSE>data_sheet</MIME_PURPOSE>
  </MIME>
</MIME_INFO>

```

CONFIG_INFO

(Configuration information)

This element contains information on creating order numbers and prices if the enumerative value is subject of product configuration.






2005fd: New element



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Order number extension	CONFIG_CODE	Mandatory	Single	<p>In order to generate the order number of configured products, this element can be used for coding the result of each configuration step; the unique code is added to the base order number. By adding these codes for each configuration step a unique order number is created. If the configuration requires more than one configuration step, it should be guaranteed that the extensions can be separated. A solution is to standardize the length of each added code; for instance, adding 3 characters, e.g., "003"="black". Another solution is to separate the codes by a hyphen (e.g., "-red").</p> <p> 2005fd: New element</p>	-	dtSTRING	50	-	2005fd
Price details	PRODUCT_PRICE_DETAILS	Optional	Single	<p>Price information for the product</p> <p> A detailed description of the element is contained in a separate document which can be downloaded from the BMEcat website www.bmecat.org.</p> <p> 2005fd: This new element replaces with a modified semantics the ARTICLE_PRICE_DETAILS element; it has been extended by the following sub-elements: VALID_START_DATE, VALID_END_DATE</p>	-	-	-	-	2005fd

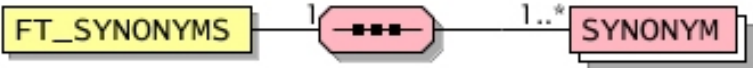
FT_SYNONYMS

(Feature synonyms)

This element contains a list of synonyms for the feature name.




2005fd: New element



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Synonym	SYNONYM	Mandatory	Multiple	The synonym support name-based product search.  2005fd: The maximum length has been extended from 60 characters to 80 characters.	-	dtML-STRING	80	Yes	2005fd

FT_SOURCE

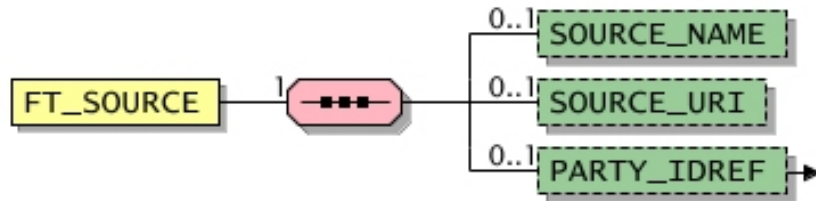
(Feature source)

This element contains the source for the feature definition which has been given in the **FT_DESCR** element; e.g. a reference to a document, standard or definition describing the feature.



2005fd: New element

2005: The sub-element **SOURCE_DESCR** was renamed to **SOURCE_NAME**.




General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
CLASSIFICATION_GROUP_FEATURE_TEMPLATE, FEATURE_CONTENT	-	-	-	-	2005

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Source description	SOURCE_NAME	Optional	Single	Description of the source, e.g., the name of the document or standard 2005fd: New element 2005: This element was named SOURCE_DESCR in Version 2005 final draft, now it is named SOURCE_NAME . The maximum length has been reduced from 250 characters to 80 characters.	-	dtML-STRING	80	Yes	2005
URI of the source	SOURCE_URI	Optional	Single	URI of the source, e.g., pointing to the document or standard 2005fd: New element	-	dtSTRING	255	-	2005fd

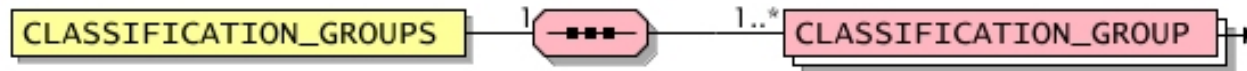
Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Reference to a business partner	PARTY_IDREF - type	Optional	Single	Reference to a business partner. It contains the unique identifier (PARTY_ID) of the respective party (element PARTY). In this context the element is used to reference the organisation which is responsible for the specification of the element. 	-	dtSTRING	250	-	2005fd

CLASSIFICATION_GROUPS

(Classification groups)


This element contains all groups of the classification system and - if available - all feature lists.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Classification group	CLASSIFICATION_GROUP - type - level	Mandatory	Multiple	Defines a group of the classification system 	-	-	-	-	2005

Example

```

<CLASSIFICATION_GROUPS>
...
<CLASSIFICATION_GROUP level="2" type="leaf">
  <CLASSIFICATION_GROUP_ID>1458</CLASSIFICATION_GROUP_ID>
  <CLASSIFICATION_GROUP_NAME>Shaver</CLASSIFICATION_GROUP_NAME>
  <CLASSIFICATION_GROUP_SYNONYMS>
    <SYNONYM>Men's shaver</SYNONYM>
    <SYNONYM>Electric shaver</SYNONYM>
    <SYNONYM>Lady Style shaver</SYNONYM>
    <SYNONYM>Wet / dry shaver</SYNONYM>
    <SYNONYM>Battery / electric shaver</SYNONYM>
    <SYNONYM>Vario-shaver</SYNONYM>
    <SYNONYM>Ladies' shaver</SYNONYM>
    <SYNONYM>Shaver</SYNONYM>
    <SYNONYM>Ladyshave</SYNONYM>
    <SYNONYM>Dry shaver</SYNONYM>
  </CLASSIFICATION_GROUP_SYNONYMS>
  <CLASSIFICATION_GROUP_FEATURE_TEMPLATES>
    <CLASSIFICATION_GROUP_FEATURE_TEMPLATE>
      <FT_IDREF>13</FT_IDREF>
      <FT_MANDATORY>true</FT_MANDATORY>
      <FT_DATATYPE>alphanumeric</FT_DATATYPE>
      <FT_ORDER>5</FT_ORDER>
      <FT_ALLOWED_VALUES>
        <ALLOWED_VALUE_IDREF order="1">16020</ALLOWED_VALUE_IDREF>
        <ALLOWED_VALUE_IDREF order="2">51315</ALLOWED_VALUE_IDREF>
        <ALLOWED_VALUE_IDREF order="3">6917</ALLOWED_VALUE_IDREF>
        <ALLOWED_VALUE_IDREF order="4">6921</ALLOWED_VALUE_IDREF>
        <ALLOWED_VALUE_IDREF order="5">6922</ALLOWED_VALUE_IDREF>
      </FT_ALLOWED_VALUES>
    </CLASSIFICATION_GROUP_FEATURE_TEMPLATE>
    <CLASSIFICATION_GROUP_FEATURE_TEMPLATE>
      <FT_IDREF>1625</FT_IDREF>
      <FT_MANDATORY>true</FT_MANDATORY>
      <FT_DATATYPE>integer</FT_DATATYPE>
      <FT_UNIT>C62</FT_UNIT>
      <FT_ORDER>15</FT_ORDER>
    </CLASSIFICATION_GROUP_FEATURE_TEMPLATE>
  </CLASSIFICATION_GROUP_FEATURE_TEMPLATES>
  <CLASSIFICATION_GROUP_PARENT_ID>112</CLASSIFICATION_GROUP_PARENT_ID>
</CLASSIFICATION_GROUP>
...
</CLASSIFICATION_GROUPS>

```

CLASSIFICATION_GROUP

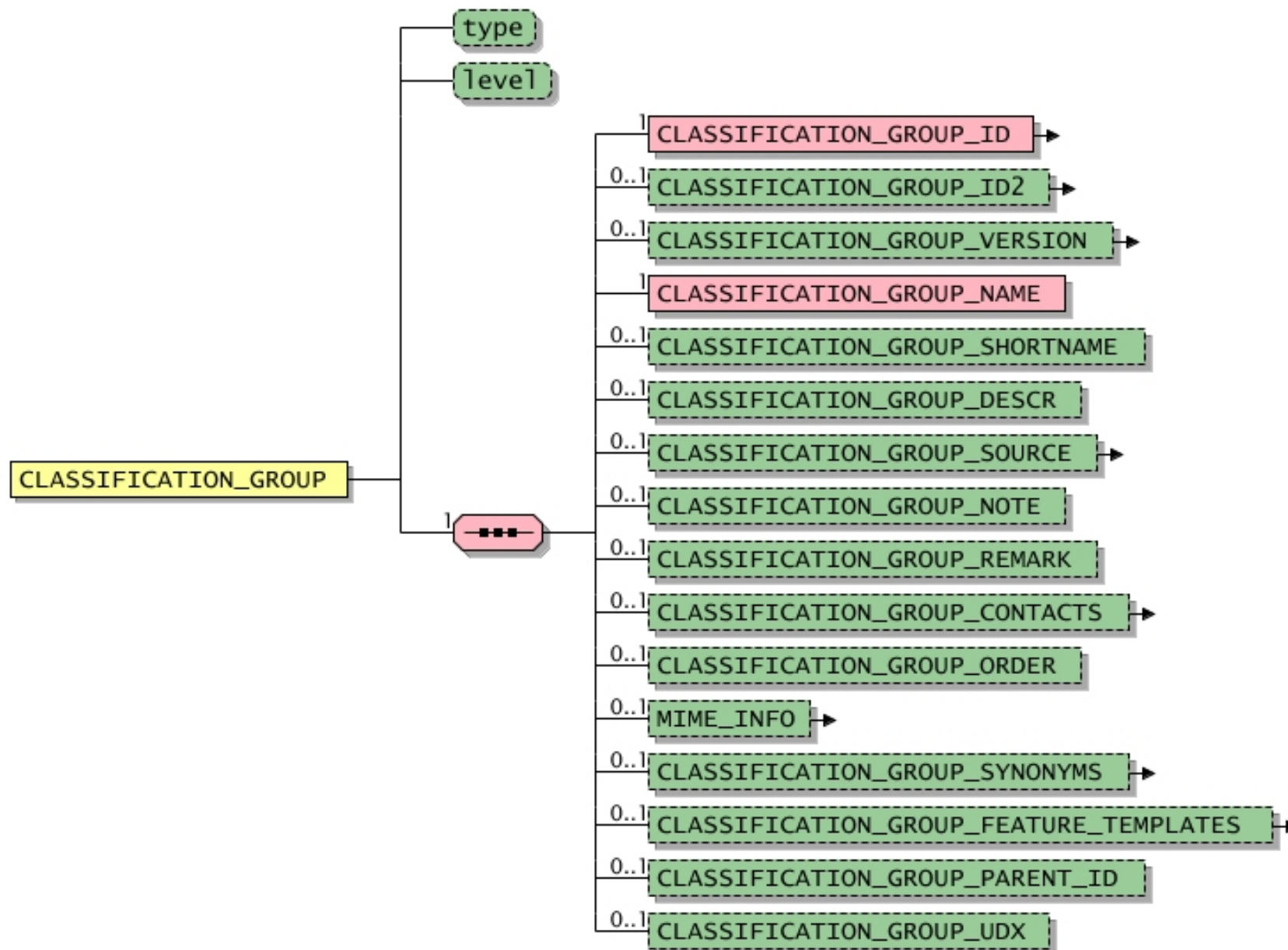
(Classification group)

This element defines a group of the classification system.



2005fd: The element was revised and the following sub-elements were added **CLASSIFICATION_GROUP_ID2**, **CLASSIFICATION_GROUP_VERSION**, **CLASSIFICATION_GROUP_SHORTNAME**, **CLASSIFICATION_GROUP_SOURCE**, **CLASSIFICATION_GROUP_NOTE**, **CLASSIFICATION_GROUP_REMARK**, **CLASSIFICATION_GROUP_CONTACTS**, **CLASSIFICATION_GROUP_ORDER**, **MIME_INFO**, **CLASSIFICATION_GROUP_UDX**


2005: The attribute '**type**' is now optional.



