

Guideline for suppliers to provide product data according to BMEcat[®] Version 2005

**Version 4.0 – revision 4.0.2
ETIM International
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This is the Guideline for suppliers to provide product data, created and coordinated on the level of ETIM International.

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1. Providing product data

Due to the ever-increasing quantity of product data with constantly diminishing product lifecycles, the consideration and use of standards is an absolute necessity for providing and processing product information of high quality.

With progressing globalization, there is a growing requirement from all the participants of the trade chain for quality of information. Especially the supplier will meet these requirements by using standards, because all product information concerning the product will be provided in a unique way and structured uniformly. This information will be used by all those participating in all levels of trade so that the exchange of information in both directions is always based on the same original data and can provide customers with high-quality product data via different media – in printed catalogs or brochures, on CD-ROMs, as well as in eProcurement solutions and online shops.

To ensure that the standardized ETIM data is provided on a long term scale, ETIM International has created this guideline to provide electronic product data. For the integration of electronic product catalogs in the product master data the XML (Extensible Markup Language) based standard BMEcat® Version 2005 is being used.

Applied Standards:

- **BMEcat® Version 2005**

Website: <http://www.bmecat.org>

- **ETIM**

Website: <https://www.etim-international.com>

ETIM International

E-Mail: info@etim-international.com

- **The most recent version of the ETIM BMEcat Guideline for suppliers will always be available on the website, including the country specific regulations.**
<https://www.etim-international.com/downloads>

2. Supported transactions

Transactions determine which parts of a catalog will be transferred with the catalog document and how this data has to be processed in the target system.

In BMEcat three transactions are at hand (and a special ETIM transaction T_NEW_PRODUCTDATA):

- Transfer of a new catalog: T_NEW_CATALOG (which is supported by all data receivers).
Normally a data supplier delivers a ETIM BMEcat with all products that are distributed by the data receiver.
But if defined between the data supplier and the data receiver, it is also possible to deliver only a part of the respective product range, e.g. only the new products. All data of these (new) products has to be part of the BMEcat file, so it is also a T_NEW_CATALOG – only with a smaller number of products.

Whether the following additional transactions are accepted must be defined between the data supplier and the data receiver:

- Update of product data: T_UPDATE_PRODUCTS
- Update of price data: T_UPDATE_PRICES

The application of the update transactions permits the reduction of the volume of the documents to be transferred, since changes do not require the new transfer of the complete catalog.

With the transaction T_UPDATE_PRODUCTS it is possible to inform the data receiver about new, changed and deleted products. The fields are identical to a new catalog, in the catalog there are only products that have been changed, as well as those that are new or deleted. Most important is that each update has to be transmitted by the data supplier and also has to be imported by the data receiver. If one update is missing the following catalog is invalid! In this case it is necessary to transmit a T_NEW_CATALOG.

With the transaction T_UPDATE_PRICES it is possible to inform the data receiver about new prices. In this catalog there are only the fields for prices, but for all products that have been transmitted in the last catalog. In this file it is not possible to transmit any other changes. With this type it is also possible to transmit additional prices – for example “net_customer” price instead of transmitting this information by other means (e.g. by Excel file).

The versioning is important: the first update-catalog has the indication prev_version="0", the second one "1" and so on. This applies both to T_UPDATE_PRODUCTS and to T_UPDATE_PRICES.

With the new transaction T_NEW_PRODUCTDATA (added in version 4.0 of this Guideline), it is possible to supply the most important data for new products in an easy way. But this transaction is not defined by BMEcat but by ETIM International.

Important:

Each data supplier (manufacturer) usually should inform the data receiver with each transfer of a ETIM BMEcat, why a new file is delivered (new prices, new pictures, new products ...).

3. Requirements for supplier catalogs

a. File name

The name of the BMEcat-XML-file must be as following:

Short name of the supplier with generation date and file extension XML. Embodied spaces are to be replaced by underscoring. The date is to be specified in the format yyyy-mm-dd.

The length of the file name should not exceed 40 characters.

Especially for resellers it is necessary to add the name of the manufacturer or a trademark or “complete”; if there are updates it could be helpful to add “New” for a complete new catalog, “Update_Prices” or “Update_Products” at the end of the file name before the date.

Example: **Smith_Switches_New_2018-01-30.xml**

b. General guidelines for catalog content

Criteria are listed as following:

- Catalog data standard: BMEcat® Version 2005
- Classification standard: ETIM
- Language(s) of the catalog content: depending on the data receiver
- Currency: depending on the data receiver
- All fields of this Guideline should be filled when the requested data are available (e.g.: product reference to follow up, accessory or other product).
- Elements that are not part of this ETIM Guideline are not allowed in an ETIM BMEcat file!
- Recommended is the use of the UTF-8 character set
- Separator in all numeric fields is a „.“ (dot). For example: 124.90 and not 124,90. To use thousands separators is not allowed (e.g. 1250.90 and not 1,250.90).
- Guidelines regarding text fields (e.g. on formatting, character set, spelling, etc.) will be detailed per country in the specific country sections of this Guideline.

- A product update catalog includes only changed, new and deleted products. A price update catalog includes all products of the last catalog; no changes except the prices can be transmitted. If prices of some products are not changed it makes no difference.
- It is recommended to deliver URLs according to RFC1738, starting with http:// or https://
- The value for fields that are of type dtBOOLEAN can only be made by „true“ or „false“ (lowercase!).

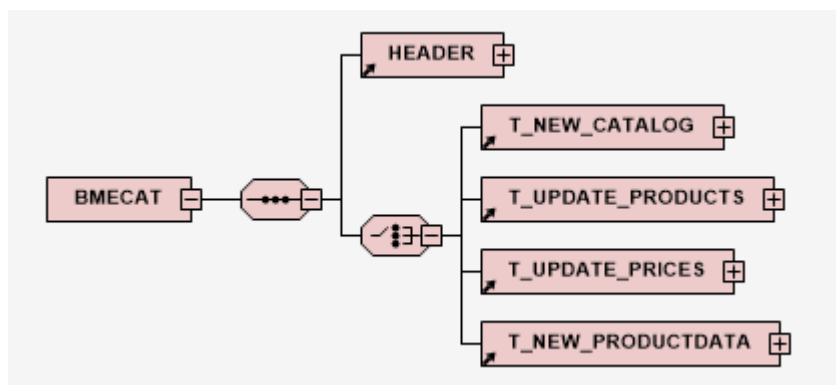
Important notice:

In the specification BMEcat® 2005 data fields are either “Mandatory” or “Optional”. In this ETIM Guideline, some optional fields of the original BMEcat specification BMEcat® 2005 are changed to mandatory. This will be marked as +Mandatory in this document (respectively +m in the corresponding Excel file <ETIM BMEcat Guideline V4-0-2 - Overview elements.xlsx>). Furthermore each optional element can be marked as mandatory on the level of an individual ETIM country.

4. Specification of the BMEcat parts

a. Root element and reference to the XSD schema

Every valid catalog document in BMEcat format starts with the root element BMECAT and consists of a header part (HEADER) and a transaction part (T_NEW_CATALOG, T_UPDATE_PRODUCTS or T_UPDATE_PRICES). As explained in chapter 2 and specified in chapter 4f, ETIM also allows for a transaction T_NEW_PRODUCTDATA.



BMECAT							
Designation	Attribute name	Mandatory/Optional	Single/Multiple	Explanation	Data type	Field length	Lang. specific
Version	version	Mandatory	Single	Specifies the version of the BMEcat standard to which the catalog document corresponds. Permitted value = "2005", catalog document corresponds to BMEcat 2005. Example: <BMECAT version="2005">	dtSTRING	250	-

The following reference to the XSD schema is mandatory:

```
<BMECAT xmlns="https://www.etim-international.com/bmecat/40"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="https://www.etim-
international.com/bmecat/40 https://www.etim-international.com/bmecat_etim_40.xsd" version="2005">
```

b. Instructions for header fields (HEADER)

In the catalog header (**HEADER**) the products themselves are not described, but information concerning the identification and the validity of the catalog, the catalog creator and receiver as well as the underlying framework agreement is transferred. Furthermore default values that are applicable for all contained products can be placed; e.g., language and currency. The catalog header is structured in the same way for all four possible transactions.

HEADER (Mandatory, Single)							
Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specific
Generator information	GENERATOR_INFO	Optional	Single	Information about the generator of the document, e.g. the used software or the name of a service provider.	dtSTRING	250	-
HEADER → CATALOG (Mandatory, Single)							
Language	LANGUAGE	Mandatory	Multiple	This element specifies the used languages (acc. ISO 639-2:1998), especially the default language of all language-dependent information. Mono-lingual catalogs: contains the used language; if the default-attribute is set, then it is not necessary to name the language in all ele-	dtLANG	3	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specific
				ments that contain language-dependent information; Multi-lingual catalogs: this element must be used to specify each language that occurs in the document, therefore the element appears more than once. If the default-attribute is set for the most frequently or always used language, then it is not necessary to name for all language-dependent information this language (default language); it is sufficient to mark information in other languages.			
Default flag (attribute)	default	Optional	Single	This element determines the default language of all language-dependent information in the document.	dtBOOLEAN		
Catalog ID	CATALOG_ID	Mandatory	Single	Unique catalog identification. This ID is usually assigned by the supplier when the catalog is generated and remains unchanged throughout the entire lifecycle of the catalog.	dtSTRING	20	-
Catalog version	CATALOG_VERSION	Mandatory	Single	Version number of the catalog. May only be reset on the target system in conjunction with a T_NEW_CATALOG transaction and not in the case of updates. Format: „MajorVersion“.“MinorVersion“, maximum however (xxx.yyy) (Ex-	dtSTRING	7	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specific
				ample: 7.1 or 001.001)			
Catalog name	CATALOG_NAME	+Mandatory	Single	Any name that describes the catalog. Example: Fall/Winter 2005/2006	dtMLSTRING	100	Yes
Datetime	DATETIME type="generation_date"	+Mandatory	Single	Time stamp, when the catalog document is generated. <u>Used value:</u> <Date> yyyy-mm-dd Example: 2015-07-01	dtDATE	10	-
Territory	TERRITORY	Optional	Multiple	Territory (i.e. country, state, region) coded according to ISO 3166.	dtCOUNTRIES	6	-
Currency	CURRENCY	Optional	Single	acc. ISO 4217:2001; Provides the currency that is default for all price information in the catalog. If the price of a product has a different currency, or this element is not used, the currency has to be specified in the PRICE_CURRENCY element for the respective product. Therefore, the currency must be specified in the catalog header or for each product separately. It is recommended to define a default currency.	dtCURRENCIES	3	-
MIME root directory	MIME_ROOT	Optional	Single	A relative directory can be entered here (and/or a URL), i.e. one which the relative paths in MIME_SOURCE refer to.	dtMLSTRING	250	Yes

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specific
HEADER → BUYER (+Mandatory, Single)							
ID of the buying company	BUYER_ID type="gln"	Optional	Single	GLN- Global Location Number of the buyer company	dtSTRING	250	-
ID of the buying company	BUYER_ID type="buyer_specific"	Optional	Single	Unique number of the buying company	dtSTRING	250	-
Name of the buyer	BUYER_NAME	Mandatory	Single	Name of the buying company or organization	dtSTRING	50	-
HEADER → SUPPLIER (Mandatory, Single)							
Supplier ID	SUPPLIER_ID type="duns"	Optional	Single	The D-U-N-S® number (Data Universal Numbering System - https://www.dnb.com) is a 9-digit numeric code to uniformly identify companies all over the world. It was developed and introduced by Dun & Bradstreet in 1962. The number has to be delivered without formatting.	dtSTRING	250	-
Supplier ID	SUPPLIER_ID type="gln"	Optional	Single	GLN- Global Location Number of the supplier (formerly known as ILN - International-Location-Number)	dtSTRING	250	-
Supplier name	SUPPLIER_NAME	Mandatory	Single	Name of the supplier	dtSTRING	50	-
HEADER → SUPPLIER → ADDRESS (Optional, Single)							
Address type	ADDRESS type="supplier"	+Mandatory	Single	Contains the address type	dtSTRING	20	-
Contact name	CONTACT	Optional	Single	Contains the name of the contact person	dtMLSTRING	50	Yes
Street	STREET	Optional	Single	Street name and house number	dtMLSTRING	50	Yes

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specific
Zip code	ZIP	Optional	Single	ZIP code of the address	dtMLSTRING	20	Yes
Town or city	CITY	Optional	Single	Town or city	dtMLSTRING	50	Yes
Country	COUNTRY	Optional	Single	Country, e.g. France	dtMLSTRING	50	Yes
VAT-ID	VAT_ID	Optional	Single	Value Added Tax Identification number of the supplier	dtSTRING	50	-
E-mail address	EMAIL	+Mandatory	Single	e-mail address	dtSTRING	255	-
Internet address	URL	Optional	Single	URL of the web site, e.g., http://www.bmecat.org	dtSTRING	255	-
HEADER → SUPPLIER → MIME_INFO (Optional, Single)							
HEADER → SUPPLIER → MIME_INFO → MIME (Mandatory, Multiple)							
Supplementary multimedia file with the logo of the supplier.							
Source	MIME_SOURCE	Mandatory	Single	see explanation in 5f	dtMLSTRING	255	Yes
Designation	MIME_DESCR	Optional	Single	see explanation in 5f	dtMLSTRING	250	Yes
Alternative text	MIME_ALT	Optional	Single	see explanation in 5f	dtMLSTRING	80	Yes
HEADER → USER_DEFINED_EXTENSIONS (+Mandatory, Single)							
User-defined extensions version	UDX.EDXF.VERSION	+Mandatory	Single	Version of the applied ETIM International BMEcat Guideline; EDXF = ETIM Data Exchange Format Field should be filled with "4.0" for this current version of the Guideline	dtSTRING	20	-