General

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




Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Group type	type	Optional	This attribute specifies whether the group is on the lowest level of the classification system. See also: Permitted values for attribute "type"	-	dtSTRING	4	-	-
Hierarchy level	level	Optional	This attribute specifies the hierarchy level of the group as an integer.  2005fd: The data type of this attribute has been changed from dtINTEGER to dtCOUNT in order to prevent negative hierarchy levels.	-	dtCOUNT	-	-	2005fd







Permitted values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
Leaf	leaf	The group is on the lowest level of the hierarchy.	-
Branch	node	The group is a branch within the hierarchy, i.e. there is at least one group below this group.	-




Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Identification of the group	CLASSIFICATION_GROUP_ID - type	Mandatory	Single	Unique identification of the group within the classification system.  When transferring the eCI@ss classification system, this element has to be filled with the eCI@ss field 'idcl' (primary key). For example: AAA223001.	-	dtSTRING	60	-	-
Additional group ID	CLASSIFICATION_GROUP_ID2 - type	Optional	Single	Additional identifier of the group. This element can be used if the classification system defines two different identifiers for the same group.  When transferring the eCI@ss classification system, this element has to be filled with the eCI@ss field 'coded name' (eCI@ss number). For example: 24-01-04-01. 	-	dtSTRING	60	-	2005fd


Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Group version	CLASSIFICATION_ GROUP_VERSION	Optional	Single	Detailed information about the version of the group. 	-	-	-	-	2005fd
Group name	CLASSIFICATION_ GROUP_NAME	Mandatory	Single	Specifies the unique name of the group within the classification system. The name of a group is language-specific, the identification is not.  2005fd: The maximum length has been extended from 60 characters to 250 characters. Example <CLASSIFICATION_GROUP_NAME>NV halogen lamp</CLASSIFICATI- ON_GROUP_NAME>	-	dtML- STRING	250	Yes	2005fd
Group short name	CLASSIFICATION_ GROUP_SHORTNAME	Optional	Single	Short name of the group in addition to its group name.  2005fd: New element	-	dtML- STRING	80	Yes	2005fd
Additional description of the group	CLASSIFICATION_ GROUP_DESCR	Optional	Single	This element can be used to describe the group in more detail.  2005fd: The maximum length has been extended from 250 characters to 16,000 characters. Example <CLASSIFICATION_GROUP_DESCR>Halogen lamp up to 12 V </CLASSIFICA- TION_GROUP_DESCR>	-	dtML- STRING	16000	Yes	2005fd
Group source	CLASSIFICATION_ GROUP_SOURCE	Optional	Single	Information on the source of the definition that is given in CLASSIFICATION_GROUP_ DESCR , e.g., a reference to a standard. 	-	-	-	-	2005
Classification group no- te	CLASSIFICATION_ GROUP_NOTE	Optional	Single	Note giving additional information about the group and its definition. The note should be taken from the source document of the definition (CLASSIFICATION_GROUP_SOURCE). This element has been adopted from ISO 13584.  2005fd: New element	-	dtML- STRING	16000	Yes	2005fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Group remark	CLASSIFICATION_ GROUP_REMARK	Optional	Single	Remark giving additional information about the group and its definition. The remark contains supplementing information, i.e. it describes a specific aspect that is relevant for using the respective group. This element has been adopted from ISO 13584.  2005fd: New element	-	dtML- STRING	16000	Yes	2005fd
Classification group contacts	CLASSIFICATION_ GROUP_CONTACTS	Optional	Single	The contacts referenced by this element are responsible for the respective group, i.e. for purchasing these types of products. 	-	-	-	-	2005
Group order	CLASSIFICATION_ GROUP_ORDER	Optional	Single	Order number for the graphical user interface. When groups are listed they are always represented in ascending order (the first group is the one with the lowest number).  2005fd: New element	-	dtINTE- GER	-	-	2005fd
Additional multimedia information	MIME_INFO	Optional	Single	Information about multimedia files For example typical product illustrations or other group specific documents could be added here.	-	-	-	-	-
Group synonyms	CLASSIFICATION_ GROUP_SYNONYMS	Optional	Single	List of synonyms for the group name	-	-	-	-	-
Features of the group	CLASSIFICATION_ GROUP_FEATURE_ TEMPLATES	Optional	Single	Contains the features of the group	-	-	-	-	-
Parent group	CLASSIFICATION_ GROUP_PARENT_ID	Optional	Single	This element references the unique identification of the parent group (CLASSIFICATION_ GROUP_ID). If there is no parent group for the group, this element must not be used.	-	dtSTRING	60	-	-

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
User-defined extension	CLASSIFICATION_ GROUP_UDX	Optional	Single	<p>This element marks the area in which user-defined elements can be added to a catalog document. In this way it is possible for supplier and purchasing organization to exchange additional data which is not specified in the standard. The structures of the elements may be complicated. Any XML expressions are permitted.</p> <p>In the various contexts in which they can occur, USER_DEFINED_EXTENSIONS are defined exclusively as Can 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 BMEcat standard. For this reason, all element must start with the string "UDX" (Example: <UDX.supplier.elementname>).</p> <p>When user-defined elements are to be transferred, the entity USERDEFINES, which is defined in the bme cat_base.dtd, must be newly-defined in the XML document. This enables the user to define even complex structures according to his own requirements.</p> <p> 2005fd: New element</p>	-	udx- CLASS- GROUP	-	-	2005fd

Example

see example for the element **CLASSIFICATION_GROUPS** , Beispiel 1

CLASSIFICATION_GROUP_ID

(Identification of the group)

This element contains the unique identification of the group within the classification system.



When transferring the eCI@ss classification system, this element has to be filled with the eCI@ss field 'idcl' (primary key). For example: AAA223001.


CLASSIFICATION_GROUP_ID

type

General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
CLASSIFICATION_GROUP	-	dtSTRING	60	-	-

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Codification	type	Optional	<p>Determines whether the group ID describes the position of the respective group in the hierarchy.</p> <p> 2005fd: New attribute</p> <p>See also: Permitted values for attribute "type"</p>	-	dtSTRING	20	-	2005fd

Permitted values for attribute "type"

Designation	Attribute value	Explanation	I.chg. in ver.
flat	flat	The group ID does not describe the position of the respective group in the hierarchy.	2005fd
Hierarchy	hierarchy	The group ID describes the position of the respective group in the hierarchy.	2005fd

CLASSIFICATION_GROUP_ID2

(Additional group ID)

This element contains an additional identifier of the group. This element can be used if the classification system defines two different identifiers for the same group.



When transferring the eCI@ss classification system, this element has to be filled with the eCI@ss field 'coded name' (eCI@ss number). For example: 24-01-04-01.



2005fd: New element

CLASSIFICATION_GROUP_ID2 — type

General

Used in	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
CLASSIFICATION_GROUP	-	dtSTRING	60	-	2005fd

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Codification	type	Optional	Determines whether the group ID describes the position of the respective group in the hierarchy. See also: Permitted values for attribute "type"	-	dtSTRING	20	-	2005fd

Permitted values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
flat	flat	The group ID does not describe the position of the respective group in the hierarchy.	2005fd
Hierarchy	hierarchy	The group ID describes the position of the respective group in the hierarchy.	2005fd

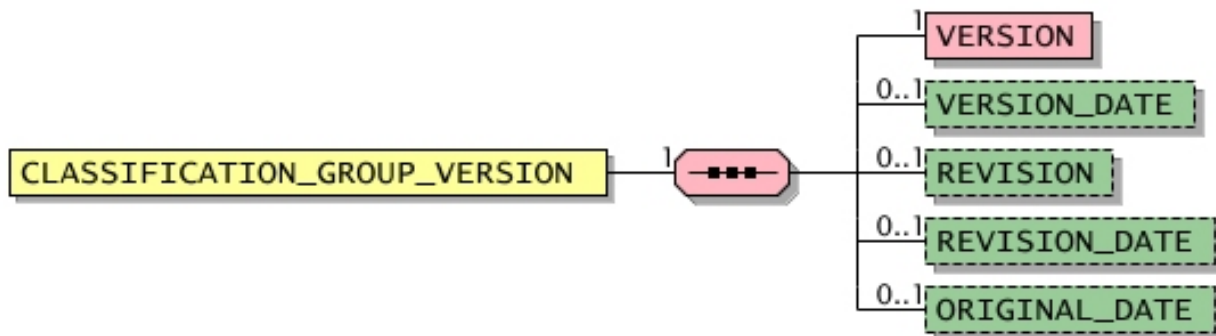
CLASSIFICATION_GROUP_VERSION

(Group version)

This element can be used to describe the version of the group. It consists of current version, revision, date and original version.






2005fd: New element





General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Version	VERSION	Mandatory	Single	Detailled information on the version  2005fd: New element	-	dtSTRING	20	-	2005fd
Version date	VERSION_DATE	Optional	Single	Date of the given version  2005fd: New element	-	dtDATE-TIME	-	-	2005fd
Revision	REVISION	Optional	Single	Revision number of the given version  2005fd: New element	-	dtSTRING	20	-	2005fd

Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Revision date	REVISION_DATE	Optional	Single	Date of the latest revision  2005fd: New element	-	dtDATE-TIME	-	-	2005fd
Original date	ORIGINAL_DATE	Optional	Single	Date of the first version in its first revision  2005fd: New element	-	dtDATE-TIME	-	-	2005fd

CLASSIFICATION_GROUP_SOURCE

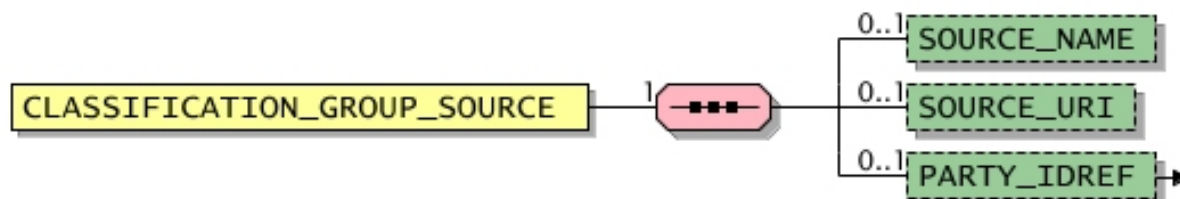
(Group source)

This element provides information on the source of the definition that is given in **CLASSIFICATION_GROUP_DESCR**, e.g., a reference to a standard.



2005fd: New element

2005: The sub-element **SOURCE_DESCR** was renamed to **SOURCE_NAME**.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Source description	SOURCE_NAME	Optional	Single	Description of the source, e.g., the name of the document or standard 2005fd: New element 2005: This element was named SOURCE_DESCR in Version 2005 final draft, now it is named SOURCE_NAME . The maximum length has been reduced from 250 characters to 80 characters.	-	dtML-STRING	80	Yes	2005
URI of the source	SOURCE_URI	Optional	Single	URI of the source, e.g., pointing to the document or standard 2005fd: New element	-	dtSTRING	255	-	2005fd
Reference to a business partner	PARTY_IDREF - type	Optional	Single	Reference to a business partner. It contains the unique identifier (PARTY_ID) of the respective party (element PARTY). In this context the element is used to reference the organisation which is responsible for the specification of the element. 	-	dtSTRING	250	-	2005fd

CLASSIFICATION_GROUP_CONTACTS

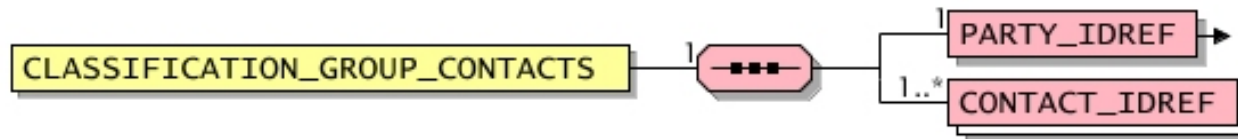
(Classification group contacts)

This element contains contact information for the respective group.



2005fd: New element

2005: The sub-element **CONTACT_IDREF** may occur more than once.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Reference to a business partner	PARTY_IDREF - type	Mandatory	Single	Reference to a business partner. It contains the unique identifier (PARTY_ID) of the respective party (element PARTY). 	-	dtSTRING	250	-	2005fd
Reference to a contact	CONTACT_IDREF	Mandatory	Multiple	This element provides a reference to a contact. It contains the unique identifier CONTACT_ID that is defined for the partner, which has been referenced in the PARTY_IDREF element. 2005fd: New element 2005: The maximum length has been extended from 50 characters to 60 characters.	-	dtSTRING	60	-	2005

CLASSIFICATION_GROUP_SYNONYMS

(Group synonyms)


This element contains the synonyms for the group name.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Synonym	SYNONYM	Mandatory	Multiple	The synonym support name-based product search.  2005fd: The maximum length has been extended from 60 characters to 80 characters.	-	dtML-STRING	80	Yes	2005fd

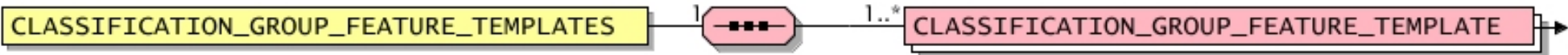
Example

see example for the CLASSIFICATION_GROUPS , Beispiel 1 element

CLASSIFICATION_GROUP_FEATURE_TEMPLATES

(Features of the group)


This element contains the features for the group. The feature list is built by referencing features that have been defined group-independently in the CLASSIFICATION_SYSTEM_FEATURE_TEMPLATES element.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Feature of the group	CLASSIFICATION_GROUP_FEATURE_TEMPLATE	Mandatory	Multiple	Defines a feature of the group by referencing a feature that has been defined group-independently (see CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE element). 	-	-	-	-	2005

Example

see Example for the CLASSIFICATION_GROUPS , Beispiel 1 element

CLASSIFICATION_GROUP_FEATURE_TEMPLATE

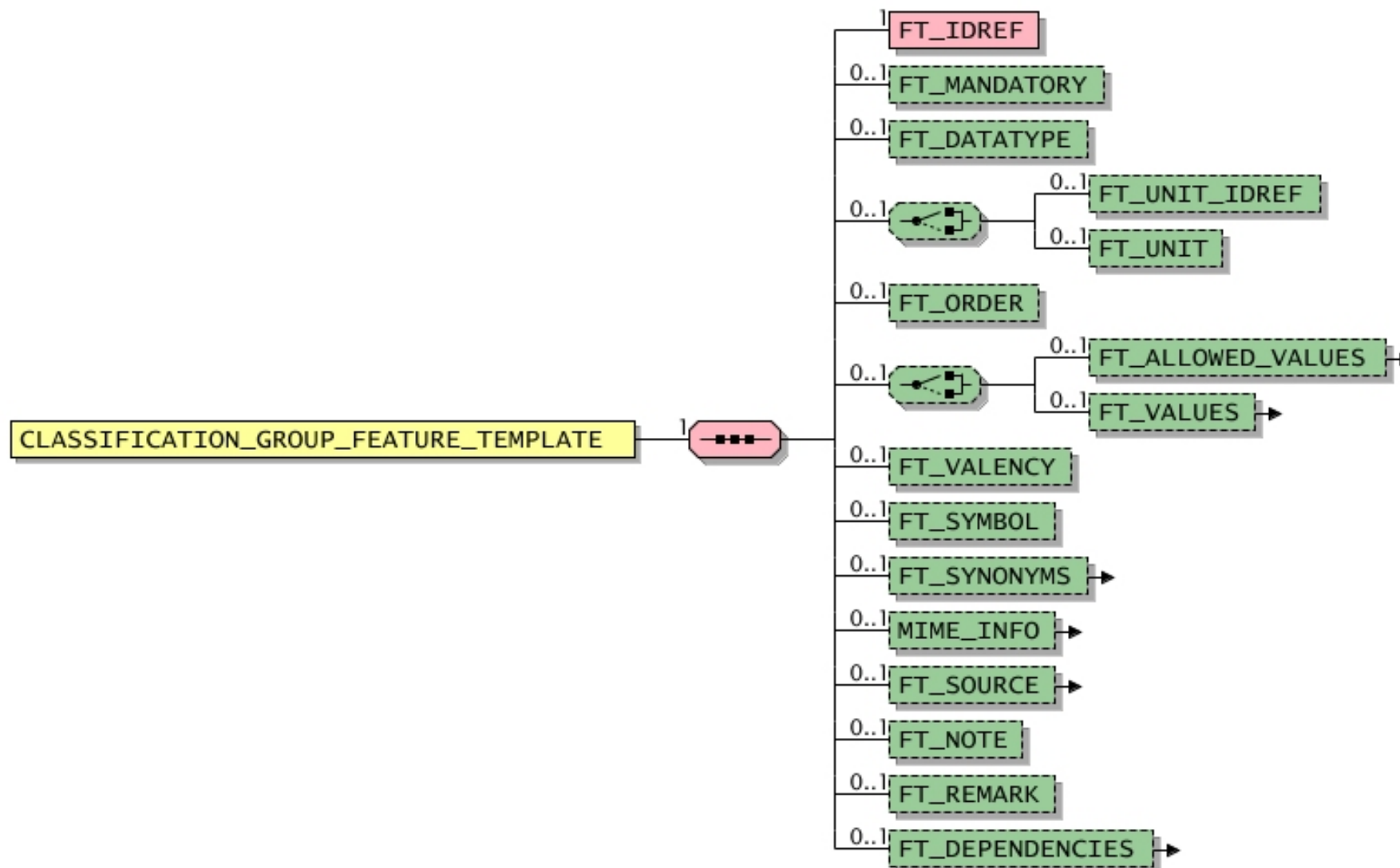
(Feature of the group)

This element defines a feature being part of the feature list of the group. This is done by referencing the group-independent definition (see **CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE** element), which can be complemented or replaced, if necessary.



2005fd: The element was revised and the following sub-elements were added: **FT_VALUES** (in 2005fd FT_DOMAIN_VALUES), **FT_VALENCY**, **FT_SYMBOL**, **MIME_INFO**, **FT_SOURCE**, **FT_NOTE**, **FT_REMARK**





2005: The sub-element **FT_DOMAIN_VALUES** was renamed to **FT_VALUES**. The sub-element **FT_UNIT_IDREF** was added as an alternative to **FT_UNIT**. The sub-elements **FT_MANDATORY** and **FT_DATATYPE** were changed from mandatory elements to optional elements. The sub-element **FT_DEPENDENCIES** was added.








General

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


Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Feature reference	FT_IDREF	Mandatory	Single	Reference to the unique ID of a feature (see CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE)	-	dtSTRING	60	-	-
Mandatory feature	FT_MANDATORY	Optional	Single	This element specifies, whether the feature is mandatory or optional; if so, the feature must be used when classifying a respective product.	-	dtBOOLEAN	-	-	-
Feature data type	FT_DATATYPE	Optional	Single	This element contains the data type of the feature. See also: Permitted values for element FT_DATATYPE	-	dtSTRING	20	-	-
Feature unit ID reference	FT_UNIT_IDREF	Optional	Single	Reference to the unique ID of a unit of measurement. The reference must point to a UNIT_ID , which has been defined in the UNIT element for the respective classification system. This element can only be used for defining features of a classification system. Therefore, it can not be used on the product level for defining static features (PRODUCT_FEATURES) or for configuration purposes (CONFIG_FEATURE).  2005fd: This new element replaces with a modified semantics the former FT_UNIT element.	-	dtSTRING	60	-	2005fd
Feature unit	FT_UNIT	Optional	Single	Unit of measurement for the feature; the unit should be coded in accordance with the dtUNIT data type.  2005fd: The maximum length has been extended from 20 characters to 80 characters.	-	dtSTRING	80	-	2005fd
Feature order	FT_ORDER	Optional	Single	Defines the order (sequence) in which the feature has to be presented in the target system.	-	dtINTEGER	-	-	-
Feature values	FT_ALLOWED_VALUES	Optional	Single	List of allowed values for the feature	-	-	-	-	-
Feature domain values	FT_VALUES	Optional	Single	List of allowed values for the feature (only available for enumerative features) 	-	-	-	-	2005
Feature valency	FT_VALENCY	Optional	Single	Indicates whether the product feature can have more than one value (multivalent) or only one value (univalent).  2005fd: New element See also: Permitted values for element FT_VALENCY	univalent	dtSTRING	20	-	2005fd
Feature symbol	FT_SYMBOL	Optional	Single	Symbol of the feature	-	dtML-STRING	20	Yes	1.2







Elements

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Feature synonyms	FT_SYNONYMS	Optional	Single	List of synonyms for the feature name 	-	-	-	-	2005fd
Additional multimedia information	MIME_INFO	Optional	Single	Information about multimedia files For example an illustration which clarifies the measurements relevant for the feature or any other feature related document could be added here.	-	-	-	-	-
Feature source	FT_SOURCE	Optional	Single	Source for the feature definition which has been given in the FT_DESCR element; e.g. a reference to a document, standard or definition describing the feature. 	-	-	-	-	2005
Feature note	FT_NOTE	Optional	Single	The note should be extracted from the source of the definition (element FT_SOURCE). It increases the tangibility of the definition. This element has been adopted from ISO 13584.  2005fd: New element	-	dtML-STRING	16000	Yes	2005fd
Feature remark	FT_REMARK	Optional	Single	Remark giving additional information about the feature and its definition. This element has been adopted from ISO 13584.  2005fd: New element	-	dtML-STRING	16000	Yes	2005fd
Feature dependencies	FT_DEPENDENCIES	Optional	Single	List of features on which the current feature depends 	-	-	-	-	2005


Permitted values for element FT_DATATYPE

Designation	Element value	Explanation	I.chg. in ver.
Alphanumeric	alphanumeric	Alphanumeric string, see also data type dtSTRING	-
Boolean value	boolean	"true" or "false", see data type dtBOOLEAN	-
Class instance type	class_instance_type	Reference to a classification group. By this type it is possible to define a feature that establishes a relationship to another product class; e.g., feature "component". This type has been adopted from the ISO 13584 standard.  2005: New value	2005

Permitted values for element FT_DATATYPE

Designation	Element value	Explanation	l.chg. in ver.