Example for the Header

```
<BMECAT xmlns="https://www.etim-international.com/bmecat/40" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="https://www.etim-international.com/bmecat/40 https://www.etim-international.com/bmecat_etim_40.xsd" version="2005">
  <HEADER>
    <GENERATOR_INFO>Classification Software Master 1a</GENERATOR_INFO>
    <CATALOG>
      <LANGUAGE default="true">dut</LANGUAGE>
      <CATALOG_ID>sample-7045839</CATALOG_ID>
      <CATALOG_VERSION>001.001</CATALOG_VERSION>
      <CATALOG_NAME>sample company-7045839</CATALOG_NAME>
      <DATETIME type="generation_date">
        <DATE>2018-01-30</DATE>
      </DATETIME>
      <TERRITORY>NL</TERRITORY>
      <CURRENCY>EUR</CURRENCY>
    </CATALOG>
    <BUYER>
      <BUYER_ID type="buyer_specific">sample buyer</BUYER_ID>
      <BUYER_NAME>Sample buyer name</BUYER_NAME>
    </BUYER>
    <SUPPLIER>
      <SUPPLIER_ID type="duns">316011725</SUPPLIER_ID>
      <SUPPLIER_ID type="gln">4012345000001</SUPPLIER_ID>
      <SUPPLIER_NAME>Sample company ltd.</SUPPLIER_NAME>
      <ADDRESS type="supplier">
        <CONTACT>Sample contact</CONTACT>
        <STREET>Sample road</STREET>
        <CITY>Sample city</CITY>
        <COUNTRY>NL</COUNTRY>
        <EMAIL>info@sample-company.nl</EMAIL>
        <URL>http://www.sample-company.nl</URL>
      </ADDRESS>
      <MIME_INFO>
        <MIME>
          <MIME_SOURCE>sample company_logo.jpg</MIME_SOURCE>
          <MIME_DESCR>MD18</MIME_DESCR>
        </MIME>
      </MIME_INFO>
    </SUPPLIER>
  </HEADER>
</BMECAT>
```

```
</MIME_INFO>
</SUPPLIER>
<USER_DEFINED_EXTENSIONS>
  <UDX.EDXF.VERSION>4.0</UDX.EDXF.VERSION>
</USER_DEFINED_EXTENSIONS>
</HEADER>
```

c. Transaction T_NEW_CATALOG

T_NEW_CATALOG (Mandatory, Single)							
Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
Product	PRODUCT in context T_NEW_CATALOG - mode	+Mandatory	Multiple	PRODUCT mode=new; if none exists „new“ is assumed	dtSTRING	20	-
T_NEW_CATALOG → PRODUCT (Mandatory, Multiple)							
The element PRODUCT contains the unique product number of the supplier and further sub elements for description, price, packing and multimedia supplementary information.							
Supplier's product ID	SUPPLIER_PID	Mandatory	Single	Contains the product number issued by the supplier. It is determining for ordering the product; it identifies the product in the supplier catalog.	dtSTRING	32	-
T_NEW_CATALOG → PRODUCT → PRODUCT_DETAILS (Mandatory, Single)							
Short descrip- tion	DESCRIPTION_SHORT	Mandatory	Single	Short, concise product description (or better max. 80 characters, see explana- tion 5a)	dtML- STRING	150	Yes
Long descrip- tion	DESCRIPTION_LONG	Optional	Single	Extensive and detailed product description (see explanation 5a)	dtML- STRING	64000	Yes
International product num- ber	INTERNATIONAL_PID type="gtin"	Optional	Single	Indicates the "Global Trade Item Number" GTIN	dtSTRING	100	-
Universal product code	INTERNATIONAL_PID type="upc"	Optional	Single	Indicates the "Universal Product Code" UPC	dtSTRING	100	-
Alternative product num- ber	SUPPLIER_ALT_PID	Optional	Single	Additional (internal) product identifier of the supplier if different to the SUPPLIER_PID	dtSTRING	50	-
Product ID of the buying company	BUYER_PID type="buyer_specific"	Optional	Single	Product number used by the buying com- pany	dtSTRING	50	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
Product ID of the manufacturer	MANUFACTURER_PID	Optional	Single	Product ID of the manufacturer (this PID can be the same as the SUPPLIER_PID)	dtSTRING	50	-
Name of manufacturer	MANUFACTURER_NAME	Optional	Single	Name of the manufacturer of the product	dtSTRING	50	-
Manufacturer type description	MANUFACTURER_TYPE_DESCR	Optional	Single	A name for the product which may, in certain circumstances be more widely-known than the correct product name.	dtML-STRING	50	Yes
Special treatment class	SPECIAL_TREATMENT_CLASS type=...	Optional	Multiple	Supplementary classification of a product for dangerous goods, hazardous substances, drugs precursors, radioactive measurement devices etc. Labelling, if the product requires a safety data sheet or not. As well the code for ECCN is transmitted; the attribute "type" sets the special treatment regulation; the value sets the class within the order. (see explanation 5i)	dtSTRING	20	-
Keyword	KEYWORD	Optional	Multiple	Keyword that makes it easier to find the product (see explanation 5b)	dtML-STRING	50	Yes
Remark	REMARKS	Optional	Multiple	Supplementary remarks of the supplier (e.g. "vertically stackable up to 8 units")	dtML-STRING	64000	Yes
Special product status	PRODUCT_STATUS type=...	Optional	Multiple	This element classifies a product in terms of its special characteristics. The status type is specified by the 'type' attribute. The value of the element reflects the text description of the special characteristics. If a product cannot be mapped to any of the predefined status types (listed below), „others“ must be used. This field is in connection with the field product expiration date (UDX.EDXF.EXPIRATION_DATE). If a product is a discontinued line with expiration date, the value „others“ will be set for the element PRODUCT_STATUS.	dtML-STRING	250	Yes

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				For the element UDX.EDXF.EXPIRATION_DATE the expiration date has to be indicated additionally. Among others, allowed combinations for ETIM are: <PRODUCT_STATUS type="others">discontinued</PRODUCT_STATUS> <PRODUCT_STATUS type="core_product">core_assortment</PRODUCT_STATUS> (e.g. household appliances)			
	<i>Bargain</i>	<i>type="bargain"</i>		<i>A bargain is a product offered at a special low price for a limited period of time.</i>			
	<i>Core assortment</i>	<i>type="core_product"</i>		<i>A product which belongs to the core assortment for a particular customer.</i>			
	<i>New</i>	<i>type="new"</i>		<i>A new product is a product which has only just been manufactured (i.e. has not been used).</i>			
	<i>New product</i>	<i>type="new_product"</i>		<i>The product has recently been added to the catalog.</i>			
	<i>Old product</i>	<i>type="old_product"</i>		<i>An old product is a product which can no longer be purchased but which is still displayed in the catalog, for example in order to refer to the follow-up product.</i>			
	<i>Refurbished</i>	<i>type="refurbished"</i>		<i>A refurbished product is a used product that has been specially processed in order to restore it to a condition close to its original condition.</i>			
	<i>Used</i>	<i>type="used"</i>		<i>A used product is a product which has already been in use.</i>			
	<i>Other status</i>	<i>type="others"</i>		<i>This status can be used if none of the predefined statuses adequately describe the product.</i>			

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
T_NEW_CATALOG → PRODUCT → PRODUCT_FEATURES (+Mandatory, Multiple)							
The element PRODUCT_FEATURES contains elements for the classification of products.							
Classification system	REFERENCE_FEATURE_SYSTEM_NAME	+Mandatory	Single	The indication is mandatory, notation like "ETIM-7.0" for official releases or "DYNAMIC" when using dynamic release	dtSTRING	80	-
Group reference	REFERENCE_FEATURE_GROUP_ID	+Mandatory	Single	Identification code of the ETIM class e.g. „EC001234“; if there is really no existing class in the used ETIM classification version, EC000000 is allowed exceptionally. But EC000000 is <u>not</u> part of the ETIM classification model! See explanation in chapter 5c.	dtSTRING	60	-
T_NEW_CATALOG → PRODUCT → PRODUCT_FEATURES → FEATURE (+Mandatory, Multiple)							
Feature name	FNAME	Mandatory	Single	Identification code of the ETIM feature e.g. „EF001234“	dtML-STRING	60	Yes
Feature value	FVALUE	Mandatory	Multiple	Defined feature values according to the ETIM classification: <ul style="list-style-type: none"> - Number value in case of numeric or range feature - Boolean value in case of logical feature ("true" or "false") - Identification code of the ETIM value, e.g. „EV001234“ in case of alphanumerical feature (see explanation 5c)	dtML-STRING	60	Yes
Feature Unit	FUNIT	Optional	Single	Unit of measurement of the feature; Standard units should be used; When transferring ETIM classification, the specification of units is not necessary (and usually not desired), because it is already	dtSTRING	20	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				fixed within the ETIM classification.			
Supplemen- tary details about the feature value	FVALUE_DETAILS	Optional	Single	<p><u>Usage a:</u> Explanation of the feature characteristics. A manufacturer specific color can be transmitted here: (polar white, magenta, ash-grey, ..., see explanation 5c)</p> <p><u>Usage b:</u> Explanation why a specific value will not be transmitted (see explanation 5c)</p>	dtML- STRING	250	Yes
T_NEW_CATALOG → PRODUCT → PRODUCT_ORDER_DETAILS (Mandatory, Single)							
Order unit	ORDER_UNIT	Mandatory	Single	<p>Unit in which the product can be ordered; it is only possible to order multiples of the product unit. For ETIM catalogs, the price also always refers to this unit (or to multiples of it). Example: Crate of mineral water with 6 bottles Order unit: "crate", content unit/unit of the article: "bottle" Packing quantity: "6"</p>	dtUNIT	3	-
Content of the unit	CONTENT_UNIT	Mandatory	Single	Unit of the product related to the order unit.	dtUNIT	3	-
Packing quantity	NO_CU_PER_OU	Optional	Single	Number of content units per order unit of the product. If order unit and content unit are identical, the value is always „1“	dtNUMBER	-	-
Price quantity	PRICE_QUANTITY	Optional	Single	<p>A multiple of the order unit indicating to which quantity all the specified prices refer to. The value is always integer for ETIM catalogs. General designation in the ETIM-environment: "price unit"</p>	dtINTEGER	-	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				(e.g. 1, 100, 1000)			
Minimum quantity	QUANTITY_MIN	Optional	Single	Minimum order quantity with respect to the order unit. The value should always be integer because of compatibility to the systems of the data receivers. This minimum order quantity (QUANTITY_MIN) is not the same to the minimum quantity in the sub tree of the packing units (UDX.EDXF.QUANTITY_MIN), even if the numerical value can be the same!	dtINTEGER	-	-
Quantity in- terval	QUANTITY_INTERVAL	Optional	Single	Number indicating the quantity steps in which the product can be ordered, e.g. »5« The value should furthermore be integer because of compatibility to the systems of the data receivers. This information doesn't have to be the same to the packing unit in the sub tree packing units, even if the numerical value can be the same!	dtINTEGER	-	-
T_NEW_CATALOG → PRODUCT → PRODUCT_PRICE_DETAILS (Mandatory, Multiple)							
The element PRODUCT_PRICE_DETAILS and its sub elements specify the price data.							
Datetime (Valid start date)	DATETIME type="valid_start_date"	+Mandatory	Single	Date for the start of the period of validity. <u>Used value:</u> <Date> yyyy-mm-dd	dtDATE	10	-
Datetime (Valid end date)	DATETIME type="valid_end_date"	Optional	Single	Date for the end of the period of validity. <u>Used value:</u> <Date> yyyy-mm-dd	dtDATE	10	-
Daily price	DAILY_PRICE	Optional	Single	Is used in the ETIM BMEcat to transmit, that a product has no fixed price (prices on request). In this case "true" has to be	dtBOOLE- AN	-	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				transmitted. If products have a fixed price this field is not required. See also 5e "Prices"			
T_NEW_CATALOG → PRODUCT → PRODUCT_PRICE_DETAILS → PRODUCT_PRICE (Mandatory, Multiple)							
Price type	PRODUCT_PRICE price_type=...	Mandatory	Single	Attribute, which specifies the type of price, e.g. See also 5e "Prices"	dtSTRING	20	-
	<i>List price</i>	<i>type=</i> <i>"net_list"</i>		<i>(Purchasing) list price excluding sales tax;</i> <i>discountable list (gross) price</i>			
	<i>Customer price</i>	<i>type=</i> <i>"net_custom</i> <i>er"</i>		<i>Customer-specific end price excluding</i> <i>sales tax; net purchase price without sales</i> <i>tax</i>			
	<i>Nonbinding recommended</i> <i>price</i>	<i>type=</i> <i>"nrp"</i>		<i>Nonbinding recommended (retail) price;</i> <i>suggested retail price incl. sales tax</i>			
Price amount	PRICE_AMOUNT	+Mandatory	Single	Amount of the price (0.00 is no valid price, except for products without list price, see explanation 5e)	dtNUMBER	-	-
Currency	PRICE_CURRENCY	Optional	Single	Currency of the price; If nothing is specified in this field, the currency defined in the document header (HEADER) in the element CURRENCY is used for all prices.	dtCUR- RENCIES	3	-
Tax rate	TAX	Optional	Single	Factor for tax applicable to this price »0.19« (is »19%«)	dtNUMBER	-	-
Price factor	PRICE_FACTOR	Optional	Single	The (discount) factor always multiplied by the price specified in this element in order to determine the end price.	dtNUMBER	-	-
Lower quantity limit	LOWER_BOUND	Optional	Single	Lower quantity limit for graduated prices. The unit for the graduated price limit is the order unit (ORDER_UNIT), default value = 1.	dtNUMBER	-	-
Territory	TERRITORY	Optional	Multiple	Territory in which the product price is valid. If not specified, the value from the ele-	dtCOUN- TRIES	6	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				ment TERRITORY of the HEADER is taken.			
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS (+Mandatory, Single)							
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.MIME_INFO (Optional, Single)							
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.MIME_INFO → UDX.EDXF.MIME (+Mandatory, Multiple)							
Source	UDX.EDXF.MIME_SOURCE	+Mandatory	Single	The relative path and the file name incl. the MIME type e.g. .jpg or URL address. The MIME_SOURCE string is combined with the base path (MIME_ROOT) in the HEADER (see explanation 5f).	dtML- STRING	512	Yes
Code	UDX.EDXF.MIME_CODE	+Mandatory	Single	Describes the kind and usage of the MIME document with a code (see explanation 5f).	dtSTRING	10	-
Filename	UDX.EDXF.MIME_FILENAME	Optional	Single	The filename of the MIME document (see explanation 5f).	dtML- STRING	250	-
Description	UDX.EDXF.MIME_DESIGNATION	Optional	Single	Detailed description of the MIME element (e.g. "rough sketch" for BIM elements)	dtML- STRING	250	Yes
Alternative text	UDX.EDXF.MIME_ALT	Optional	Single	Alternative text used if the file cannot be represented (e.g. by the browser) in the target system.	dtML- STRING	80	Yes
Issue date	UDX.EDXF.MIME_ISSUE_DATE	Optional	Single	Issue date of the MIME document.	dtDATE	10	-
Expiry date	UDX.EDXF.MIME_EXPIRY_DATE	Optional	Single	Expiry date of the MIME document.	dtDATE	10	-
Short name	UDX.EDXF.MANUFACTURER_ACRONYM	Optional	Single	Short name of the manufacturer	dtSTRING	10	-
Very short description	UDX.EDXF.DESCRPTION_VERY_SHORT	Optional	Single	Very short description of a product e.g. for ERP systems or invoices/delivery notes.	dtML- STRING	40	Yes