Positive number	count	Positive number, see also data type dtCOUNT  2005fd: New value	2005fd
Currency	currency	Currency code, see also data type dtCURRENCIES  2005: New value	2005
Date	date	Date, see also data type dtDATETIME  2005fd: New value	2005fd
Date and time	date-time	Date and time, see also data type dtDATETIME  2005fd: New value	2005fd
Floating-point number	float	Floating-point number, see also data type dtFLOAT  2005fd: New value	2005fd
Integer value	integer	Integer value, see also data type dtINTEGER	-
Boolean value	logic	"true" or "false", see data type dtBOOLEAN	-
Named type	named_type	Named type. This type has been adopted from the ISO 13584 standard.  2005: New value	2005
Number	number	Number, see also data type dtNUMBER	-
Numeric	numeric	Numeric, see also data type dtNUMBER	-
Integer range	range-integer	Range definition by two integer values (see also FEATURE , Beispiel 1)	-
Numeric range	range-numeric	Range definition by two numeric values (see also FEATURE , Beispiel 1)	-
Alphanumeric set	set-alphanumeric	Set of alphanumeric values (see also FEATURE , Beispiel 1)	-
Integer set	set-integer	Set of integer values (see also FEATURE , Beispiel 1)	-
Numeric set	set-numeric	Set of numeric values (see also FEATURE , Beispiel 1)	-

Permitted values for element FT_DATATYPE

Designation	Element value	Explanation	l.chg. in ver.
Alphanumeric	string	Alphanumeric string, see also data type dtSTRING	-
Time	time	Time, see also data type dtTIME  2005fd: New value	2005fd

Permitted values for element FT_VALENCY

Designation	Element value	Explanation	l.chg. in ver.
Multivalent	multivalent	The feature can have more than one value.	2005fd
Univalent	univalent	The feature can only have one value.	2005fd

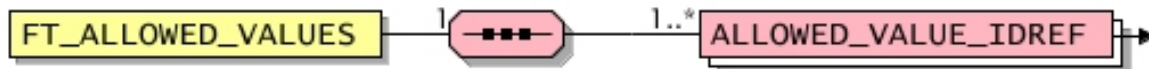
Example

see Example for the **CLASSIFICATION_GROUPS** , **Beispiel 1** element

FT_ALLOWED_VALUES

(Feature values)

This element defines the allowed values for the feature by referring to previously defined values (**ALLOWED_VALUES**).



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Value ID reference	ALLOWED_VALUE_IDREF - order	Mandatory	Multiple	Reference to an allowed value taken from the list of all values (siehe ALLOWED_VALUES) of the classification system.	-	dtSTRING	60	-	-

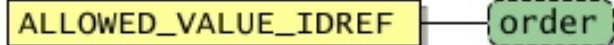
Example

see example for the **CLASSIFICATION_GROUPS** , **Beispiel 1** element

ALLOWED_VALUE_IDREF

(Value ID reference)

This element references an allowed values taken from the list of all values (see **ALLOWED_VALUES**) of the classification system.



General

Used in	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
FT_ALLOWED_VALUES	-	dtSTRING	60	-	-

Attributes

Designation	Attribute name	Mandatory/optional	Explanation	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
Sequence of the allowed value	order	Optional	This attribute contains the sequence, in which target system should list the allowed value within a list of values.	-	dtINTEGER	-	-	-

Example

see example for the **CLASSIFICATION_GROUPS , Beispiel 1** element

CATALOG_GROUP_SYSTEM

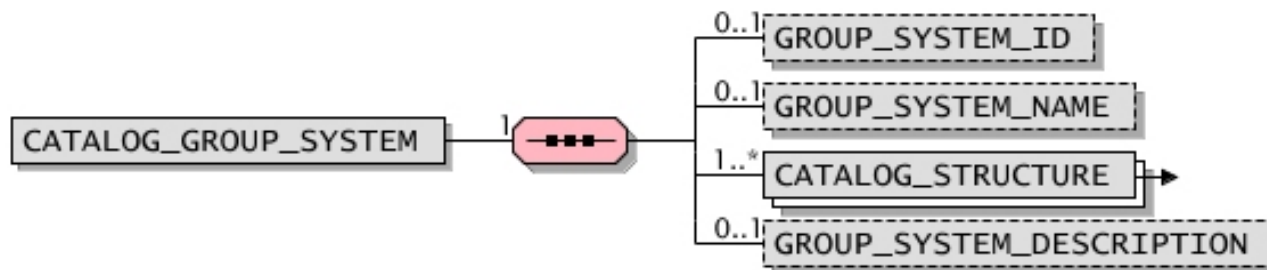
(Catalog group system)

The purpose of a catalog group system is to structure a set of products hierarchically (e.g., division into chapters in printed catalogs, hierarchical browsing in on-line catalogs). A catalog group system can be constructed from the **CATALOG_STRUCTURE** elements using the **CATALOG_GROUP_SYSTEM** element. Product can then be attached to a catalog group (**CATALOG_STRUCTURE**) using the **PRODUCT_TO_CATALOGGROUP_MAP** element (in the context **T_NEW_CATALOG**) or **PRODUCT_TO_CATALOGGROUP_MAP** (in the context **T_UPDATE_PRODUCTS**).

A catalog group system is built starting at the root and working up to its leaves. The structure is created one layer at a time by defining the required subgroup (subsection) for each catalog group. In BMEcat however, it is not the relevant subgroups which are specified for each catalog group but rather the other way around: the parent group (element **PARENT_ID**) belonging to each catalog subgroup is specified instead. The complete hierarchical catalog group system can be built up in this way.

The order of **CATALOG_STRUCTURE** elements is irrelevant. Furthermore, not every branch of the catalog group system needs necessarily hang as low as all the others, i.e. the tree structure does not have to be balanced.

This element will not be used in the future.



General

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

Elements

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Catalog group system ID	GROUP_SYSTEM_ID	Optional	Single	Identification of the catalog group system The supplier must allocate a unique identification to his catalog group system.	-	dtSTRING	50	-	-
Catalog group system name	GROUP_SYSTEM_NAME	Optional	Single	Name of the catalog group system	-	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.
Catalog structure element	CATALOG_STRUCTURE - type	Mandatory	Multiple	Information on a catalog group	-	-	-	-	-
Group system description	GROUP_SYSTEM_DESCRIPTION	Optional	Single	Description of the catalog group system	-	dtML-STRING	250	Yes	-

Example

```

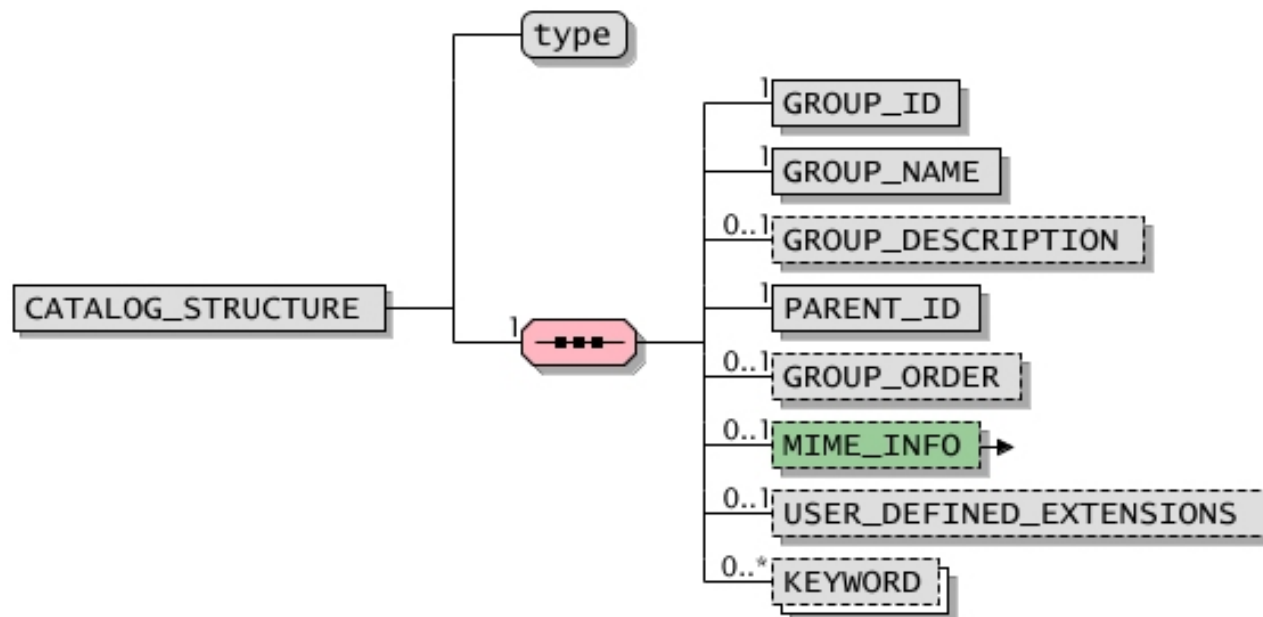
<CATALOG_GROUP_SYSTEM>
  <GROUP_SYSTEM_ID>OS2005/06</GROUP_SYSTEM_ID>
  <GROUP_SYSTEM_NAME>Office Supplies 2005/06</GROUP_SYSTEM_NAME>
  <CATALOG_STRUCTURE type="root">
    ...
  </CATALOG_STRUCTURE>
  <CATALOG_STRUCTURE type="node">
    ...
  </CATALOG_STRUCTURE>
  <CATALOG_STRUCTURE type="node">
    ...
  </CATALOG_STRUCTURE>
  <CATALOG_STRUCTURE type="leaf">
    ...
  </CATALOG_STRUCTURE>
  <CATALOG_STRUCTURE type="leaf">
    ...
  </CATALOG_STRUCTURE>
  <CATALOG_STRUCTURE type="leaf">
    ...
  </CATALOG_STRUCTURE>
  <CATALOG_STRUCTURE type="leaf">
    ...
  </CATALOG_STRUCTURE>
  <GROUP_SYSTEM_DESCRIPTION>Office Supplies Catalog 2005/06</GROUP_SYSTEM_DESCRIPTION>
</CATALOG_GROUP_SYSTEM>

```

CATALOG_STRUCTURE

(Catalog structure element)


This element serves the purpose of specifying a group within a catalog group system and linking the group into the hierarchical tree. This element will not be used in the future.



General

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

Attributes

Designation	Attribute name	Mandatory/ optional	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Catalog group type	type	Mandatory	<p>The "type" attribute specifies the position of the group within the catalog tree. The topmost group in the catalog structure is the only one on the top level and consequently has no parent. It forms the root from which all the other groups branch off and must therefore be the only CATALOG_STRUCTURE element to have the type "root". All groups with no children (on the bottom level), in other words all groups which are not referenced by any other groups, must have the type "leaf". All other groups, in other words those which have both parents and children, must be defined by the type "node".</p> <p></p> <p>2005fd: The maximum length has been extended from 4 characters to 20 characters.</p> <p>See also: Permitted values for attribute "type"</p>	-	dtSTRING	20	-	2005fd


Permitted values for attribute "type"

Designation	Attribute value	Explanation	l.chg. in ver.
Leave	leaf	The lowest hierarchical level in a branch of the catalog group system; products are only allowed to be attached to leaves.	-
Branch	node	A catalog group which only contains other subgroups and no individual products.	-
Root	root	The root of a catalog group system; all other groups and subgroups of the catalog group system branch off from this root. The root is only allowed to occur once within each catalog group system.	-

Elements

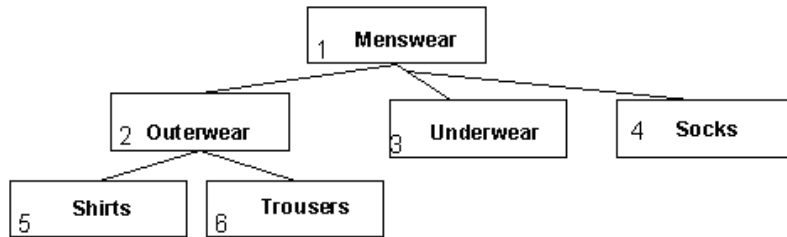
Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
Group ID	GROUP_ID	Mandatory	Single	The GROUP_ID is a unique designator which identifies the group. It is used to specify the parent-child relationship and to attach articles to the catalog group. The GROUP_ID in the topmost group (root) is "1". The GROUP_ID of all the other groups is freely selectable, whereby each GROUP_ID should only be assigned once.	-	dtSTRING	50	-	-
Group name	GROUP_NAME	Mandatory	Single	The name of the catalog group is displayed in the target system and allows users to search for and find the group. The name is usually the generic term for all the other groups and articles below it.	-	dtML-STRING	50	Yes	-
Group description	GROUP_DESCRIPTION	Optional	Single	This element can be used to describe the group in more detail.	-	dtML-STRING	250	Yes	-
Superordinate leven	PARENT_ID	Mandatory	Single	This element specifies the ID of the parent catalog group. The group on the top level (root) represents an exception here because it has no parent. Here 0 must be set.	-	dtSTRING	50	-	-
Catalog group order	GROUP_ORDER	Optional	Single	When catalog groups are listed they are always represented in ascending order (the first group is the one with the lowest number).	-	dtINTEGER	-	-	-

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 For example typical product illustrations or other group specific documents could be added here.	-	-	-	-	-
User-defined extensions	USER_DEFINED_EXTENSIONS in context CATALOG_STRUCTURE	Optional	Single	<p>This element can be used for transferring information in user-defined non-BMEcat-elements; hence it is possible to extend the pre-defined set of BMEcat-elements by user-defined ones. The usage of those elements results in BMEcat catalog 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 BMEcat 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>Example: usage of non-BMEcat elements (XML)</p> <pre> <CATALOG_STRUCTURE> <GROUP_ID>23</GROUP_ID> ... <USER_DEFINED_EXTENSIONS> <UDX.MYORG.CROSSPOINTER type="sparepart">27 </UDX.MYORG.CROSSPOINTER> <UDX.MYORG.CROSSPOINTER type="similar">31 </UDX.MYORG.CROSSPOINTER> </USER_DEFINED_EXTENSIONS> </CATALOG_STRUCTURE> </pre>	-	udxCATALOG-GROUP	-	-	-
Keyword	KEYWORD	Optional	Multiple	Keyword that supports product search in target systems	-	dtML-STRING	50	Yes	-

Example

The following example shows a catalog structure consisting of three levels. The boxes stand for the groups. The numbers inside the boxes are the **GROUP_IDs** of the groups. The lines represent the parent-child relationships.



The following **CATALOG_STRUCTUREs** must be entered in order to represent this catalog group system:

```

<CATALOG_GROUP_SYSTEM>
  <GROUP_SYSTEM_ID>HK-2005</GROUP_SYSTEM_ID>
  <GROUP_SYSTEM_NAME>Men's fashion</GROUP_SYSTEM_NAME>
  <CATALOG_STRUCTURE type="root">
    <GROUP_ID>1</GROUP_ID>
    <GROUP_NAME>Meanswear</GROUP_NAME>
    <PARENT_ID>0</PARENT_ID>
  </CATALOG_STRUCTURE>
  <CATALOG_STRUCTURE type="node">
    <GROUP_ID>2</GROUP_ID>
    <GROUP_NAME>Outerwear</GROUP_NAME>
    <GROUP_DESCRIPTION>Topwear fashion for men</GROUP_DESCRIPTION>
    <PARENT_ID>1</PARENT_ID>
    <MIME_INFO>
      <MIME>
        <MIME_TYPE>image/jpeg</MIME_TYPE>
        <MIME_SOURCE>hr_ober.jpg</MIME_SOURCE>
      </MIME>
    </MIME_INFO>
  </CATALOG_STRUCTURE>
  <CATALOG_STRUCTURE type="leaf">
    <GROUP_ID>3</GROUP_ID>
    <GROUP_NAME>Underwear</GROUP_NAME>
    <GROUP_DESCRIPTION>Underwear fashion for men</GROUP_DESCRIPTION>
    <PARENT_ID>1</PARENT_ID>
    <MIME_INFO>
      <MIME>
        <MIME_TYPE>image/jpeg</MIME_TYPE>
        <MIME_SOURCE>hr_unter.jpg</MIME_SOURCE>
      </MIME>
    </MIME_INFO>
  </CATALOG_STRUCTURE>
  <CATALOG_STRUCTURE type="leaf">
    <GROUP_ID>4</GROUP_ID>
    <GROUP_NAME>Socks</GROUP_NAME>
    <GROUP_DESCRIPTION>Socks and more</GROUP_DESCRIPTION>
    <PARENT_ID>1</PARENT_ID>
    <MIME_INFO>
  
```

```

    <MIME>
      <MIME_TYPE>image/jpeg</MIME_TYPE>
      <MIME_SOURCE>stinkl.jpg</MIME_SOURCE>
    </MIME>
  </MIME_INFO>
</CATALOG_STRUCTURE>
<CATALOG_STRUCTURE type="leaf">
  <GROUP_ID>5</GROUP_ID>
  <GROUP_NAME>Shirts</GROUP_NAME>
  <GROUP_DESCRIPTION>For business and leisure</GROUP_DESCRIPTION>
  <PARENT_ID>2</PARENT_ID>
  <MIME_INFO>
    <MIME>
      <MIME_TYPE>image/jpeg</MIME_TYPE>
      <MIME_SOURCE>charlie_und_dennis.jpg</MIME_SOURCE>
    </MIME>
  </MIME_INFO>
  <USER_DEFINED_EXTENSIONS>
    <UDX.UGE.LEVEL>4</UDX.UGE.LEVEL>
  </USER_DEFINED_EXTENSIONS>
  <KEYWORD>Short-sleeved shirts</KEYWORD>
  <KEYWORD>Beach shirts</KEYWORD>
</CATALOG_STRUCTURE>
<CATALOG_STRUCTURE type="leaf">
  <GROUP_ID>6</GROUP_ID>
  <GROUP_NAME>Trousers</GROUP_NAME>
  <GROUP_DESCRIPTION>For the man about town</GROUP_DESCRIPTION>
  <PARENT_ID>2</PARENT_ID>
  <MIME_INFO>
    <MIME>
      <MIME_TYPE>image/jpeg</MIME_TYPE>
      <MIME_SOURCE>tote_h.jpg</MIME_SOURCE>
    </MIME>
  </MIME_INFO>
</CATALOG_STRUCTURE>
</CATALOG_GROUP_SYSTEM>

```



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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  2005fd: 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  2005fd: This new data type replaces the following types: dtDATETYPE , dtTIMETYPE and dtTIMEZONETYPE 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><PRODUCT_DETAILS> <DESCRIPTION_SHORT lang="deu">Schraubendreher </DESCRIPTION_SHORT> <DESCRIPTION_SHORT lang="eng">Screw driver</DESCRIPTION_SHORT> </PRODUCT_DETAILS> ... <PRODUCT_DETAILS> <DESCRIPTION_SHORT>Bohrer</DESCRIPTION_SHORT> <DESCRIPTION_SHORT lang="eng">Drill</DESCRIPTION_SHORT> </PRODUCT_DETAILS></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>			-

Designation	Data type name	Explanation	Underlying standards	Format	l.chg. in ver.
Time	dtTIME	<p>Time</p>  <p>2005fd: New data type</p> <p>Example: 08:10:30</p>	<p>XML Schema Part 2: Data types Second Edition W3C Recommendation 28 October 2004 Datentyp time http://www.w3.org/TR/xmlschema-2/#time</p> <p>see also: ISO 8601: Representations of dates and times</p>	hh:mm:ss.sss	2005fd

Enumeration data types

Designation	Data type name	Explanation	Underlying standards	Format	l.chg. in ver.
Language codes	dtLANG	Language codes to indicate the language used in texts or pictures Example: deu (German)	ISO 639-2:1998 Language code [ISO-639-2:1998]	3 characters	-
Package unit codes	dtPUNIT	Package unit codes: this list contains the permitted package units Example: C62 (piece)	UN/ECE Recommendation 20 / Package Units http://www.unece.org/cefact/recommendations/rec_index.htm  The package unit codes have been defined in UN/ECE Recommendation 21 (Codes for types of cargo, packages and packaging materials), and the existing code entries in Recommendation 20 have been flagged for deletion. Due to compatibility, BMEcat 2005 sticks to the 3-letter-code of Recommendation 20. However, future versions of BMEcat may switch to Recommendation 21.	maximal 3 characters	1.2_fd
Units of measurement	dtUNIT	This data type is used to represent units of measurement such as m (Meter), kg (Kilogram) or km/h. However it does not contain the Package Units from the section dtPUNIT . Example: MTR (meter)	UN/ECE Recommendation 20 (all except "Package Units") http://www.unece.org/cefact/recommendations/rec_index.htm	maximal 3 characters	-

Special data types

Designation	Data type name	Explanation	Underlying standards	Format	l.chg. in ver.
Catalog group extension	udxCATALOG-GROUP	This data type is defined as empty; it serves for user-defined, thus non-BMEcat-elements for describing catalog groups.			-
Classification group extension	udxCSSGROUP	This data type is defined as empty; it serves for user-defined, thus non-BMEcat-elements for describing classification groups.			-

History of changes Version 2005fd

Change	Description of changes
ALLOWED_VALUE	This element has been extended by the following sub-elements: ALLOWED_VALUE_VERSION , ALLOWED_VALUE_SHORTNAME , ALLOWED_VALUE_SYNONYMS , ALLOWED_VALUE_SOURCE .
ALLOWED_VALUE_NAME	The maximum length has been extended from 60 characters to 80 characters.
ALLOWED_VALUE_SHORTNAME	New element
ALLOWED_VALUE_SOURCE	New element
ALLOWED_VALUE_SYNONYMS	New element
ALLOWED_VALUE_VERSION	New element
BALANCEDTREE	New element
CATALOG_STRUCTURE -->type	The maximum length has been extended from 4 characters to 20 characters.
CLASSIFICATION_GROUP	The element was revised and the following sub-elements were added CLASSIFICATION_GROUP_ID2 , CLASSIFICATION_GROUP_VERSION , CLASSIFICATION_GROUP_SHORTNAME , CLASSIFICATION_GROUP_SOURCE , CLASSIFICATION_GROUP_NOTE , CLASSIFICATION_GROUP_REMARK , CLASSIFICATION_GROUP_CONTACTS , CLASSIFICATION_GROUP_ORDER , MIME_INFO , CLASSIFICATION_GROUP_UDX
CLASSIFICATION_GROUP_CONTACTS	New element
CLASSIFICATION_GROUP_DESCR	The maximum length has been extended from 250 characters to 16,000 characters.
CLASSIFICATION_GROUP_FEATURE_TEMPLATE	The element was revised and the following sub-elements were added: FT_VALUES (in 2005fd FT_DOMAIN_VALUES), FT_VALENCY , FT_SYMBOL , MIME_INFO , FT_SOURCE , FT_NOTE , FT_REMARK
CLASSIFICATION_GROUP_ID -->type	New attribute
CLASSIFICATION_GROUP_ID2	New element
CLASSIFICATION_GROUP_NAME	The maximum length has been extended from 60 characters to 250 characters.