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Data type	Field length	Lang. specific
Brand name	UDX.EDXF.BRAND_NAME	Optional	Single	A brand name for a specific product, e.g. Supplier = "Master Company", Manufacturer = "Miller", Brand = "Brandy".	dtSTRING	50	-
Tender text	UDX.EDXF.TENDER_TEXT	Optional	Single	Tender text (a defined text for generating comparable competing offers from different bidders looking to obtain a business activity in works, supply, or service contracts).	dtML-STRING	64000	Yes
Validation date product	UDX.EDXF.VALID_FROM	Optional	Single	Date from when the product should become active. This is useful for central databases, where a supplier might submit the product in advance in order to allocate a branch product number. If the product is not tradable at the time of submission, this date indicates when the product is available for trade. Format: yyyy-mm-dd	dtDATE	10	-
Expiration date product	UDX.EDXF.EXPIRATION_DATE	Optional	Single	Is given when in the field PRODUCT_STATUS an expiration mark is delivered. Format : yyyy-mm-dd Example: 2015-10-24, which means, that this is the last day, the product can be ordered regularly.	dtDATE	10	-
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.DISCOUNT_GROUP (Optional, Single)							
Discount group of the manufacturer	UDX.EDXF.DISCOUNT_GROUP_MANUFACTURER	Optional	Single	Discount group key of the manufacturer. At least one group of the manufacturer or the supplier has to be specified; also both discount groups can be given. (A list of all included discount groups with factors and possibly descriptions has to be agreed separately.) If there is no fixed discount group (e.g. all	dtSTRING	20	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				products have the same discount): "no_discount_group" If there is no discount group for this prod- uct (net price): „net_price“			
Discount group of the supplier	UDX.EDXF.DISCOUNT_GROUP _SUPPLIER	Optional	Single	Discount group key of the supplier. At least one group of the supplier or the manufacturer has to be specified; also both discount groups can be given. (A list of all included discount groups with factors and possibly descriptions has to be agreed separately.) If there is no fixed discount group (e.g. all products have the same discount): "no_discount_group" If there is no discount group for this prod- uct (net price): „net_price“	dtSTRING	20	-
Bonus group of the supplier	UDX.EDXF.BONUS_GROUP_SU PPLIER	Optional	Single	Bonus group key of the supplier. If there is no fixed bonus group the value "no_bonus_group" should be used.	dtSTRING	20	-
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.ADDITIONAL_FACTORS (Optional, Single)							
Additional factor	UDX.EDXF.ADDITIONAL_PRICE _FACTOR	+Mandatory	Single	In many cases suppliers give more than one discount to their customers. e.g. 0.95; This element refers to the ele- ment "PRICE_FACTOR" in the subtree <T_NEW_CATALOG → PRODUCT → PRODUCT_PRICE_DETAILS → PRODUCT_PRICE>	dtNUMBER	-	-
Reason	UDX.EDXF.ADDITIONAL_ FACTOR_INFO	+Mandatory	Single	Textual information about the price factor.	dtML- STRING	150	Yes

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Data type	Field length	Lang. specific
Stock information	UDX.EDXF.PRODUCT_TO_STOCK	Optional	Single	Information if the product is defined as “produced to stock” from the manufacturer or “normally in stock” from a retailer – not the guarantee that the product is always in stock.	dtBOOLEAN	-	-
Product series	UDX.EDXF.PRODUCT_SERIES	Optional	Multiple	Indication to which product series, e.g. switch program(s) a product belongs (see explanation 5k).	dtML-STRING	50	Yes
Product variation	UDX.EDXF.PRODUCT_VARIATION	Optional	Multiple	Subtype of the product within the product series; e.g. series = “Golf”, variation = “GTI”	dtML-STRING	50	Yes
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.COUNTRY_BRANCH_NUMBERS (Optional, Single)							
Branch number	UDX.EDXF.COUNTRY_BRANCH_NUMBER type=... country=...	+Mandatory	Multiple	Country specific branch number. Many products are traded in several markets that have a central branch database. Some products could possibly exist in several branch databases in a single market. This element allows the supplier to provide one or more branch- and country specific product numbers. NOTE: Only one branch number may be supplied for each country and branch.	dtINTEGER	-	-
	<i>type</i>	+Mandatory	Single	<i>The industry to which the branch database number applies. Predefined values:</i> - <i>electrical</i> - <i>HVAC</i> - <i>building</i> - <i>shipbuilding</i>	<i>dtSTRING</i>	<i>20</i>	-
	<i>country</i>	+Mandatory	Single	<i>The country for which the branch number is intended.</i>	<i>dtCOUNTRIES</i>	<i>6</i>	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.COUNTRY_BRANCH_SUPPLIER_IDS (Optional, Single)							
Supplier ID	UDX.EDXF.COUNTRY_BRANCH_SUPPLIER_ID type=... country=...	+Mandatory	Multiple	Country and branch specific Supplier ID. Used in conjunction with UDX.EDXF.COUNTRY_BRANCH_NUMBER to transmit the branch specific supplier number. This number is issued by the central branch database.	dtINTEGER	-	-
	type	+Mandatory	Single	<i>The industry to which the Supplier ID applies.</i> <i>Predefined values:</i> - electrical - HVAC - building - shipbuilding	dtSTRING	20	-
	country	+Mandatory	Single	<i>The country for which the Supplier ID is intended.</i>	dtCOUNTRIES	6	-
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PACKING_UNITS (Optional, Single)							
Due to the fact that BMEcat® 2005 does not allow multiple appearances of sizes like volume, weight, length ... the sub tree is listed completely via UDX elements. The UDX sub tree PACKING_UNITS contains information about the different packing units. The sub element PACKING_UNIT can occur multiple. For each product at least the smallest regular PACKING_UNIT has to be indicated. The indication of all additional existing packing units is certainly important. Please be sure to observe the “Examples of packing variants” and the corresponding information in chapter 5j.							
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PACKING_UNITS → UDX.EDXF.PACKING_UNIT (+Mandatory, Multiple)							
Minimum quantity	UDX.EDXF.QUANTITY_MIN	+Mandatory	Single	Minimum quantity with respect to the order unit (ORDER_UNIT) , beginning with this order quantity, the respective packing unit is used.	dtFLOAT	-	-
Maximum quantity	UDX.EDXF.QUANTITY_MAX	Optional	Single	Maximum quantity with respect to the order unit (ORDER_UNIT) , up to this order quantity, the respective packing unit is used.	dtFLOAT	-	-

Designation	Element name	Mandatory/Optional	Single/Multiple	Explanation	Data type	Field length	Lang. specific
Packing unit code	UDX.EDXF.PACKING_UNIT_CODE	+Mandatory	Single	Code for the packing unit; has to be selected from the list of predefined values (see chapter 9).	dtPUNIT	3	-
Packing unit name	UDX.EDXF.PACKING_UNIT_NAME	Optional	Single	Name of the packing unit. In Norway, the following names are valid: f-pak, m-pak, d-pak, t-pak In Sweden, the following values are valid: Bas, Mellan, Topp	dtML-STRING	20	Yes
Package break	UDX.EDXF.PACKAGE_BREAK	Optional	Single	A flag indicating whether a package may be broken.	dtBOOLEAN	-	-
Packing parts	UDX.EDXF.PACKING_PARTS	Optional	Single	Number of packing parts in which a product will be delivered	dtINTEGER	-	-
Volume	UDX.EDXF.VOLUME	Optional	Single	Volume of the packing unit in cubic meters (m ³)	dtNUMBER	-	-
Gross weight	UDX.EDXF.WEIGHT	Optional	Single	Gross weight of the packing unit in kilogram (kg)	dtNUMBER	-	-
Length	UDX.EDXF.LENGTH	Optional	Single	Length of the packing unit in meters (m), normally the longest dimension	dtNUMBER	-	-
Width	UDX.EDXF.WIDTH	Optional	Single	Width of the packing unit in meters (m)	dtNUMBER	-	-
Depth	UDX.EDXF.DEPTH	Optional	Single	Depth of the packing unit in meters (m)	dtNUMBER	-	-
Diameter	UDX.EDXF.DIAMETER	Optional	Single	Diameter of the packing unit in meters (m)	dtNUMBER	-	-
GTIN code	UDX.EDXF.GTIN	Optional	Single	GTIN of packing unit	typeGTIN	14	-
GS1_128	UDX.EDXF.GS1_128	Optional	Single	GS1-128 is an application standard of the GS1 implementation using the Code 128 barcode specification. GS1-128 uses a series of Application Identifiers to include additional data such as best before dates, batch numbers, quantities, weights and many other attributes needed by the user.	dtSTRING	48	-
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PRODUCT_LOGISTIC_DETAILS (Optional, Single)							
Net volume	UDX.EDXF.NETVOLUME	Optional	Single	Net volume of the product in m ³ in reference to one ORDER_UNIT.	dtNUMBER	-	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
Net weight	UDX.EDXF.NETWEIGHT	Optional	Single	Net weight of the product in kilograms in reference to one ORDER_UNIT, e.g. cable duct per 1 m.	dtNUMBER	-	-
Net length	UDX.EDXF.NETLENGTH	Optional	Single	Net length (normally the longest dimension) of the product in meters in reference to one ORDER_UNIT.	dtNUMBER	-	-
Net width	UDX.EDXF.NETWIDTH	Optional	Single	Net width of the product in meters in reference to one ORDER_UNIT.	dtNUMBER	-	-
Net depth	UDX.EDXF.NETDEPTH	Optional	Single	Net depth of the product in meters in reference to one ORDER_UNIT.	dtNUMBER	-	-
Net diameter	UDX.EDXF.NETDIAMETER	Optional	Single	Net diameter of the product in meters in reference to one ORDER_UNIT.	dtNUMBER	-	-
Region of origin	UDX.EDXF.REGION_OF_ORIGIN	Optional	Single	Description of the region according to >>ISO-3166-2<< (Country Subdivision Codes). Region codes must be written in capital letters.	dtSTRING	10	-
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.REACH (Optional, Single)							
Date	UDX.EDXF.REACH.LISTDATE	Optional	Single	Date, on which the product was checked by the manufacturer for REACH Format: yyyy-mm-dd If "no data" is delivered in the following field UDX.EDXF.REACH.INFO the date of the catalog production has to be given here.	dtDATE	10	-
REACH info	UDX.EDXF.REACH.INFO	+Mandatory	Single	Indication, if the product contains a "SVHC = substance of very high concern" in a concentration of more than 0.1 mass percentage (referring to the candidates/substances that were published by ECHA at the previous given date). Possible values (lowercase!): - "true" contains substances > 0.1 mass per-	dtSTRING	7	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				centage - "false" does not contain substances >0.1 mass percentage - "no data" if REACH info is not yet available for a certain product If "true" is given, a deeplink to info is man- datory (see explanation 5h). The indication only refers to the check at the given date and explicitly does not indi- cate anything about products that were already delivered to the data receiver or about products that will be the delivered in the future (valid is always the indication on the delivery note)			
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.SURCHARGE_LIST (Optional, Single)							
The sub element UDX.EDXF.SURCHARGE_LIST specifies the transmission of surcharge data of a product (e.g. primary materials like copper, brass, WEEE-charge etc.). The surcharge data element can be given multiple times if a product contains several metals. The information about surcharges is country specific and must be defined in detail between a data supplier and a data receiver. Based on these surcharge rules, the necessary elements of the ETIM BMEcat have to be selected, including their combination. Please note the additional examples and further explanations that are listed below (and see chapter 5l).							
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.SURCHARGE_LIST → UDX.EDXF.SURCHARGE (+Mandatory, Multiple)							
Type of sur- charge	UDX.EDXF.SURCHARGE_TYPE	+Mandatory	Single	If possible, the suggested English values for this element must be used. If there is no value for a required type of surcharge, the data supplier is free to create his own value, preferably also in English. Suggested values for primary materials: - copper - MK copper (= processed copper) - aluminum	dtSTRING	20	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				<ul style="list-style-type: none"> - lead - silver - brass - gold - platinum <p>Suggested values for other surcharges:</p> <ul style="list-style-type: none"> - packaging - insurance - dearness - recycling - recycling WEEE - SLRS (recycling fee for luminaires, lamps etc.) - SENS (recycling fee for household appliances or similar) - SWICO (recycling fee for office equipment or similar) - INOBAT (battery recycling) - VOC (Volatile organic compounds) 			
Manner of surcharge	UDX.EDXF.SURCHARGE_MANNER	Optional	Single	<p>Manner of surcharge base / cumulated. Allowed values: „base“ or „cumulated“.</p> <p>„base“ is the value calculated by the PRODUCT_PRICE. „cumulated“ is suitable when an up- or down stroke is already made by an additional UDX.EDXF.SURCHARGE_LIST</p>	dtSTRING	9	-
Surcharge factor	UDX.EDXF.SURCHARGE_PERCENTAGE	Optional	Single	<p>On the product price, a percentage surcharge is calculated.</p> <p>Example: 0.05 (corresponds to 5%)</p> <p>This must not be given if material weight is specified.</p> <p>If a step size is specified either the surcharge factor or the surcharge price amount must be indicated.</p>	dtNUMBER	-	-
Surcharge	UDX.EDXF.SURCHARGE_PRICE	Optional	Single	On the product price, a surcharge price	dtNUMBER	-	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
price amount	E_AMOUNT			amount is calculated. Example: 0.02 (corresponds to 2 cents) This must not be given if material weight is specified. If a step size is specified either the surcharge price amount or the surcharge factor must be indicated.			
Type of calculation	UDX.EDXF.SURCHARGE_CALCULATION	Optional	Single	Describes if the surcharge that is indicated at UDX.EDXF.SURCHARGE_PERCENTAGE must be calculated on base of the gross list price (net_list) or the net price (net_customer respectively gross price ./ discount): 1 = gross price 2 = net price If no value is given, the gross price (1) will be assumed. This only has to be declared if UDX.EDXF.SURCHARGE_PERCENTAGE is given.	dtINTEGER	-	-
Material basis	UDX.EDXF.MATERIAL_BASIS	Optional	Single	Material basis must be specified for calculating primary material surcharges. This element is mandatory if a material basis is defined by the data supplier. An amount in €/100 kg, basic quotation of the primary material is already included in the price. Example: Flexible cable CU 150€/100kg Medium voltage power cable CU 1000€/100kg (respectively another currency depending on the country)	dtNUMBER	-	-
Material weight	UDX.EDXF.MATERIAL_BASIS_WEIGHT	Optional	Single	Material weight for the surcharge in gram/price reference quantity (PRICE_QUANTITY). This must not be given if step size is spec-	dtNUMBER	-	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				ified.			
Step size	UDX.EDXF.MATERIAL_BASIS_ SURCHARGE_THRESHOLD	Optional	Single	Step size as triggering moment for the calculation of the surcharge with surcharge factor or amount. This must not be given if material weight is specified. If this value is indicated, UDX.EDXF.SURCHARGE_ - PERCENTAGE or UDX.EDXF. - SURCHARGE_PRICE_AMOUNT must be specified.	dtNUMBER	-	-
Step trigger- ing	UDX.EDXF.MATERIAL_BASIS_ SURCHARGE_SHUTTER	Optional	Single	Description at which point the step is triggered: 1 = per started 2 = per finished if no value is indicated, finished step (2) will be assumed	dtINTEGER	-	-
Sur- charge/credit	UDX.EDXF.MATERIAL_BASIS_ SURCHARGE_CREDIT	Optional	Single	Describes if only a surcharge or a surcharge/credit takes place: 1 = only surcharge 2 = surcharge/credit if no value is indicated, surcharge (1) will be assumed	dtINTEGER	-	-
Sur- charge/table	UDX.EDXF.MATERIAL_BASIS_ SURCHARGE_TABLE	Optional	Single	Information about the reference to a surcharge table of a product	dtML- STRING	50	Yes
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PRODUCT_ETIM_DYNAMIC (Optional, Single)							
ETIM Release date	UDX.EDXF.PRODUCT_ETIM_RE LEASE_DATE	+Mandatory	Single	Date of the intermediate/dynamic ETIM release used to classify the products in this file. When this field is used, REFERENCE_FEATURE_SYSTEM_NAME should always be set to "DYNAMIC"	dtDATE	10	-
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PRODUCT_FEATURES_MC (Optional, Multiple)							