CLASSIFICATION_GROUP_NOTE	New element
CLASSIFICATION_GROUP_ORDER	New element
CLASSIFICATION_GROUP_REMARK	New element
CLASSIFICATION_GROUP_SHORTNAME	New element
CLASSIFICATION_GROUP_SOURCE	New element

Change	Description of changes
CLASSIFICATION_GROUP_UDX	New element
CLASSIFICATION_GROUP_VERSION	New element
CLASSIFICATION_GROUP -->level	The data type of this attribute has been changed from dtINTEGER to dtCOUNT in order to prevent negative hierarchy levels.
CLASSIFICATION_SYSTEM	The element was revised and the following sub-elements were added: CLASSIFICATION_SYSTEM_VERSION_DETAILS , CLASSIFICATION_SYSTEM_PARTY_IDREF , CLASSIFICATION_SYSTEM_TYPE
CLASSIFICATION_SYSTEM_DESCRIPTOR	The maximum length has been extended from 250 characters to 16,000 characters.
CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE	The element was revised and the following sub-elements were added: FT_SHORTNAME , FT_VERSION , FT_GROUPID , FT_GROUPNAME , FT_NAME , FEATURE_CONTENT
CLASSIFICATION_SYSTEM_FULLNAME	The maximum length has been extended from 60 characters to 80 characters.
CLASSIFICATION_SYSTEM_NAME	The maximum length has been extended from 20 characters to 80 characters.
CLASSIFICATION_SYSTEM_NAME =CPV-yyyy-mm-dd	New value
CLASSIFICATION_SYSTEM_NAME =EOTD-yyyy-mm-dd	New value
CLASSIFICATION_SYSTEM_NAME =GPC-x.y	New value
CLASSIFICATION_SYSTEM_NAME =PROFICLASS-x.y	New value
CLASSIFICATION_SYSTEM_NAME =RNTD-x.y	New value
CLASSIFICATION_SYSTEM_NAME =RUS-x.y	New value
CLASSIFICATION_SYSTEM_PARTY_IDREF	New element
CLASSIFICATION_SYSTEM_TYPE	New element
CLASSIFICATION_SYSTEM_VERSION_DETAILS	This element replaces with a modified semantics the former CLASSIFICATION_SYSTEM_VERSION element; it contains the following new sub-elements: VERSION , VERSION_DATE , REVISION , REVISION_DATE , ORIGINAL_DATE
CONFIG_CODE	New element
CONFIG_INFO	New element

Change	Description of changes
CONTACT_IDREF	New element
DEFAULT_FLAG	New element
dtCOUNT	New data type
dtDATETIME	This new data type replaces the following types: dtDATATYPE , dtTIMETYPE and dtTIMEZONETYPE
dtTIME	New data type
ENDVALUE	New element
FEATURE_CONTENT	New element
FT_DATATYPE =count	New value
FT_DATATYPE =date	New value
FT_DATATYPE =date-time	New value
FT_DATATYPE =float	New value
FT_DATATYPE =time	New value
FT_DESCR	The maximum length has been extended from 250 characters to 16,000 characters.
FT_FACET	New element
FT_FACETS	New element
FT_GROUP	New element
FT_GROUP_DESCR	New element
FT_GROUP_ID	New element
FT_GROUP_PARENT_ID	New element
FT_GROUPS	New element
FT_NAME	The maximum length has been extended from 60 characters to 80 characters.
FT_NOTE	New element
FT_REMARK	New element
FT_SHORTNAME	New element
FT_SOURCE	New element
FT_SYNONYMS	New element

Change	Description of changes
FT_UNIT	The maximum length has been extended from 20 characters to 80 characters.
FT_UNIT_IDREF	This new element replaces with a modified semantics the former FT_UNIT element.
FT_VALENCY	New element
FT_VALUE	New element
FT_VALUES	New element
FT_VERSION	New element
GROUPIX_HIERARCHY	New element
INHERITANCE	New element
INTERVALVALUE	New element
MAPPING_LEVEL	New element
MAPPING_TYPE	New element
MIME_ALT	The maximum length has been extended from 50 characters to 80 characters.
MIME_PURPOSE	The list of allowed values has been extended by 'icon' and 'safety_data_sheet'.
MIME_PURPOSE =icon	New value
MIME_PURPOSE =safety_data_sheet	New value
MIME_TYPE =application/xml	New value
ORIGINAL_DATE	New element
PARTY_IDREF	New element
PRODUCT_PRICE_DETAILS	This new element replaces with a modified semantics the ARTICLE_PRICE_DETAILS element; it has been extended by the following sub-elements: VALID_START_DATE , VALID_END_DATE
REVISION	New element
REVISION_DATE	New element
SOURCE_NAME	New element
SOURCE_URI	New element
STARTVALUE	New element
SYNONYM	The maximum length has been extended from 60 characters to 80 characters.

Change	Description of changes
UNIT	This element has been extended by the following sub-elements: UNIT_SHORTNAME , UNIT_CODE , UNIT_URI
UNIT_CODE	New element
UNIT_NAME	The maximum length has been extended from 60 characters to 80 characters.
UNIT_SHORTNAME	New element
UNIT_URI	New element
VALUE_IDREF	New element
VALUE_ORDER	New element
VALUE_RANGE	New element
VALUE_SIMPLE	New element
VALUE_TEXT	New element
VERSION	New element
VERSION_DATE	New element

History of changes Version 2005

Change	Description of changes
ALLOWED_VALUE_SOURCE	The sub-element SOURCE_DESCR was renamed to SOURCE_NAME .
CLASSIFICATION_GROUP	The attribute ' type ' is now optional.
CLASSIFICATION_GROUP_CONTACTS	The sub-element CONTACT_IDREF may occur more than once.
CLASSIFICATION_GROUP_FEATURE_TEMPLATE	The sub-element FT_DOMAIN_VALUES was renamed to FT_VALUES . The sub-element FT_UNIT_IDREF was added as an alternative to FT_UNIT . The sub-elements FT_MANDATORY and FT_DATATYPE were changed from mandatory elements to optional elements. The sub-element FT_DEPENDENCIES was added.
CLASSIFICATION_GROUP_SOURCE	The sub-element SOURCE_DESCR was renamed to SOURCE_NAME .
CLASSIFICATION_SYSTEM	The sub-element FT_GROUPS was added.
CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE	The sub-elements FT_GROUPID and FT_GROUPNAME were replaced by the new sub-elements FT_GROUP_IDREF and FT_GROUP_NAME respectively. The element itself was transformed into an XML-type. The sub-element FT_DEPENDENCIES was added.
CLASSIFICATION_SYSTEM_LEVEL_NAME	The maximum length has been extended from 60 characters to 80 characters.
CONTACT_IDREF	The maximum length has been extended from 50 characters to 60 characters.
FEATURE_CONTENT	The sub-element FT_DOMAIN_VALUES was renamed to FT_VALUES .
FT_DATATYPE =class_instance_type	New value
FT_DATATYPE =currency	New value
FT_DATATYPE =named_type	New value
FT_DEPENDENCIES	New element
FT_GROUP_IDREF	New element
FT_GROUP_NAME	New element
FT_SOURCE	The sub-element SOURCE_DESCR was renamed to SOURCE_NAME .
FT_VALUE	This element was named FT_DOMAIN_VALUE in BMEcat 2005 final draft, now it is named FT_VALUE .
FT_VALUES	This element was named FT_DOMAIN_VALUES and is now named FT_VALUES . The sub-element FT_DOMAIN_VALUE was renamed to FT_VALUE .
SOURCE_NAME	This element was named SOURCE_DESCR in Version 2005 final draft, now it is named SOURCE_NAME . The maximum length has been reduced from 250 characters to 80 characters.
UNIT_DESCR	The maximum length has been extended from 250 characters to 16000 characters.

Overview of elements - order by appearance

Amount	Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
1	_ CLASSIFICATION_SYSTEM	-	-	-	-	2005
1	_ SEQUENCE	-	-	-	-	-
1	_ CLASSIFICATION_SYSTEM_NAME	-	dtSTRING	80	-	2005fd
0..1	_ CLASSIFICATION_SYSTEM_FULLNAME	-	dtMLSTRING	80	Yes	2005fd
0..1	_ CHOICE	-	-	-	-	-
0..1	_ CLASSIFICATION_SYSTEM_VERSION_DETAILS	-	-	-	-	2005fd
1	_ SEQUENCE	-	-	-	-	-
1	_ VERSION	-	dtSTRING	20	-	2005fd
0..1	_ VERSION_DATE	-	dtDATETIME	-	-	2005fd
0..1	_ REVISION	-	dtSTRING	20	-	2005fd
0..1	_ REVISION_DATE	-	dtDATETIME	-	-	2005fd
0..1	_ ORIGINAL_DATE	-	dtDATETIME	-	-	2005fd
0..1	_ CLASSIFICATION_SYSTEM_VERSION	-	dtSTRING	20	-	-
0..1	_ CLASSIFICATION_SYSTEM_DESCR	-	dtMLSTRING	16000	Yes	2005fd
0..1	_ CLASSIFICATION_SYSTEM_PARTY_IDREF	-	dtSTRING	250	-	2005fd
0..1	_ CLASSIFICATION_SYSTEM_LEVELS	-	dtINTEGER	-	-	-
0..1	_ CLASSIFICATION_SYSTEM_LEVEL_NAMES	-	-	-	-	-
1	_ SEQUENCE	-	-	-	-	-
1..*	_ CLASSIFICATION_SYSTEM_LEVEL_NAME	-	dtMLSTRING	80	Yes	2005
0..1	_ CLASSIFICATION_SYSTEM_TYPE	-	-	-	-	2005fd
1	_ SEQUENCE	-	-	-	-	-
0..1	_ GROUPID_HIERARCHY	-	dtBOOLEAN	-	-	2005fd