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
See format document of ETIM MC.							
ID of the ETIM MC	UDX.EDXF.REFERENCE_FEATURE_MC_ID	+Mandatory	Single	Identifier of the ETIM Modeling class.	dtSTRING	8	-
Version of the ETIM MC	UDX.EDXF.REFERENCE_FEATURE_MC_VERSION	+Mandatory	Single	Version of the ETIM Modeling class.	dtINTEGER	-	-
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PRODUCT_FEATURES_MC → UDX.EDXF.FEATURE_MC (+Mandatory, Multiple)							
Port code of the ETIM MC	UDX.EDXF.PORTCODE	+Mandatory	Single	Defines, to what connection the feature refers.	dtINTEGER	-	-
Feature ID of the ETIM MC	UDX.EDXF.FNAME	+Mandatory	Single	Identification code of the ETIM MC feature e.g. „EF001234“.	dtSTRING	60	-
Value ID of the ETIM MC	UDX.EDXF.FVALUE	Optional	Multiple	Defined feature values according to the ETIM MC classification.	dtSTRING	60	-
Coordinate x	UDX.EDXF.COORDINATE_X	Optional	Single	Coordinate x of a position or of a direction to be specified with +/- to the coordinate (axis) system.	dtFLOAT	-	-
Coordinate y	UDX.EDXF.COORDINATE_Y	Optional	Single	Coordinate y of a position or of a direction to be specified with +/- to the coordinate (axis) system.	dtFLOAT	-	-
Coordinate z	UDX.EDXF.COORDINATE_Z	Optional	Single	Coordinate z of a position or of a direction to be specified with +/- to the coordinate (axis) system.	dtFLOAT	-	-
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PRODUCT_FEATURES_MC → UDX.EDXF.FEATURE_MC → UDX.EDXF.MATRIX_VALUES (Optional, Single)							
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PRODUCT_FEATURES_MC → UDX.EDXF.FEATURE_MC → UDX.EDXF.MATRIX_VALUES → UDX.EDXF.MATRIX_VALUE (+Mandatory, Multiple)							
Matrix source value	UDX.EDXF.MATRIX_SOURCE_VALUE	+Mandatory	Single	Source value of a Matrix feature (type M).	dtFLOAT	-	-
Matrix result value	UDX.EDXF.MATRIX_RESULT_VALUE	+Mandatory	Single	Result value of a Matrix feature (type M).	dtFLOAT	-	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PRODUCT_CHARACTERISTICS (Optional, Single) See for a detailed explanation chapter 5m or the definition and chapter 11 for the content of the elements.							
T_NEW_CATALOG → PRODUCT → USER_DEFINED_EXTENSIONS → UDX.EDXF.PRODUCT_CHARACTERISTICS → UDX.EDXF.PRODUCT_CHARACTERISTIC (+Mandatory, Multiple)							
Product characteristic code	UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE	+Mandatory	Single	Code of the product characteristic; code starts with 2 letters for the country code, then underscore and then the real code defined by the specific country (e.g. PL_PKWIU)	dtSTRING	60	-
Product characteristic name	UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME	+Mandatory	Single	Name of the product characteristic.	dtML-STRING	255	Yes
You should only choose one of the value types per characteristic code (Boolean, Numeric, Range, String, Set, Select) and unit where relevant.							
PC value (type boolean)	UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN	Optional	Single	Value of the product characteristic, type boolean.	dtBOOLEAN	-	-
PC value (type numeric)	UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC	Optional	Single	Value of the product characteristic, type numeric.	dtFLOAT	-	-
PC value min. (type range)	UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_FROM	Optional	Single	Min. value of the product characteristic, type range.	dtFLOAT	-	-
PC value max. (type range)	UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_TO	Optional	Single	Max. value of the product characteristic, type range.	dtFLOAT	-	-
PC value (type string)	UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING	Optional	Single	Value of the product characteristic, type string.	dtML-STRING	4000	Yes
PC value (type set)	UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SET	Optional	Multiple	Value set of the product characteristic.	dtML-STRING	255	Yes
PC value (type select)	UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT	Optional	Single	Value selected from list given for the product characteristic.	dtSTRING	60	-
PC value unit	UDX.EDXF.PRODUCT_CHARACTERISTIC	Optional	Single	Value unit code of the product characteristic.	dtSTRING	3	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
code	TERISTIC_VALUE_UNIT_CODE			tic.			
PC value reference	UDX.EDXF.PRODUCT_CHARAC TERISTIC_REFERENCE_GTIN	Optional	Single	Indicates the “Global Trade Item Number” GTIN as a reference for the product char- acteristic.	typeGTIN	14	-
T_NEW_CATALOG → PRODUCT → PRODUCT_REFERENCE (Optional, Multiple)							
Reference type	PRODUCT_REFERENCE type=...	Mandatory	Single	Describes the relationship between the two products. For the permitted values for the attribute of PRODUCT_REFERENCE see chapter 5g.	dtSTRING	20	-
Quantity	PRODUCT_REFERENCE quantity=...	Optional	Single	Describes how many products are being referenced.	dtINTEGER	-	-
Reference product	PROD_ID_TO	Mandatory	Single	Unique number of the product to which a reference is made.	dtSTRING	80	-
Catalog ID	CATALOG_ID	Optional	Single	Unique catalog identification, if the refer- enced product is not listed in the same catalog.	dtSTRING	20	-
Catalog Ver- sion	CATALOG_VERSION	Optional	Single	Version number of the referenced product catalog. Format: „MajorVer- sion“.“MinorVersion“, maximum however xxx.yyy (Example: 7.1 or 001.001)	dtSTRING	7	-
Reference description	REFERENCE_DESCR	Optional	Single	Description of the reference.	dtML- STRING	250	Yes
T_NEW_CATALOG → PRODUCT → PRODUCT_LOGISTIC_DETAILS (Optional, Single)							
T_NEW_CATALOG → PRODUCT → PRODUCT_LOGISTIC_DETAILS → CUSTOMS_TARIFF_NUMBER (Optional, Multiple)							
Customs number	CUSTOMS_NUMBER	+Mandatory	Single	Product number for the index of goods of the foreign trade statistics. It matches with the first 8 digits of the code number of the customs tariff of the applicable trade item. Only current custom numbers are allowed (acc. to SOVA master file).	dtSTRING	60	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
Statistics factor	STATISTICS_FACTOR	Optional	Single	Factor that transforms the order unit into the unit of measurement that is necessary for the foreign trade statistics. In this example 3 m long pipes could be ordered (order unit = piece). The foreign trade statistics requires the unit meter; therefore, the factor is 3. Based on this factor and the order unit also calculation factors for different sales units can be derived.	dtNUMBER	-	-
Country of origin	COUNTRY_OF_ORIGIN	Optional	Multiple	Country codes according to >>ISO-3166-1<< e.g.: >>DE<< (for Germany) >>NL<< (for the Netherlands) Ensure the usage of capital letters. The indication >>CE<< (European Union) is not allowed.	dtCOUN- TRIES	6	-

d. Transaction T_UPDATE_PRODUCTS

This transaction updates product data. The transferred products are either added to/deleted from the target system or the complete product data record is replaced by a new one. A product identification indicates whether the product should be added, deleted or modified. The product is always replaced completely; it is not possible to change individual data fields of a product.

The transferred CATALOG_ID of the relevant supplier (SUPPLIER_NAME) and the CATALOG_VERSION to which it belongs must already be present in the target system. The attribute "T_UPDATE_PRODUCTS -->prev_version" must be set to 0 with the first transaction type after T_NEW_CATALOG. Eventually, it is increased by 1 with each transaction of this sort.

Elements

T_UPDATE_PRODUCTS (Mandatory, Single)							
Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
Transaction	T_UPDATE_PRODUCTS – prev_version	Mandatory	Single	This attribute contains the number of previous updates or the number of the transferred updates (not the last version number). Counting begins at 0 after each T_NEW_CATALOG within the same version.	-	-	-
T_UPDATE_PRODUCTS → PRODUCT (Mandatory, Multiple)							
Product	PRODUCT in context T_UPDATE_PRODUCTS - mode	Mandatory	Multiple	Information about a product. Determines how the transferred data should be processed by the target system. Permitted values: - delete (The product will be deleted in the target system. All other data transferred with the product will be ignored.) - new (The product does not exist in the target system and will be inserted.)	-	-	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
				- update (The product already exists in the target system. The data fields will be completely replaced. Updating single data fields is not possible.)			
The element PRODUCT contains the unique product number of the supplier and further sub elements for description, price, packing and multimedia supplementary information.							
Supplier's product ID	SUPPLIER_PID	Mandatory	Single	Contains the product number issued by the supplier. It is determining for ordering the product; it identifies the product in the supplier catalog.	dtSTRING	32	-
T_UPDATE_PRODUCTS → PRODUCT → PRODUCT_DETAILS (Mandatory, Single)							
T_UPDATE_PRODUCTS → PRODUCT → PRODUCT_FEATURES (Optional, Multiple)							
T_UPDATE_PRODUCTS → PRODUCT → PRODUCT_ORDER_DETAILS (Mandatory, Single)							
T_UPDATE_PRODUCTS → PRODUCT → PRODUCT_PRICE_DETAILS (Mandatory, Multiple)							
T_UPDATE_PRODUCTS → PRODUCT → USER_DEFINED_EXTENSIONS (Optional, Single)							
T_UPDATE_PRODUCTS → PRODUCT → PRODUCT_REFERENCE (Optional, Multiple)							
T_UPDATE_PRODUCTS → PRODUCT → PRODUCT_LOGISTIC_DETAILS (Optional, Single)							

If the transfer mode for the T_UPDATE_PRODUCTS transaction is set in unauthorized manner, the following procedure is recommended:

- Mode new: Product already exists in the target system → Error, do not import, product remains unchanged in the target system
- Mode update: Product does not exist in the target system → Warning
- Mode delete: Product does not exist in the target system → Warning

e. Transaction T_UPDATE_PRICES

This transaction transfers new price information on products to the target system. All prices on the corresponding products already in the target system are deleted and replaced with the new prices. Essentially, the transaction consists of the **SUPPLIER_PID** and **PRODUCT_PRICE_DETAILS** elements.