0..1	_ MAPPING_TYPE	-	dtSTRING	20	-	2005fd
0..1	_ MAPPING_LEVEL	-	dtSTRING	20	-	2005fd
0..1	_ BALANCEDTREE	-	dtBOOLEAN	-	-	2005fd
0..1	_ INHERITANCE	-	dtBOOLEAN	-	-	2005fd
0..1	_ ALLOWED_VALUES	-	-	-	-	-
1	_ SEQUENCE	-	-	-	-	-
1..*	_ ALLOWED_VALUE	-	-	-	-	2005fd
1	_ SEQUENCE	-	-	-	-	-
1	_ ALLOWED_VALUE_ID	-	dtSTRING	60	-	-
1..1	_ ALLOWED_VALUE_NAME	-	dtMLSTRING	80	Yes	2005fd
0..1	_ ALLOWED_VALUE_VERSION	-	-	-	-	2005fd
1	_ SEQUENCE	-	-	-	-	-
1	_ VERSION	-	dtSTRING	20	-	2005fd
0..1	_ VERSION_DATE	-	dtDATETIME	-	-	2005fd
0..1	_ REVISION	-	dtSTRING	20	-	2005fd
0..1	_ REVISION_DATE	-	dtDATETIME	-	-	2005fd
0..1	_ ORIGINAL_DATE	-	dtDATETIME	-	-	2005fd
0..1	_ ALLOWED_VALUE_SHORTNAME	-	dtMLSTRING	80	Yes	2005fd
0..1	_ ALLOWED_VALUE_DESCR	-	dtMLSTRING	250	Yes	-
0..1	_ ALLOWED_VALUE_SYNONYMS	-	-	-	-	2005fd
1	_ SEQUENCE	-	-	-	-	-
1..*	_ SYNONYM	-	dtMLSTRING	80	Yes	2005fd
0..1	_ ALLOWED_VALUE_SOURCE	-	-	-	-	2005

Amount	Element name	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
1	_SEQUENCE	-	-	-	-	-
0..1	_SOURCE_NAME	-	dtMLSTRING	80	Yes	2005
0..1	_SOURCE_URI	-	dtSTRING	255	-	2005fd
0..1	_PARTY_IDREF	-	dtSTRING	250	-	2005fd
0..1	_UNITS	-	-	-	-	-
1	_SEQUENCE	-	-	-	-	-
1..*	_UNIT	-	-	-	-	2005fd
1	_SEQUENCE	-	-	-	-	-
1	_UNIT_ID	-	dtSTRING	60	-	-
0..1	_UNIT_NAME	-	dtMLSTRING	80	Yes	2005fd
0..1	_UNIT_SHORTNAME	-	dtMLSTRING	80	Yes	2005fd
0..1	_UNIT_DESCR	-	dtMLSTRING	16000	Yes	2005
0..1	_UNIT_CODE	-	dtSTRING	20	-	2005fd
0..1	_UNIT_URI	-	dtSTRING	255	-	2005fd
0..1	_FT_GROUPS	-	-	-	-	2005fd
1	_SEQUENCE	-	-	-	-	-
1..*	_FT_GROUP	-	-	-	-	2005fd
1	_SEQUENCE	-	-	-	-	-
1	_FT_GROUP_ID	-	dtSTRING	60	-	2005fd
0..1	_FT_GROUP_NAME	-	dtMLSTRING	80	Yes	2005
0..1	_FT_GROUP_DESCR	-	dtMLSTRING	250	Yes	2005fd
0..*	_FT_GROUP_PARENT_ID	-	dtSTRING	60	-	2005fd
0..1	_CLASSIFICATION_SYSTEM_FEATURE_TEMPLATES	-	-	-	-	-
1	_SEQUENCE	-	-	-	-	-
1..*	_CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE	-	-	-	-	2005
1	_SEQUENCE	-	-	-	-	-
1	_FT_ID	-	dtSTRING	60	-	-
1..1	_FT_NAME	-	dtMLSTRING	80	Yes	2005fd
0..1	_FT_SHORTNAME	-	dtMLSTRING	80	Yes	2005fd
0..1	_FT_DESCR	-	dtMLSTRING	16000	Yes	2005fd
0..1	_FT_VERSION	-	-	-	-	2005fd
1	_SEQUENCE	-	-	-	-	-
1	_VERSION	-	dtSTRING	20	-	2005fd
0..1	_VERSION_DATE	-	dtDATETIME	-	-	2005fd
0..1	_REVISION	-	dtSTRING	20	-	2005fd
0..1	_REVISION_DATE	-	dtDATETIME	-	-	2005fd
0..1	_ORIGINAL_DATE	-	dtDATETIME	-	-	2005fd
0..1	_CHOICE	-	-	-	-	-
0..1	_FT_GROUP_IDREF	-	dtSTRING	60	-	2005
0..1	_FT_GROUP_NAME	-	dtMLSTRING	80	Yes	2005
0..1	_FT_DEPENDENCIES	-	-	-	-	2005
1	_SEQUENCE	-	-	-	-	-
1..*	_FT_IDREF	-	dtSTRING	60	-	-
0..1	_FEATURE_CONTENT	-	-	-	-	2005
1	_SEQUENCE	-	-	-	-	-
1	_FT_DATATYPE	-	dtSTRING	20	-	-
0..1	_FT_FACETS	-	-	-	-	2005fd

Amount	Element name	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
1	_ SEQUENCE	-	-	-	-	-
1..4	_ FT_FACET	-	dtSTRING	20	-	2005fd
0..1	_ FT_VALUES	-	-	-	-	2005
1	_ SEQUENCE	-	-	-	-	-
1..*	_ FT_VALUE	-	-	-	-	2005
1	_ SEQUENCE	-	-	-	-	-
1	_ CHOICE	-	-	-	-	-
1	_ VALUE_IDREF	-	dtSTRING	60	-	2005fd
1	_ VALUE_SIMPLE	-	dtSTRING	80	-	2005fd
1	_ VALUE_TEXT	-	dtMLSTRING	80	Yes	2005fd
1	_ VALUE_RANGE	-	-	-	-	2005fd
1	_ SEQUENCE	-	-	-	-	-
1	_ STARTVALUE	-	dtNUMBER	-	-	2005fd
1	_ ENDVALUE	-	dtNUMBER	-	-	2005fd
0..1	_ INTERVALVALUE	-	dtNUMBER	-	-	2005fd
0..1	_ MIME_INFO	-	-	-	-	-
1	_ SEQUENCE	-	-	-	-	-
1..*	_ MIME	-	-	-	-	-
1	_ SEQUENCE	-	-	-	-	-
0..1	_ MIME_TYPE	-	dtSTRING	30	-	-
1..1	_ MIME_SOURCE	-	dtMLSTRING	255	Yes	-
0..1	_ MIME_DESCR	-	dtMLSTRING	250	Yes	-
0..1	_ MIME_ALT	-	dtMLSTRING	80	Yes	2005fd
0..1	_ MIME_PURPOSE	-	dtSTRING	20	-	2005fd
0..1	_ MIME_ORDER	-	dtINTEGER	-	-	-
0..1	_ CONFIG_INFO	-	-	-	-	2005fd
1	_ SEQUENCE	-	-	-	-	-
1	_ CONFIG_CODE	-	dtSTRING	50	-	2005fd
0..1	_ PRODUCT_PRICE_DETAILS	-	-	-	-	2005fd
0..1	_ VALUE_ORDER	-	dtINTEGER	-	-	2005fd
0..1	_ DEFAULT_FLAG	-	dtBOOLEAN	-	-	2005fd
0..1	_ FT_VALENCY	univalent	dtSTRING	20	-	2005fd
0..1	_ CHOICE	-	-	-	-	-
0..1	_ FT_UNIT_IDREF	-	dtSTRING	60	-	2005fd
0..1	_ FT_UNIT	-	dtSTRING	80	-	2005fd
0..1	_ FT_MANDATORY	-	dtBOOLEAN	-	-	-
0..1	_ FT_ORDER	-	dtINTEGER	-	-	-
0..1	_ FT_SYMBOL	-	dtMLSTRING	20	Yes	1.2
0..1	_ FT_SYNONYMS	-	-	-	-	2005fd
1	_ SEQUENCE	-	-	-	-	-
1..*	_ SYNONYM	-	dtMLSTRING	80	Yes	2005fd
0..1	_ MIME_INFO	-	-	-	-	-
1	_ SEQUENCE	-	-	-	-	-
1..*	_ MIME	-	-	-	-	-
1	_ SEQUENCE	-	-	-	-	-
0..1	_ MIME_TYPE	-	dtSTRING	30	-	-

Amount	Element name										Default value	Data type	Field length	Lang. specific	l.chg. in ver.
0..1											-	dtMLSTRING	80	Yes	2005fd
0..1											-	dtSTRING	20	-	2005fd
0..1											-	dtINTEGER	-	-	-
0..1											-	-	-	-	-
1											-	-	-	-	-
1..*											-	dtMLSTRING	80	Yes	2005fd
0..1											-	-	-	-	-
1											-	-	-	-	-
1..*											-	-	-	-	2005
1											-	-	-	-	-
1											-	dtSTRING	60	-	-
0..1											-	dtBOOLEAN	-	-	-
0..1											-	dtSTRING	20	-	-
0..1											-	-	-	-	-
0..1											-	dtSTRING	60	-	2005fd
0..1											-	dtSTRING	80	-	2005fd
0..1											-	dtINTEGER	-	-	-
0..1											-	-	-	-	-
0..1											-	-	-	-	-
1											-	-	-	-	-
1..*											-	dtSTRING	60	-	-
0..1											-	-	-	-	2005
1											-	-	-	-	-
1..*											-	-	-	-	2005
1											-	-	-	-	-
1											-	-	-	-	-
1											-	dtSTRING	60	-	2005fd
1											-	dtSTRING	80	-	2005fd
1											-	dtMLSTRING	80	Yes	2005fd
1											-	-	-	-	2005fd
1											-	-	-	-	-
1											-	dtNUMBER	-	-	2005fd
1											-	dtNUMBER	-	-	2005fd
0..1											-	dtNUMBER	-	-	2005fd
0..1											-	-	-	-	-
1											-	-	-	-	-
1..*											-	-	-	-	-
1											-	-	-	-	-
0..1											-	dtSTRING	30	-	-
1..1											-	dtMLSTRING	255	Yes	-
0..1											-	dtMLSTRING	250	Yes	-
0..1											-	dtMLSTRING	80	Yes	2005fd
0..1											-	dtSTRING	20	-	2005fd
0..1											-	dtINTEGER	-	-	-
0..1											-	-	-	-	2005fd
1											-	-	-	-	-
1											-	dtSTRING	50	-	2005fd

Amount	Element name	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
0..1	_ PRODUCT_PRICE_DETAILS	-	-	-	-	2005fd
0..1	_ VALUE_ORDER	-	dtINTEGER	-	-	2005fd
0..1	_ DEFAULT_FLAG	-	dtBOOLEAN	-	-	2005fd
0..1	FT_VALENCY	univalent	dtSTRING	20	-	2005fd
0..1	FT_SYMBOL	-	dtMLSTRING	20	Yes	1.2
0..1	FT_SYNONYMS	-	-	-	-	2005fd
1	SEQUENCE	-	-	-	-	-
1..*	SYNONYM	-	dtMLSTRING	80	Yes	2005fd
0..1	MIME_INFO	-	-	-	-	-
1	SEQUENCE	-	-	-	-	-
1..*	MIME	-	-	-	-	-
1	SEQUENCE	-	-	-	-	-
0..1	MIME_TYPE	-	dtSTRING	30	-	-
1..1	MIME_SOURCE	-	dtMLSTRING	255	Yes	-
0..1	MIME_DESCR	-	dtMLSTRING	250	Yes	-
0..1	MIME_ALT	-	dtMLSTRING	80	Yes	2005fd
0..1	MIME_PURPOSE	-	dtSTRING	20	-	2005fd
0..1	MIME_ORDER	-	dtINTEGER	-	-	-
0..1	FT_SOURCE	-	-	-	-	2005
1	SEQUENCE	-	-	-	-	-
0..1	SOURCE_NAME	-	dtMLSTRING	80	Yes	2005
0..1	SOURCE_URI	-	dtSTRING	255	-	2005fd
0..1	PARTY_IDREF	-	dtSTRING	250	-	2005fd
0..1	FT_NOTE	-	dtMLSTRING	16000	Yes	2005fd
0..1	FT_REMARK	-	dtMLSTRING	16000	Yes	2005fd
0..1	FT_DEPENDENCIES	-	-	-	-	2005
1	SEQUENCE	-	-	-	-	-
1..*	FT_IDREF	-	dtSTRING	60	-	-
0..1	CLASSIFICATION_GROUP_PARENT_ID	-	dtSTRING	60	-	-
0..1	CLASSIFICATION_GROUP_UDX	-	udxCSSGROUP	-	-	2005fd
1	CATALOG_GROUP_SYSTEM	-	-	-	-	-
1	_SEQUENCE	-	-	-	-	-
0..1	GROUP_SYSTEM_ID	-	dtSTRING	50	-	-
0..1	GROUP_SYSTEM_NAME	-	dtMLSTRING	50	Yes	-
1..*	CATALOG_STRUCTURE	-	-	-	-	-
1	_SEQUENCE	-	-	-	-	-
1	GROUP_ID	-	dtSTRING	50	-	-
1..1	GROUP_NAME	-	dtMLSTRING	50	Yes	-
0..1	GROUP_DESCRIPTION	-	dtMLSTRING	250	Yes	-
1	PARENT_ID	-	dtSTRING	50	-	-
0..1	GROUP_ORDER	-	dtINTEGER	-	-	-
0..1	MIME_INFO	-	-	-	-	-
1	_SEQUENCE	-	-	-	-	-
1..*	MIME	-	-	-	-	-
1	_SEQUENCE	-	-	-	-	-
0..1	MIME_TYPE	-	dtSTRING	30	-	-

Amount	Element name	Default value	Data type	Field length	Lang. specific	I.chg. in ver.