Elements

T_UPDATE_PRICES (Mandatory, Single)							
Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
Transaction	T_UPDATE_PRICES – previous version	Mandatory	Single	This attribute contains the number of previous updates or the number of the transferred updates (not the last version number). Counting begins at 0 after each T_NEW_CATALOG within the same version.	-	-	-
The element PRODUCT contains the unique product number of the supplier and further sub elements for prices.							
Supplier's product ID	SUPPLIER_PID	Mandatory	Single	Contains the product number issued by the supplier. It is determining for ordering the product; it identifies the product in the supplier catalog.	dtSTRING	32	-
T_UPDATE_PRICES → PRODUCT (Mandatory, Multiple)							
Product	PRODUCT in context T_UPDATE_PRICES - mode	Mandatory	Multiple	Information about a product. Determines how the transferred data should be processed by the target system (insert, update, delete); In the transaction T_UPDATE_PRICES, determine the transfer mode is not necessary, otherwise it is always 'update'.	-	-	-

Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
T_UPDATE_PRICES → PRODUCT → PRODUCT_PRICE_DETAILS (Mandatory, Multiple)							
T_UPDATE_PRICES → PRODUCT → USER_DEFINED_EXTENSIONS (Optional, Single)							

f. Transaction T_NEW_PRODUCTDATA

With this transaction subsets of product data can be delivered in an easy and fast way (only the most important data for importing a product in a database without pricing and logistics data). Additional data will be delivered in another step.

In consequence of skipping elements that are defined as mandatory in the Specification BMEcat® 2005, the transaction T_NEW_PRODUCTDATA leads to a data file that is not 100% conform to the BMEcat specification. This is well known and accepted by ETIM International to make it easy to transfer product data in an early stage.

Elements

T_NEW_PRODUCTDATA (Mandatory, Single)							
Designation	Element name	Mandatory/ Optional	Single/ Multiple	Explanation	Data type	Field length	Lang. specif- ic
Product	PRODUCT in context T_NEW_PRODUCTDATA	+Mandatory	Multiple	PRODUCT mode=new; if none exists „new“ is assumed	dtSTRING	20	-
All the elements that are used in the transaction T_NEW_PRODUCTDATA are defined in the Excel file “ETIM BMEcat Guideline V4-0-2 - Overview elements” (incl. the definition if an element or a subtree is optional or mandatory).							

5. Explanation

a. Product description

The short description (DESCRIPTION_SHORT) describes the product short and concise, to recognize its kind and function among a large quantity of products - preferably unambiguous. It is not used to uniquely characterize it technically or highlight it among similar products. Unclear abbreviations or codes should be avoided.

BMEcat® 2005 allows 150 characters here (versus max. 80 characters in BMEcat 1.2). If a data supplier wants to provide more than 80 characters, it should be noticed that the text might be automatically cut off by the data receiver after 80 characters (depending on the data receiver's requirements of the target system also less than 80 characters are processed).

Examples for desired short descriptions:

Surge arrester 1-pole 180 V AC

Junction box S-Color grey

Feed-through terminal block 2.5 mm² blue

Examples for undesired short descriptions:

- Junct. box. gr. S-Color

- Leakage-circuit breaker F374-25/0.03/400Hz

- Normline HV150

The long description (DESCRIPTION_LONG) is used to give a marketing presentation in a manner that cannot be made by using the structured data delivered in the BMEcat. In this element it is also possible to communicate manufacturer specific benefits of a product.

Example for a desired long description:

Automatic luminaire with integrated movement sensor and 200° detection range, 360° creep-under protection for a gap free detection, weather-proof, painted surface, glass with semi-gloss optic, additional switching output for the connection of further luminaries, covered connection socket with large wiring space, double pipe-in lead for an easy and fast assembly, adjustment of the detection range by rotating lens and electronic calibration.

For the text fields that are used in the ETIM BMEcat the given targets in no. 3b of this guideline (General guidelines for catalog content) must be strictly observed!

b. Keywords

Keywords (also search term or synonym) are alternative terms for the short description and are used to find products easier in electronic search systems. The data receivers expect here short and concise terms that are commonly used by the customers to designate exactly the single product. They can be supplied in singular and/or plural form. It is not allowed to transmit the short description (DESCRIPTION_SHORT) here again. Manufacturer specific terms that are well known in the market are permitted here. It is desired that several keywords (if possible) per product are supplied in separated tags. Punctuation marks should not be used in the tags. Keywords should consist of one word, sentence constructions are not allowed.

It is not desired to transmit the ETIM class synonyms here again as manufacturer specific product keywords. If individual ETIM class synonyms match to the particular product, they can be used nevertheless in the BMEcat. Important is, that the keywords specified per product are suitable to the particular product (the keyword "Combination pliers" would be not correct for the product "Grip pliers").

Examples for desired keywords:

Cross switch
Bulb
Dulux-Lamp
Levelled pipe wrench

Examples for undesired keywords:

EIB, lamps
EV-240
Aurora-Line
Tongs for treating thick-walled corrugated steel conduit

c. Classification und features

Using the element `PRODUCT_FEATURES` a product is classified, i.e. assigned to a group in various classification or feature group systems (in our case e.g. ETIM version 7.0). Furthermore in the element `PRODUCT_FEATURES` features of a product are specified. Features are data objects that can be used to describe characteristics of a product like color, nominal voltage, type of socket etc. These features are determined partially by so-called feature lists by the referenced classification and feature group system. In this case, the elements `FEATURE` is embedded in the corresponding element `PRODUCT_FEATURES` of the related classification and feature group system. In addition to the rules specified in the BMEcat® Version 2005, the following tightening is made for the transmission of the ETIM product classification.

ETIM Tightening/explanation:

If a product is assigned to an ETIM class, all attributed features of this class have to be transmitted in the BMEcat file. If a value cannot be assigned (e.g. diameter of a rectangular product), the minus sign “-“ must be delivered.

If a minus sign “-“ is chosen, the data supplier has the opportunity to specify the reason in the element `FVALUE_DETAILS` as following:

- NA – Not applicable (this feature is not applicable in the context of a product in this class)
- MV – Missing value (an alphanumeric feature is relevant, but no correct value exists in this ETIM version)
- UN – Unknown (currently, the data supplier is not able to deliver a specific value; but basically it is possible)

This applies to all feature types of the ETIM data model:

- A – Alphanumeric
- N – Numeric
- R – Range
- L – Logic

Please note that if you would use the non-existing 'dummy' class code EC000000 if no fitting ETIM class is available, the feature subtree is still mandatory, so an error will be reported if this subtree is not included. If you use EC000000, you have to include the feature subtree once, using the minus sign "-" for FNAME and FVALUE as illustrated in the example below.

```
<PRODUCT_DETAILS>
<PRODUCT_FEATURES>
  <REFERENCE_FEATURE_SYSTEM_NAME>ETIM-7.0</REFERENCE_FEATURE_SYSTEM_NAME>
  <REFERENCE_FEATURE_GROUP_ID>EC000000</REFERENCE_FEATURE_GROUP_ID>
  <FEATURE>
    <FNAME>-</FNAME>
    <FVALUE>-</FVALUE>
  </FEATURE>
</PRODUCT_FEATURES>
```

Indication of manufacturer specific colors in the ETIM BMEcat:

With the field FVALUE_DETAILS, more precise information on the color of a product defined in the ETIM model can be made available if necessary and useful. Especially in the product range of Domestic switching devices, Luminaries, Cable ducts or Small household appliances the indication is important and should be transmitted by the manufacturer in the ETIM BMEcat. So here are meant all alphanumeric features in ETIM that have the word "colour" (or "color") in their names.

e.g. Color of a cover frame for domestic switching devices

```
<FEATURE>
<FNAME>EF000007</FNAME>
<FVALUE>EV000080</FVALUE>
<FVALUE_DETAILS>azure blue</FVALUE_DETAILS>
</FEATURE>
```

EF000007 = „Colour“

EV000080 = „Blue“

The indication of logical features can only be made by „true“ or „false“; „yes“ and „no“ are not permitted.

The feature type „Range“ requires two numeric values that limit a range (interval) of values. The ETIM range feature is considered to be a closed range, so an interval which includes all its limit points, mathematically denoted as [a..b]. With range fields, two tags for the both values should be given in accordance to the BMEcat specification:

<FVALUE>-15</FVALUE>

<FVALUE>100</FVALUE>,

the presentment

<FVALUE>-15 to 100</FVALUE> or

<FVALUE>-15 - 100</FVALUE>

is incorrect.

If both values are identical, they are also indicated in two separate tags.

e.g. frequency 50 Hz fix:

<FVALUE>50</FVALUE>

<FVALUE>50</FVALUE>

It is recommended to sort the 2 range values within the BMEcat file (if different). The lower value should be delivered first.

The feature type „Alphanumeric“ defines a feature for which a value list exists in the ETIM model, which is predefined per class. Only the indication of codes that are part of this particular ETIM list are allowed (e.g. „EV000123“), the indication of free text is not possible here.

Recommendation for set articles:

For set articles consisting of a number of individual articles and therefore not clearly related to an ETIM-class, the set can be assigned to the class of the main article (reasonably the manufacturer of the set article takes this decision).

Except for the classification according to ETIM, in principal other classifications can be transferred in a BMEcat in addition (e.g. eCI@ss, Proficl@ss, UNSPSC, company specific classifications).

d. Order

The element `PRODUCT_ORDER_DETAILS` contains elements that indicate details of the order conditions and packing modalities. At the moment, order information in the BMEcat can only be transferred clearly and safe by the fields `ORDER_UNIT` and `PRICE_QUANTITY` in the way described below.

Examples

Spray tin 200ml (billing per tin)

```
<ORDER_UNIT>TN</ORDER_UNIT>
<CONTENT_UNIT>MLT</CONTENT_UNIT>
<NO_CU_PER_OU>200</NO_CU_PER_OU>
<PRICE_QUANTITY>1</PRICE_QUANTITY>
<QUANTITY_MIN>6</QUANTITY_MIN>
<QUANTITY_INTERVAL>6</QUANTITY_INTERVAL>

<PRICE_AMOUNT>1.90</PRICE_AMOUNT>
```

Cable tray (billing per meter)

```
<ORDER_UNIT>MTR</ORDER_UNIT>
<CONTENT_UNIT>MTR</CONTENT_UNIT>
<NO_CU_PER_OU>1</NO_CU_PER_OU>
<PRICE_QUANTITY>1</PRICE_QUANTITY>
<QUANTITY_MIN>3</QUANTITY_MIN>
<QUANTITY_INTERVAL>3</QUANTITY_INTERVAL>

<PRICE_AMOUNT>21.90</PRICE_AMOUNT>
```

Mignon alkaline battery

(billing per blister; the unit “blister” is not part of the ECE list and so cannot be used independently, for this reason, the unit PA = packet must be used)

```
<ORDER_UNIT>PA</ORDER_UNIT>
<CONTENT_UNIT>C62</CONTENT_UNIT>
<NO_CU_PER_OU>4</NO_CU_PER_OU>
<PRICE_QUANTITY>1</PRICE_QUANTITY>
<QUANTITY_MIN>1</QUANTITY_MIN>
<QUANTITY_INTERVAL>1</QUANTITY_INTERVAL>

<PRICE_AMOUNT>2.24</PRICE_AMOUNT>
```

Cable ties

(billing per unit)

```
<ORDER_UNIT>C62</ORDER_UNIT>
<CONTENT_UNIT>C62</CONTENT_UNIT>
<NO_CU_PER_OU>1</NO_CU_PER_OU>
<PRICE_QUANTITY>100</PRICE_QUANTITY>
<QUANTITY_MIN>100</QUANTITY_MIN>
<QUANTITY_INTERVAL>100</QUANTITY_INTERVAL>

<PRICE_AMOUNT>6.75</PRICE_AMOUNT>
```

Test badge

(billing per packet)

```
<ORDER_UNIT>PA</ORDER_UNIT>
<CONTENT_UNIT>ST</CONTENT_UNIT>
<NO_CU_PER_OU>10</NO_CU_PER_OU>
<PRICE_QUANTITY>1</PRICE_QUANTITY>
<QUANTITY_MIN>1</QUANTITY_MIN>
<QUANTITY_INTERVAL>1</QUANTITY_INTERVAL>

<PRICE_AMOUNT>26.56</PRICE_AMOUNT>
```

Chipboard screw countersunk head**(billing per box)**

<ORDER_UNIT>**CS**</ORDER_UNIT>
<CONTENT_UNIT>**C62**</CONTENT_UNIT>
<NO_CU_PER_OU>**200**</NO_CU_PER_OU>
<PRICE_QUANTITY>**1**</PRICE_QUANTITY>
<QUANTITY_MIN>**1**</QUANTITY_MIN>
<QUANTITY_INTERVAL>**1**</QUANTITY_INTERVAL>

<PRICE_AMOUNT>**10.80**</PRICE_AMOUNT>

Speaker cable**(billing per meter)**

<ORDER_UNIT>**MTR**</ORDER_UNIT>
<CONTENT_UNIT>**MTR**</CONTENT_UNIT>
<NO_CU_PER_OU>**1**</NO_CU_PER_OU>
<PRICE_QUANTITY>**100**</PRICE_QUANTITY>
<QUANTITY_MIN>**100**</QUANTITY_MIN>
<QUANTITY_INTERVAL>**100**</QUANTITY_INTERVAL>

<PRICE_AMOUNT>**39.50**</PRICE_AMOUNT>

House wiring cable PVC insulated**(100m ring, billing per 1,000 meter)**

<ORDER_UNIT>**MTR**</ORDER_UNIT>
<CONTENT_UNIT>**MTR**</CONTENT_UNIT>
<NO_CU_PER_OU>**1**</NO_CU_PER_OU>
<PRICE_QUANTITY>**1000**</PRICE_QUANTITY>
<QUANTITY_MIN>**100**</QUANTITY_MIN>
<QUANTITY_INTERVAL>**100**</QUANTITY_INTERVAL>

<PRICE_AMOUNT>**490.00**</PRICE_AMOUNT>

Heat-shrink tubing

(billing per unit)

<ORDER_UNIT>**C62**</ORDER_UNIT>
<CONTENT_UNIT>**MTR**</CONTENT_UNIT>
<NO_CU_PER_OU>**12**</NO_CU_PER_OU>
<PRICE_QUANTITY>**1**</PRICE_QUANTITY>
<QUANTITY_MIN>**1**</QUANTITY_MIN>
<QUANTITY_INTERVAL>**1**</QUANTITY_INTERVAL>

<PRICE_AMOUNT>**19.35**</PRICE_AMOUNT>

e. Prices

With the element `PRODUCT_PRICE_DETAILS` price data of a product are specified. With the attribute “price_type” of the element `PRODUCT_PRICE` it is possible to indicate different prices for a product. Only one single price is permitted per `PRODUCT_PRICE` price_type and `LOWER_BOUND`. The data receivers expect here the list (gross) price (attribute “net_list”, discountable) without sales tax and/or a customer specific special purchase price (attribute „net_customer“) for the data receiver without sales tax and/or the suggested retail price incl. sales tax (attribute „nrp“). A customer specific special purchase price can only be given if it differs from the calculated price „net_list minus discount“.

With the transaction `T_UPDATE_PRICES` it is as well possible to transmit customer specific prices.

Example for the illustration of several prices

```
<PRODUCT_PRICE_DETAILS>
  <DATETIME type="valid_start_date">
    <DATE>2015-01-01</DATE>
  </DATETIME>
  <PRODUCT_PRICE price_type="net_list">
    <PRICE_AMOUNT>61.1</PRICE_AMOUNT>
    <PRICE_CURRENCY>EUR</PRICE_CURRENCY>
    <TAX>0.19</TAX>
    <LOWER_BOUND>1</LOWER_BOUND>
  </PRODUCT_PRICE>
  <PRODUCT_PRICE price_type="net_list">
    <PRICE_AMOUNT>53.8</PRICE_AMOUNT>
    <PRICE_CURRENCY>EUR</PRICE_CURRENCY>
    <TAX>0.19</TAX>
    <LOWER_BOUND>10</LOWER_BOUND>
  </PRODUCT_PRICE>
  <PRODUCT_PRICE price_type="net_customer">
    <PRICE_AMOUNT>48.7</PRICE_AMOUNT>
    <PRICE_CURRENCY>EUR</PRICE_CURRENCY>
    <TAX>0.19</TAX>
    <LOWER_BOUND>1</LOWER_BOUND>
  </PRODUCT_PRICE>
</PRODUCT_PRICE_DETAILS>
```

Example for the transmission of products without prices

If there are no list prices for some products (e.g. price on request), these products can also be transmitted in the ETIM BMEcat like described here:

```
<PRODUCT_PRICE_DETAILS>
  <DATETIME type="valid_start_date">
    <DATE>2015-07-01</DATE>
  </DATETIME>
  <DAILY_PRICE>true</DAILY_PRICE>
  <PRODUCT_PRICE price_type="net_list">
    <PRICE_AMOUNT>0.0</PRICE_AMOUNT>
    <PRICE_CURRENCY>EUR</PRICE_CURRENCY>
    <TAX>0.19</TAX>
    <LOWER_BOUND>1</LOWER_BOUND>
  </PRODUCT_PRICE>
</PRODUCT_PRICE_DETAILS>
```

Greatest care has to be taken that the transmission in the ETIM BMEcat is exactly given as mentioned above. Especially important at this point is the element “DAILY_PRICE” (with the indication “true”) as a mark for a product without a current list price.

f. Pictures and other additional documents

With the version 4.0 of this Guideline, the MIME information for products is moved from its previous location T_NEW_CATALOG → PRODUCT → MIME_INFO to a new subtree UDX.EDXF.MIME_INFO, the reason being that there were some elements missing in the original BMEcat subtree. But the original MIME_INFO is still used in the Header of the ETIM BMEcat to transmit the MIME information about the logo of a supplier/manufacturer.

With the element UDX.EDXF.MIME_INFO references to additional multimedia documents of a product can be specified. This makes it possible, for example, to reference images and product data sheets of a product at a catalog data exchange.

Manufacturer specific, product related information should be available for direct access by „deep linking“ via a provided URL. Navigation elements are not allowed on the target page. A price orientation should be avoided.

It is assumed that these supplementary data will be transmitted in addition (on a separate path) and can be found relative to the specified directory MIME_ROOT in the HEADER. The file names of the MIME objects may not be distinguishable only by the path statement. They also cannot contain special characters. This also includes: „ “ / \ = ? * , < > | ; : +

The element UDX.EDXF.MIME_INFO contains any number of MIME elements. Each of these elements represents exactly one reference to a supplementary document. The definition of the element MIME is inspired by the MIME format (Multipurpose Internet Mail Extensions). The MIME format is used to standardize data transfer over the internet.

When using URLs, a link to a product related single page is recommended.

Predefined values for the element UDX.EDXF.MIME_CODE (and for MIME_DESCR in header):

One of the following codes must be used.

Code	Designation
MD01	Product picture
MD02	Similar figure
MD03	Safety data sheet
MD04	Deeplink product page
MD05	Deeplink REACH
MD06	Energy label
MD07	Product data sheet for energy label
MD08	Calibration certificate
MD09	Certificate
MD10	Circuit diagram
MD11	Construction Products Regulation
MD12	Dimensioned drawing
MD13	Environment label
MD14	Instructions for use
MD15	Light cone diagram
MD16	Light Distribution Curve
MD17	Logo 1c
MD18	Logo 4c
MD19	Luminaire data
MD20	Ambient picture
MD21	Mounting instruction
MD22	Product data sheet
MD23	Product picture back view
MD24	Product picture bottom view
MD25	Product picture detailed view
MD26	Product picture front view
MD27	Product picture sloping
MD28	Product picture top view

Code	Designation
MD29	Product picture view from the left side
MD30	Product picture view from the right side
MD31	Seal of approval
MD32	Technical manual
MD33	Test approval
MD34	Wiring diagram
MD35	Supplier's declaration for products having preferential origin status
MD37	3D / BIM object
MD38	Management, operation and maintenance document
MD39	Instructional video
MD40	Spare parts list
MD41	Sales brochure
MD42	AVCP certificate (Assessment and Verification of Constancy of Performance)
MD43	CLP (Classification, Labelling and Packaging)
MD44	ECOP (Environmental Code of Practice)
MD45	Product video
MD46	360° view
MD47	Thumbnail of Product picture (MD01)
MD48	Pictogram/Icon
MD49	Declaration RoHS
MD50	Declaration CoC (Certificate of Conformity, requested for CPR)
MD51	Declaration DOP (Declaration of performance)
MD52	Declaration DOC CE (Declaration of conformity CE)
MD53	Declaration BREEAM (Building Research Establishment Environmental Assessment Method)
MD54	Declaration EPD (Environmental Product Declaration)
MD55	Declaration ETA (European Technical Assessment)
MD56	Declaration warranty (Warranty statement)
MD99	Others

The size of pictures:

The best existing quality of a picture should be delivered.

Absolutely minimum requirement: 300 pixels (only relevant for raster images, not for vector images).

Notice: Pictures in the format .tif have to be delivered with the transparency path or masked!

It is important to ensure that the supplied picture fits to the product content wise. In exceptional cases, if a product can only be represented by the picture of a related product, the MIME code “MD02” (Similar figure) can be used generally.

The “Energy label” should be delivered in JPG format. A “product data sheet for energy label” must be supplied together with the label (Regulation EU 518/2014 of the European Commission). The necessary information depends on the product category.

g. Subtree PRODUCT_REFERENCE

Permitted values for the attribute “type” of the element PRODUCT_REFERENCE (acc. to BMEcat® 2005):

Designation	Attribute value	Explanation
Accessories	accessories	The reference product listed under PROD_ID_TO is an accessory product of the source product. An accessory product is considered to extend the functionality of the source product.
Base product	base_product	The reference product listed under PROD_ID_TO is the base product of the source product, thus the base product is an abstract, packing-independent description of the source product
Component part	consists_of	The reference product listed under PROD_ID_TO is a component part of this source product. This type of reference can be used to build up parts lists. Reference is always made from the parent part to the parts it consists of. In order to reference the number of reference parts contained, the attribute "quantity" can be added.
Follow-up article	followup	The reference product listed under PROD_ID_TO is the follow-up product to this source product. A follow-up product is defined as a product which has the same purpose and functions as the source product and can be considered a more advanced version of it.
Mandatory additional product	mandatory	The reference product listed under PROD_ID_TO is a mandatory additional product which must always be ordered at the same time as the product article. The source product described cannot be ordered alone. If several products are marked "mandatory" they must all be ordered together with the source product.
Similar product	similar	The reference product listed under PROD_ID_TO is similar to this source product. A similar product is defined as a product which is similar in purpose and functions to the source product and can possibly be used in its place.
Selectable mandatory product	select	The reference product listed under PROD_ID_TO is a selectable additional product. The described reference product cannot be ordered alone. If several products are connected by "select" at least one of the additional products for the source product listed under PROD_ID_TO must be ordered.
Spare part	sparepart	The reference product listed under PROD_ID_TO is a spare part for this source product. A spare part is defined as a part of the product that can be replaced separately in the course of maintenance and repair activities.
Other reference type	others	This reference type can be used if none of the other reference types adequately describes the relationship between the reference product and the source product.

Examples for some PRODUCT_REFERENCE's:

- **accessories**

Source product = socket outlet; accessories = mounting frame

- **base_product**

Source product = six pack of beer; base product = beer without any packing information

- **consists_of**

It must be specified that a table with the SUPPLIER_PID "Table 1" consists of one table top with the SUPPLIER_PID "Table top 5" and four table legs with the SUPPLIER_PID "Leg 7".

```
<PRODUCT>
  <SUPPLIER_PID>Table 1</SUPPLIER_PID>
  ...
  <PRODUCT_REFERENCE type="consists_of" quantity="1">
    <PROD_ID_TO>Table top 5</PROD_ID_TO>
  </PRODUCT_REFERENCE>
  <PRODUCT_REFERENCE type="consists_of" quantity="4">
    <PROD_ID_TO>Leg 7</PROD_ID_TO>
  </PRODUCT_REFERENCE>
</PRODUCT>
```

other examples:

- Cooker consists of Baking oven and Hob
- Storage heater consists of Housing, Heating element and Stones

- **follow-up**

```
<PRODUCT_REFERENCE type="followup">
  <PROD_ID_TO>4711</PROD_ID_TO>
</PRODUCT_REFERENCE>
```

h. REACH

In the ETIM BMEcat there should be a reference via deeplink to the homepage of the manufacturer about REACH „Registration, Evaluation und Authorization in the European Community (EC) used Chemicals“, i.e. not only to the general homepage, but directly to the REACH information (ideally directly to the REACH information of the single product).

```
<UDX.EDXF.REACH>
  <UDX.EDXF.REACH.LISTDATE>2017-08-01</UDX.EDXF.REACH.LISTDATE>
  <UDX.EDXF.REACH.INFO>false</UDX.EDXF.REACH.INFO>
</UDX.EDXF.REACH>
```

A deeplink of course still has to be specified, to allow detailed information (in particular, what specific substances are in the product).

This solution does not cover all aspects of the REACH regulation:

- there is a current discussion at European level that REACH should also refer to relate on partial products
- the candidate list is updated regularly, i.e. supplemented with further substances; the list will take effect immediately with publication
- in different batches, a clear statement to the product is not possible
- also the manufacturer has to rely on the statements of his suppliers

Further information about REACH can be found on the websites of the ECHA (European Chemicals Agency) - <http://echa.europa.eu>

i. Safety data sheet and ECCN codes

Safety data sheet

In the catalog, all products must be labelled, which according to §14 of the Hazardous Substances Act, have a safety data sheet (Material Safety Data Sheet - MSDS) in accordance with Directive 91/155/EEC. In addition, all MSDS have to be deposited under the relevant product with other documents in the respective language as a PDF file (a link to the suppliers website is not allowed). Furthermore, all suppliers have to submit the MSDS to the applicable data receiver after any revision or modification, especially if a product is classified different due to a recipe modification or a legal change. Thereby, the supplier's product ID and the catalog have to be given for an unambiguous assignment of the MSDS. The transmitted MSDS's have to be deposited as a PDF file with the next catalog update. The suppliers have to mark altered MSDS with the annual catalog update. This obligation can be fulfilled e.g. by attaching a list with all changed products. The new version of the MSDS must be annotated with the words "Reviewed: ... (date)". The changes that were made in the revision of an MSDS have to be indicated. In addition, make sure that the description of the Multipurpose Internet Message Extension (MIME) for safety data sheets must be "MD03" (Safety data sheet).

USA - Export Control Classification Number (ECCN)

The ECCN is an alphanumeric product classification that is issued by the Bureau of Industry and Security (BIS), a division of the US Department of Commerce. The ECCN is used in the "Commerce Control List" to identify different products at the export control.

Such a number is required by a company, if the U.S. importer re-exports the goods. The suitable ECCN for a specific product can be found in the Commerce Control List that in turn is located in the Export Administration Regulations. Alternatively you can inquire for the suitable ECCN at the following website:

<http://www.bis.doc.gov/Licensing>

Data transfer:

The information on the MSDS and ECCN codes in the ETIM BMEcat are given as SPECIAL_TREATMENT_CLASS. The type for the relevance of an MSDS is the attribute "MSDS" and the associated information "true" or "false". The safety data sheet is then passed as MIME. The type for the ECCN code is the attribute "ECCN" and the associated value is the ECCN.

When a country declares the field SPECIAL_TREATMENT_CLASS as "+mandatory", always a value has to be supplied. If a product is not subject to the labelling obligation, the fields mentioned in the example below have to be filled with the text "NOT_RELEVANT" and "NONE".