1..1	_ MIME_SOURCE	-	dtMLSTRING	255	Yes	-
0..1	_ MIME_DESCR	-	dtMLSTRING	250	Yes	-
0..1	_ MIME_ALT	-	dtMLSTRING	80	Yes	2005fd
0..1	_ MIME_PURPOSE	-	dtSTRING	20	-	2005fd
0..1	_ MIME_ORDER	-	dtINTEGER	-	-	-
0..1	_ USER_DEFINED_EXTENSIONSin context CATALOG_STRUCTURE	-	udxCATALOGGROUP	-	-	-
0..*	_ KEYWORD	-	dtMLSTRING	50	Yes	-
0..1	_ GROUP_SYSTEM_DESCRIPTION	-	dtMLSTRING	250	Yes	-

Overview of elements - alphabetical order

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ALLOWED_VALUE	-	-	-	-	2005fd
ALLOWED_VALUE_DESCR	-	dtMLSTRING	250	Yes	-
ALLOWED_VALUE_ID	-	dtSTRING	60	-	-
ALLOWED_VALUE_IDREF	-	dtSTRING	60	-	-
ALLOWED_VALUE_NAME	-	dtMLSTRING	80	Yes	2005fd
ALLOWED_VALUE_SHORTNAME	-	dtMLSTRING	80	Yes	2005fd
ALLOWED_VALUE_SOURCE	-	-	-	-	2005
ALLOWED_VALUE_SYNONYMS	-	-	-	-	2005fd
ALLOWED_VALUE_VERSION	-	-	-	-	2005fd
ALLOWED_VALUES	-	-	-	-	-
BALANCEDTREE	-	dtBOOLEAN	-	-	2005fd
CATALOG_GROUP_SYSTEM	-	-	-	-	-
CATALOG_STRUCTURE	-	-	-	-	-
CLASSIFICATION_GROUP	-	-	-	-	2005
CLASSIFICATION_GROUP_CONTACTS	-	-	-	-	2005
CLASSIFICATION_GROUP_DESCR	-	dtMLSTRING	16000	Yes	2005fd
CLASSIFICATION_GROUP_FEATURE_TEMPLATE	-	-	-	-	2005
CLASSIFICATION_GROUP_FEATURE_TEMPLATES	-	-	-	-	-
CLASSIFICATION_GROUP_ID	-	dtSTRING	60	-	-
CLASSIFICATION_GROUP_ID2	-	dtSTRING	60	-	2005fd
CLASSIFICATION_GROUP_NAME	-	dtMLSTRING	250	Yes	2005fd
CLASSIFICATION_GROUP_NOTE	-	dtMLSTRING	16000	Yes	2005fd
CLASSIFICATION_GROUP_ORDER	-	dtINTEGER	-	-	2005fd
CLASSIFICATION_GROUP_PARENT_ID	-	dtSTRING	60	-	-
CLASSIFICATION_GROUP_REMARK	-	dtMLSTRING	16000	Yes	2005fd

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
CLASSIFICATION_GROUP_SHORTNAME	-	dtMLSTRING	80	Yes	2005fd
CLASSIFICATION_GROUP_SOURCE	-	-	-	-	2005
CLASSIFICATION_GROUP_SYNONYMS	-	-	-	-	-
CLASSIFICATION_GROUP_UDX	-	udxCSSGROUP	-	-	2005fd
CLASSIFICATION_GROUP_VERSION	-	-	-	-	2005fd
CLASSIFICATION_GROUPS	-	-	-	-	-
CLASSIFICATION_SYSTEM	-	-	-	-	2005
CLASSIFICATION_SYSTEM_DESCR	-	dtMLSTRING	16000	Yes	2005fd
CLASSIFICATION_SYSTEM_FEATURE_TEMPLATE	-	-	-	-	2005
CLASSIFICATION_SYSTEM_FEATURE_TEMPLATES	-	-	-	-	-
CLASSIFICATION_SYSTEM_FULLNAME	-	dtMLSTRING	80	Yes	2005fd
CLASSIFICATION_SYSTEM_LEVEL_NAME	-	dtMLSTRING	80	Yes	2005
CLASSIFICATION_SYSTEM_LEVEL_NAMES	-	-	-	-	-
CLASSIFICATION_SYSTEM_LEVELS	-	dtINTEGER	-	-	-
CLASSIFICATION_SYSTEM_NAME	-	dtSTRING	80	-	2005fd
CLASSIFICATION_SYSTEM_PARTY_IDREF	-	dtSTRING	250	-	2005fd
CLASSIFICATION_SYSTEM_TYPE	-	-	-	-	2005fd
CLASSIFICATION_SYSTEM_VERSION	-	dtSTRING	20	-	-
CLASSIFICATION_SYSTEM_VERSION_DETAILS	-	-	-	-	2005fd
CONFIG_CODE	-	dtSTRING	50	-	2005fd
CONFIG_INFO	-	-	-	-	2005fd
CONTACT_IDREF	-	dtSTRING	60	-	2005
DEFAULT_FLAG	-	dtBOOLEAN	-	-	2005fd
ENDVALUE	-	dtNUMBER	-	-	2005fd
FEATURE_CONTENT	-	-	-	-	2005
FT_ALLOWED_VALUES	-	-	-	-	-

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
FT_DATATYPE	-	dtSTRING	20	-	-
FT_DEPENDENCIES	-	-	-	-	2005
FT_DESCR	-	dtMLSTRING	16000	Yes	2005fd
FT_FACET	-	dtSTRING	20	-	2005fd
FT_FACETS	-	-	-	-	2005fd
FT_GROUP	-	-	-	-	2005fd
FT_GROUP_DESCR	-	dtMLSTRING	250	Yes	2005fd
FT_GROUP_ID	-	dtSTRING	60	-	2005fd
FT_GROUP_IDREF	-	dtSTRING	60	-	2005
FT_GROUP_NAME	-	dtMLSTRING	80	Yes	2005
FT_GROUP_PARENT_ID	-	dtSTRING	60	-	2005fd
FT_GROUPS	-	-	-	-	2005fd
FT_ID	-	dtSTRING	60	-	-
FT_IDREF	-	dtSTRING	60	-	-
FT_MANDATORY	-	dtBOOLEAN	-	-	-
FT_NAME	-	dtMLSTRING	80	Yes	2005fd
FT_NOTE	-	dtMLSTRING	16000	Yes	2005fd
FT_ORDER	-	dtINTEGER	-	-	-
FT_REMARK	-	dtMLSTRING	16000	Yes	2005fd
FT_SHORTNAME	-	dtMLSTRING	80	Yes	2005fd
FT_SOURCE	-	-	-	-	2005
FT_SYMBOL	-	dtMLSTRING	20	Yes	1.2
FT_SYNONYMS	-	-	-	-	2005fd
FT_UNIT	-	dtSTRING	80	-	2005fd
FT_UNIT_IDREF	-	dtSTRING	60	-	2005fd

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
FT_VALENCY	univalent	dtSTRING	20	-	2005fd
FT_VALUE	-	-	-	-	2005
FT_VALUES	-	-	-	-	2005
FT_VERSION	-	-	-	-	2005fd
GROUP_DESCRIPTION	-	dtMLSTRING	250	Yes	-
GROUP_ID	-	dtSTRING	50	-	-
GROUP_NAME	-	dtMLSTRING	50	Yes	-
GROUP_ORDER	-	dtINTEGER	-	-	-
GROUP_SYSTEM_DESCRIPTION	-	dtMLSTRING	250	Yes	-
GROUP_SYSTEM_ID	-	dtSTRING	50	-	-
GROUP_SYSTEM_NAME	-	dtMLSTRING	50	Yes	-
GROUPID_HIERARCHY	-	dtBOOLEAN	-	-	2005fd
INHERITANCE	-	dtBOOLEAN	-	-	2005fd
INTERVALVALUE	-	dtNUMBER	-	-	2005fd
KEYWORD	-	dtMLSTRING	50	Yes	-
MAPPING_LEVEL	-	dtSTRING	20	-	2005fd
MAPPING_TYPE	-	dtSTRING	20	-	2005fd
MIME	-	-	-	-	-
MIME_ALT	-	dtMLSTRING	80	Yes	2005fd
MIME_DESCR	-	dtMLSTRING	250	Yes	-
MIME_INFO	-	-	-	-	-
MIME_ORDER	-	dtINTEGER	-	-	-
MIME_PURPOSE	-	dtSTRING	20	-	2005fd
MIME_SOURCE	-	dtMLSTRING	255	Yes	-
MIME_TYPE	-	dtSTRING	30	-	-

Element name	Default value	Data type	Field length	Lang. specific	l.chg. in ver.
ORIGINAL_DATE	-	dtDATETIME	-	-	2005fd
PARENT_ID	-	dtSTRING	50	-	-
PARTY_IDREF	-	dtSTRING	250	-	2005fd
PRODUCT_PRICE_DETAILS	-	-	-	-	2005fd
REVISION	-	dtSTRING	20	-	2005fd
REVISION_DATE	-	dtDATETIME	-	-	2005fd
SOURCE_NAME	-	dtMLSTRING	80	Yes	2005
SOURCE_URI	-	dtSTRING	255	-	2005fd
STARTVALUE	-	dtNUMBER	-	-	2005fd
SYNONYM	-	dtMLSTRING	80	Yes	2005fd
UNIT	-	-	-	-	2005fd
UNIT_CODE	-	dtSTRING	20	-	2005fd
UNIT_DESCR	-	dtMLSTRING	16000	Yes	2005
UNIT_ID	-	dtSTRING	60	-	-
UNIT_NAME	-	dtMLSTRING	80	Yes	2005fd
UNIT_SHORTNAME	-	dtMLSTRING	80	Yes	2005fd
UNIT_URI	-	dtSTRING	255	-	2005fd
UNITS	-	-	-	-	-
USER_DEFINED_EXTENSIONSin context CATALOG_STRUCTURE	-	udxCATALOGGROUP	-	-	-
VALUE_IDREF	-	dtSTRING	60	-	2005fd
VALUE_ORDER	-	dtINTEGER	-	-	2005fd
VALUE_RANGE	-	-	-	-	2005fd
VALUE_SIMPLE	-	dtSTRING	80	-	2005fd
VALUE_TEXT	-	dtMLSTRING	80	Yes	2005fd
VERSION	-	dtSTRING	20	-	2005fd
VERSION_DATE	-	dtDATETIME	-	-	2005fd