Possible "Special Treatment classes" (not a complete listing):

- MSDS
- SDS
- ECCN
- AL
- SIDAB
- GGVS (German "Gefahrgutverordnung Strasse")
- UN (4-digit UN code for hazardous substance)

Example safety data sheet MSDS, ECCN codes and Labelling obligation Export list number

```
<PRODUCT>
<SUPPLIER_PID>108014</SUPPLIER_PID>
<PRODUCT_DETAILS>
  <DESCRIPTION_SHORT>Flat nose pliers short 160mm</DESCRIPTION_SHORT>
  <DESCRIPTION_LONG>Flat nose pliers short 160mm with two colored, ergonomic plastic shell. Good grip also when wet and dirty, isolating
  at extreme temperatures, electric hits and vibrations</DESCRIPTION_LONG>
  <INTERNATIONAL_PID type="gtin">4012345108014</INTERNATIONAL_PID>
  <MANUFACTURER_PID>108014</MANUFACTURER_PID>
  <MANUFACTURER_NAME>Sample company ltd.</MANUFACTURER_NAME>
  <MANUFACTURER_TYPE_DESCR>108014</MANUFACTURER_TYPE_DESCR>
  <SPECIAL_TREATMENT_CLASS type="MSDS">true</SPECIAL_TREATMENT_CLASS>
  <SPECIAL_TREATMENT_CLASS type="ECCN">3A001</SPECIAL_TREATMENT_CLASS>
  <SPECIAL_TREATMENT_CLASS type="AL">N</SPECIAL_TREATMENT_CLASS>
</PRODUCT_DETAILS>
```

The example message above means that there is a safety data sheet (MSDS), the Export Control Classification Number (ECCN) is 3A001 and a category of the export list (AL) does not exist.

Example if a product is not subject to the labelling obligation

```
<PRODUCT>
<SUPPLIER_PID>108030</SUPPLIER_PID>
<PRODUCT_DETAILS>
  <DESCRIPTION_SHORT>Screwdriver PZ 2</DESCRIPTION_SHORT>
  <DESCRIPTION_LONG> Screwdriver PZ 2 with plastic handle</DESCRIPTION_LONG>
  <INTERNATIONAL_PID type="gtin">4012345108030</INTERNATIONAL_PID>
  <MANUFACTURER_PID>108030</MANUFACTURER_PID>
  <MANUFACTURER_NAME>Sample company ltd.</MANUFACTURER_NAME>
  <MANUFACTURER_TYPE_DESCR>108030</MANUFACTURER_TYPE_DESCR>
  <SPECIAL_TREATMENT_CLASS type="NOT_RELEVANT">NONE</SPECIAL_TREATMENT_CLASS>
</PRODUCT_DETAILS>
```

Important:

If there is a statement “NOT_RELEVANT”, it is not allowed to define a SPECIAL_TREATMENT_CLASS in the next line of the BMEcat for this product (essentially clear, only to avoid confusion).

Exception for no statement according to the Special Treatment Class:

If an ETIM BMEcat file is created e.g. based on a central product database and currently there is no information about a Special Treatment Class for some products, it is allowed (exceptionally!) to deliver the information “NO_DATA”:

```
<SPECIAL_TREATMENT_CLASS type="NO_DATA">NO_DATA</SPECIAL_TREATMENT_CLASS>
```

j. Examples of packing variants

If possible, only actual packing units should be used for the packing variants, in other words, not piece (C62), meter (MTR), kilogram (KGM) or liter (LTR) for example.

However, in the ETIM environment, the units piece, meter and kilogram play a role insofar as articles are delivered partially also in general unpacked by the manufacturer to the data receiver (however, piece, meter and kilogram are no packing units in the proper meaning of the word).

That means, if a manufacturer delivers a single product (as a piece, meter goods or by kilogram) unpacked to the data receiver, the information about this smallest unpacked unit has to be transmitted.

For one individual packing quantity (QUANTITY_MIN and QUANTITY_MAX) of a product, not more than one packing unit code (PACKING_UNIT_CODE) is allowed.

Therefore, the following configurations are not allowed for an article:

```
<USER_DEFINED_EXTENSIONS>
  <UDX.EDXF.PACKING_UNITS>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>1</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>1</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>C62</UDX.EDXF.PACKING_UNIT_CODE>
    </UDX.EDXF.PACKING_UNIT>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>1</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>1</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>PA</UDX.EDXF.PACKING_UNIT_CODE>
    </UDX.EDXF.PACKING_UNIT>
  </UDX.EDXF.PACKING_UNITS>
</USER_DEFINED_EXTENSIONS>
```

The code of the packing unit (UDX.EDXF.PACKING_UNIT_CODE) of the different packing levels must be assigned the same for each product. So allowed would be e.g.:

```
<USER_DEFINED_EXTENSIONS>
  <UDX.EDXF.PACKING_UNITS>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>10</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>10</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>PA</UDX.EDXF.PACKING_UNIT_CODE>
    </UDX.EDXF.PACKING_UNIT>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>100</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>100</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>PA</UDX.EDXF.PACKING_UNIT_CODE>
    </UDX.EDXF.PACKING_UNIT>
  </UDX.EDXF.PACKING_UNITS>
</USER_DEFINED_EXTENSIONS>
```

But of course this is not allowed for the units piece, meter and kilogram:

- packing unit 1 = 1 piece and
- packing unit 2 = 10 pieces would not be allowed!

The same refers to the units meter and kilogram

Example for the correct indication of the packing units of a product:

Order unit = C62 (= one/piece)

packing unit 1 = 1 unit in a packet (= PA)

packing unit 2 = 10 units = carton (= CT)

packing unit 3 = 40 units = 1 pallet (= PF)

```
<USER_DEFINED_EXTENSIONS>
  <UDX.EDXF.PACKING_UNITS>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>1</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>1</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>PA</UDX.EDXF.PACKING_UNIT_CODE>
      <UDX.EDXF.VOLUME>0.0323</UDX.EDXF.VOLUME>
      <UDX.EDXF.WEIGHT>0.67</UDX.EDXF.WEIGHT>
      <UDX.EDXF.LENGTH>0.38</UDX.EDXF.LENGTH>
      <UDX.EDXF.WIDTH>0.10</UDX.EDXF.WIDTH>
      <UDX.EDXF.DEPTH>0.85</UDX.EDXF.DEPTH>
      <UDX.EDXF.GTIN>4012345678901</UDX.EDXF.GTIN>
    </UDX.EDXF.PACKING_UNIT>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>10</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>10</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>CT</UDX.EDXF.PACKING_UNIT_CODE>
      <UDX.EDXF.VOLUME>0.425</UDX.EDXF.VOLUME>
      <UDX.EDXF.WEIGHT>6.7</UDX.EDXF.WEIGHT>
      <UDX.EDXF.LENGTH>1.0</UDX.EDXF.LENGTH>
      <UDX.EDXF.WIDTH>0.5</UDX.EDXF.WIDTH>
      <UDX.EDXF.DEPTH>0.85</UDX.EDXF.DEPTH>
      <UDX.EDXF.GTIN>4012345678002</UDX.EDXF.GTIN>
    </UDX.EDXF.PACKING_UNIT>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>40</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>40</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>PF</UDX.EDXF.PACKING_UNIT_CODE>
      <UDX.EDXF.VOLUME>0.96</UDX.EDXF.VOLUME>
      <UDX.EDXF.WEIGHT>28</UDX.EDXF.WEIGHT>
```

```
<UDX.EDXF.LENGTH>1.2</UDX.EDXF.LENGTH>
<UDX.EDXF.WIDTH>0.8</UDX.EDXF.WIDTH>
<UDX.EDXF.DEPTH>1.0</UDX.EDXF.DEPTH>
<UDX.EDXF.GTIN>4012345643901</UDX.EDXF.GTIN>
</UDX.EDXF.PACKING_UNIT>
</UDX.EDXF.PACKING_UNITS>
</USER_DEFINED_EXTENSIONS>
```

Explanation to the product 4012345678901

This is only one single product that is delivered in the packing unit packet (PA), so the QUANTITY_MIN and the QUANTITY_MAX is always 1.

The packing dimensions of this single packed product are:

- volume 0.0323 m³ (the ETIM BMEcat requires m³)
- weight 0.67 kg (the ETIM BMEcat requires kg)
- length 0.38 m (the ETIM BMEcat requires m)
- width 0.1 m (the ETIM BMEcat requires m)
- depth 0.85 m (the ETIM BMEcat requires m)

The GTIN of this product in this packing unit is 4012345678901.

The fields, designations and units have been taken from the specification BMEcat® 2005 to ensure a very high compatibility.

Explanation to the product 4012345678002

This is a product that is delivered in the packing unit carton (CT). QUANTITY_MIN and QUANTITY_MAX are 10. That means, in one carton there are 10 products.

The packing dimensions of this carton are:

- volume 0.425 m³ (the ETIM BMEcat requires m³)
- weight 6.7 kg (the ETIM BMEcat requires kg)
- length 1.0 m (the ETIM BMEcat requires m)
- width 0.5 m (the ETIM BMEcat requires m)
- depth 0.85 m (the ETIM BMEcat requires m)

The GTIN of this product in this packing unit is 4012345678002.

Explanation to the product 4012345643901

This is a product that is delivered in the packing unit pallet (PF = pallet). QUANTITY_MIN and QUANTITY_MAX are 40. That means, on one pallet there are 40 products.

The packing dimensions of this pallet are:

- volume 0.96 m³ (the ETIM BMEcat requires m³)
- weight 28 kg (the ETIM BMEcat requires kg)
- length 1.2 m (the ETIM BMEcat requires m)
- width 0.8 m (the ETIM BMEcat requires m)
- depth 1.0 m (the ETIM BMEcat requires m)

The GTIN of the product in this packing unit is 4012345643901

Product with the only packing unit pallet:

Machines or similar products can have the pallet as the only packing unit. Therefore this would then be the smallest packing unit and has to be transmitted accordingly in the ETIM BMEcat also in this way.

Excursus:

The indication “MIN” and “MAX” results from the specification BMEcat® 2005. At this point, it is for example possible for the product “lemonade” to declare, that at a maximum 12 bottles are always delivered in one crate. That means if 1 to 12 bottles are ordered always a crate will be delivered. The element QUANTITY_MIN would be 1 and the element QUANTITY_MAX will be 12.

In the environment of ETIM this possibility usually does not play a role, which means the value QUANTITY_MIN and QUANTITY_MAX is for the packing unit of one product always identical.

Further specific product examples explaining the packing units:

Installation duct

The installation duct is usually sold in a carton to 96 meters. If required, the article is also delivered separately, but then delivered unpacked. The single canal (length 2 m) is plastered at the front ends with foil to protect it from soiling and scratching but is not shrink-wrapped (thus no bag), that means, the first packing unit will be meter.

```
<USER_DEFINED_EXTENSIONS>
  <UDX.EDXF.PACKING_UNITS>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>2</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>2</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>MTR</UDX.EDXF.PACKING_UNIT_CODE>
      <UDX.EDXF.VOLUME>0.0004</UDX.EDXF.VOLUME>
      <UDX.EDXF.WEIGHT>0.220</UDX.EDXF.WEIGHT>
      <UDX.EDXF.LENGTH>2.000</UDX.EDXF.LENGTH>
      <UDX.EDXF.WIDTH>0.020</UDX.EDXF.WIDTH>
      <UDX.EDXF.DEPTH>0.010</UDX.EDXF.DEPTH>
      <UDX.EDXF.GTIN>4012196097814</UDX.EDXF.GTIN>
    </UDX.EDXF.PACKING_UNIT>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>96</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>96</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>CT</UDX.EDXF.PACKING_UNIT_CODE>
      <UDX.EDXF.VOLUME>0.0252</UDX.EDXF.VOLUME>
      <UDX.EDXF.WEIGHT>11.335</UDX.EDXF.WEIGHT>
      <UDX.EDXF.LENGTH>2.012</UDX.EDXF.LENGTH>
      <UDX.EDXF.WIDTH>0.146</UDX.EDXF.WIDTH>
      <UDX.EDXF.DEPTH>0.086</UDX.EDXF.DEPTH>
      <UDX.EDXF.GTIN>4012196097821</UDX.EDXF.GTIN>
    </UDX.EDXF.PACKING_UNIT>
  </UDX.EDXF.PACKING_UNITS>
</USER_DEFINED_EXTENSIONS>
```

Cable tray

The cable tray is sold only unpacked and separately in the first packing stage with a length of 3 m. According to the size of the article (long property) the cost of the packing would exceed the effective benefit. In addition, a cable tray is made of steel and therefore relatively insensitive. The tray is marked by a lateral Inkjet printing. Likewise, a marking with an attached label would be conceivable.

```
<USER_DEFINED_EXTENSIONS>
  <UDX.EDXF.PACKING_UNITS>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>3</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>3</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>MTR</UDX.EDXF.PACKING_UNIT_CODE>
      <UDX.EDXF.VOLUME>0.0180</UDX.EDXF.VOLUME>
      <UDX.EDXF.WEIGHT>4.95</UDX.EDXF.WEIGHT>
      <UDX.EDXF.LENGTH>3.1</UDX.EDXF.LENGTH>
      <UDX.EDXF.WIDTH>0.100</UDX.EDXF.WIDTH>
      <UDX.EDXF.DEPTH>0.060</UDX.EDXF.DEPTH>
      <UDX.EDXF.GTIN>4012195829553</UDX.EDXF.GTIN>
    </UDX.EDXF.PACKING_UNIT>
  </UDX.EDXF.PACKING_UNITS>
</USER_DEFINED_EXTENSIONS>
```

Bend for mesh cable tray

The formed component "bend" is only sold unpacked and separately as one piece. The cost of a packing would exceed the effective benefit. Concerning to the unusual format and size, a packing of such an article would be difficult to implement as well as too sophisticated. In addition, the bend is made of steel and therefore relatively insensitive. This article is marked with all required information by a label.

```
<USER_DEFINED_EXTENSIONS>
  <UDX.EDXF.PACKING_UNITS>
    <UDX.EDXF.PACKING_UNIT>
      <UDX.EDXF.QUANTITY_MIN>1</UDX.EDXF.QUANTITY_MIN>
      <UDX.EDXF.QUANTITY_MAX>1</UDX.EDXF.QUANTITY_MAX>
      <UDX.EDXF.PACKING_UNIT_CODE>C62</UDX.EDXF.PACKING_UNIT_CODE>
      <UDX.EDXF.VOLUME>0.0012</UDX.EDXF.VOLUME>
      <UDX.EDXF.WEIGHT>0.627</UDX.EDXF.WEIGHT>
      <UDX.EDXF.LENGTH>0.150</UDX.EDXF.LENGTH>
      <UDX.EDXF.WIDTH>0.125</UDX.EDXF.WIDTH>
```

```

        <UDX.EDXF.DEPTH>0.065</UDX.EDXF.DEPTH>
        <UDX.EDXF.GTIN>4012196050482</UDX.EDXF.GTIN>
    </UDX.EDXF.PACKING_UNIT>
</UDX.EDXF.PACKING_UNITS>
</USER_DEFINED_EXTENSIONS>

```

Fire partitioning

A fire partitioning is usually sold in a carton of 10 pieces. If required, the article is also delivered separately, but then delivered unpacked. The single article is marked by a lateral printing.

```

<USER_DEFINED_EXTENSIONS>
    <UDX.EDXF.PACKING_UNITS>
        <UDX.EDXF.PACKING_UNIT>
            <UDX.EDXF.QUANTITY_MIN>1</UDX.EDXF.QUANTITY_MIN>
            <UDX.EDXF.QUANTITY_MAX>1</UDX.EDXF.QUANTITY_MAX>
            <UDX.EDXF.PACKING_UNIT_CODE>C62</UDX.EDXF.PACKING_UNIT_CODE>
            <UDX.EDXF.VOLUME>0.0024</UDX.EDXF.VOLUME>
            <UDX.EDXF.WEIGHT>0.66</UDX.EDXF.WEIGHT>
            <UDX.EDXF.LENGTH>0.250</UDX.EDXF.LENGTH>
            <UDX.EDXF.WIDTH>0.120</UDX.EDXF.WIDTH>
            <UDX.EDXF.DEPTH>0.080</UDX.EDXF.DEPTH>
            <UDX.EDXF.GTIN>4012195428213</UDX.EDXF.GTIN>
        </UDX.EDXF.PACKING_UNIT>
    </UDX.EDXF.PACKING_UNITS>
        <UDX.EDXF.PACKING_UNIT>
            <UDX.EDXF.QUANTITY_MIN>10</UDX.EDXF.QUANTITY_MIN>
            <UDX.EDXF.QUANTITY_MAX>10</UDX.EDXF.QUANTITY_MAX>
            <UDX.EDXF.PACKING_UNIT_CODE>CT</UDX.EDXF.PACKING_UNIT_CODE>
            <UDX.EDXF.VOLUME>0.0419</UDX.EDXF.VOLUME>
            <UDX.EDXF.WEIGHT>7.25</UDX.EDXF.WEIGHT>
            <UDX.EDXF.LENGTH>0.471</UDX.EDXF.LENGTH>
            <UDX.EDXF.WIDTH>0.316</UDX.EDXF.WIDTH>
            <UDX.EDXF.DEPTH>0.282</UDX.EDXF.DEPTH>
            <UDX.EDXF.GTIN>4012195454359</UDX.EDXF.GTIN>
        </UDX.EDXF.PACKING_UNIT>
    </UDX.EDXF.PACKING_UNITS>
</USER_DEFINED_EXTENSIONS>

```

For each product at least the smallest regular PACKING_UNIT has to be indicated. The indication of all additional existing packing units is certainly also important, to enable the data receiver a useful disposition (also in the interest of the manufacturer). The predefined units (cubic meter, kilogram, meter) must be strictly respected. The use of another unit (e.g. liter, gram, millimeter) is not allowed. Please be sure to observe the “Examples of packing variants” and the corresponding information at 5j.

The sub tree PACKING_UNITS is not used at the standard position, because BMEcat® 2005 does not allow multiple appearance of sizes like volume, weight, length etc., which is requested for ETIM purposes. Therefore the whole sub tree is presented as a UDX element.

k. Product series

Explanation to the field “Product series” <UDX.EDXF.PRODUCT_SERIES>

If a product belongs to a program or a series, this of course should also be transmitted in the ETIM BMEcat.

Especially in the area of switches this is important but today this is also important for Small Domestic Appliances or Luminaries. Furthermore the program name may appear in the long description additionally.

Since it is possible that the description of a product series is country-related or language-specific, the data type dtMLSTRING is assigned to the field (according to the Specification BMEcat® 2005).

The attribute “lang” need not be indicated, if the standard language for the element CATALOG was set to only one language.

Example for monolingual indication of a product series (norm):

```
<UDX.EDXF.PRODUCT_SERIES>Pentacolor<UDX.EDXF.PRODUCT_SERIES>
```

Example for multilingual indication of a product series:

```
<UDX.EDXF.PRODUCT_SERIES lang="deu">Flächenprogramm<UDX.EDXF.PRODUCT_SERIES>
```

```
<UDX.EDXF.PRODUCT_SERIES lang="eng">Surface Program<UDX.EDXF.PRODUCT_SERIES>
```

I. Examples of surcharge types

Surcharge in percentage with step sizes (e.g. 5 %)

Surcharge takes place, if the silver price rises by more than 50 € by comparison to the mentioned price in the material basis (finished step).

This means, at a basis of 150 and 5% surcharge per finished step of 50.00 €:

- starting from 200 = 5% surcharge
- starting from 250 = 10% surcharge
- starting from 300 = 15% surcharge
- starting from 350 = 20% surcharge etc.

```
<UDX.EDXF.SURCHARGE_LIST>
<UDX.EDXF.SURCHARGE>
  <UDX.EDXF.SURCHARGE_TYPE>silver</UDX.EDXF.SURCHARGE_TYPE>
  <UDX.EDXF.SURCHARGE_MANNER>base</UDX.EDXF.SURCHARGE_MANNER>
  <UDX.EDXF.SURCHARGE_PERCENTAGE>0.05</UDX.EDXF.SURCHARGE_PERCENTAGE>
  <UDX.EDXF.SURCHARGE_CALCULATION>1</UDX.EDXF.SURCHARGE_CALCULATION>
  <UDX.EDXF.MATERIAL_BASIS>150</UDX.EDXF.MATERIAL_BASIS>
  <UDX.EDXF.MATERIAL_BASIS_SURCHARGE_THRESHOLD>50</UDX.EDXF.MATERIAL_BASIS_SURCHARGE_THRESHOLD>
  <UDX.EDXF.MATERIAL_BASIS_SURCHARGE_SHUTTER>2</UDX.EDXF.MATERIAL_BASIS_SURCHARGE_SHUTTER>
  <UDX.EDXF.MATERIAL_BASIS_SURCHARGE_CREDIT>1</UDX.EDXF.MATERIAL_BASIS_SURCHARGE_CREDIT>
</UDX.EDXF.SURCHARGE>
</UDX.EDXF.SURCHARGE_LIST>
```

Surcharge weight with basis

According to BMEcat® 2005 metal figures have to be indicated as “gram per PRICE_QUANTITY of the ORDER_UNIT”. That unusual size within the cable industry is a result of ELDANORM.

Example for PRICE_QUANTITY = 1.000 (ORDER_UNIT = meter)

```
<UDX.EDXF.SURCHARGE_LIST>
<UDX.EDXF.SURCHARGE>
  <UDX.EDXF.SURCHARGE_TYPE>copper</UDX.EDXF.SURCHARGE_TYPE>
  <UDX.EDXF.SURCHARGE_MANNER>base</UDX.EDXF.SURCHARGE_MANNER>
  <UDX.EDXF.MATERIAL_BASIS>150</UDX.EDXF.MATERIAL_BASIS>
  <UDX.EDXF.MATERIAL_BASIS_WEIGHT>43000</UDX.EDXF.MATERIAL_BASIS_WEIGHT>
```

```
</UDX.EDXF.SURCHARGE>  
</UDX.EDXF.SURCHARGE_LIST>
```

Example for PRICE_QUANTITY = 100 (ORDER_UNIT = meter)

```
<UDX.EDXF.SURCHARGE_LIST>  
  <UDX.EDXF.SURCHARGE>  
    <UDX.EDXF.SURCHARGE_TYPE>copper</UDX.EDXF.SURCHARGE_TYPE>  
    <UDX.EDXF.SURCHARGE_MANNER>base</UDX.EDXF.SURCHARGE_MANNER>  
    <UDX.EDXF.MATERIAL_BASIS>150</UDX.EDXF.MATERIAL_BASIS>  
    <UDX.EDXF.MATERIAL_BASIS_WEIGHT>4300</UDX.EDXF.MATERIAL_BASIS_WEIGHT>  
  </UDX.EDXF.SURCHARGE>  
</UDX.EDXF.SURCHARGE_LIST>
```

Percentage surcharge to the list price net_list for packing (e.g. 1%)

```
<UDX.EDXF.SURCHARGE_LIST>
<UDX.EDXF.SURCHARGE>
  <UDX.EDXF.SURCHARGE_TYPE>packaging</UDX.EDXF.SURCHARGE_TYPE>
  <UDX.EDXF.SURCHARGE_MANNER>base</UDX.EDXF.SURCHARGE_MANNER>
  <UDX.EDXF.SURCHARGE_PERCENTAGE>0.01</UDX.EDXF.SURCHARGE_PERCENTAGE>
</UDX.EDXF.SURCHARGE>
</UDX.EDXF.SURCHARGE_LIST>
```

Surcharge in percentage with step sizes and weight with basis

Surcharge takes place, if the silver price rises by 1.00 € (started step) by comparison to the mentioned price in the material basis. If it declines 1.00 € below, a credit will be made.

This means, at a basis of 150 and 5 % surcharge per started step of 50.00 €:

starting from 151 = 5% surcharge

starting from 201 = 10% surcharge

starting from 251 = 15% surcharge

starting from 301 = 20% surcharge etc. (credit corresponding)

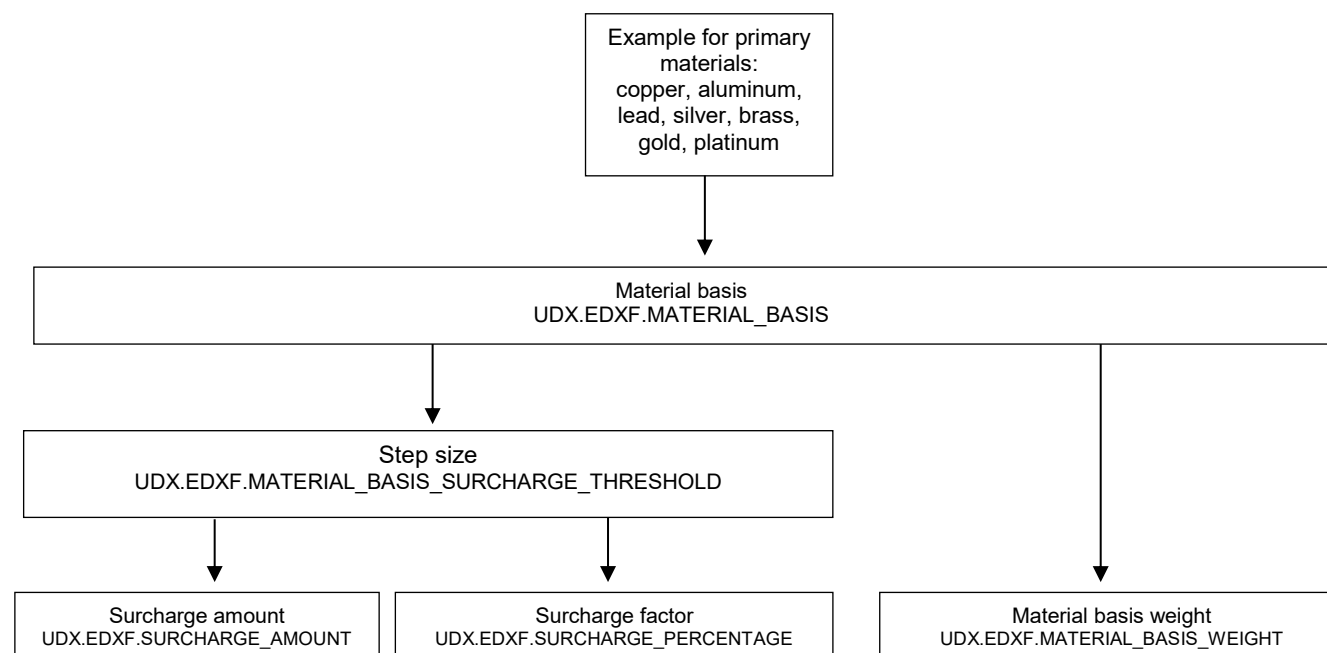
```
<UDX.EDXF.SURCHARGE_LIST>
<UDX.EDXF.SURCHARGE>
  <UDX.EDXF.SURCHARGE_TYPE>silver</UDX.EDXF.SURCHARGE_TYPE>
  <UDX.EDXF.SURCHARGE_MANNER>base</UDX.EDXF.SURCHARGE_MANNER>
  <UDX.EDXF.SURCHARGE_PERCENTAGE>0.05</UDX.EDXF.SURCHARGE_PERCENTAGE>
  <UDX.EDXF.SURCHARGE_CALCULATION>1</UDX.EDXF.SURCHARGE_CALCULATION>
  <UDX.EDXF.MATERIAL_BASIS>150</UDX.EDXF.MATERIAL_BASIS>
  <UDX.EDXF.MATERIAL_BASIS_SURCHARGE_THRESHOLD>50</UDX.EDXF.MATERIAL_BASIS_SURCHARGE_THRESHOLD>
  <UDX.EDXF.MATERIAL_BASIS_SURCHARGE_SHUTTER>1</UDX.EDXF.MATERIAL_BASIS_SURCHARGE_SHUTTER>
  <UDX.EDXF.MATERIAL_BASIS_SURCHARGE_CREDIT>2</UDX.EDXF.MATERIAL_BASIS_SURCHARGE_CREDIT>
</UDX.EDXF.SURCHARGE>
<UDX.EDXF.SURCHARGE>
  <UDX.EDXF.SURCHARGE_TYPE>copper</UDX.EDXF.SURCHARGE_TYPE>
  <UDX.EDXF.SURCHARGE_MANNER>base</UDX.EDXF.SURCHARGE_MANNER>
  <UDX.EDXF.MATERIAL_BASIS>150</UDX.EDXF.MATERIAL_BASIS>
```

```
<UDX.EDXF.MATERIAL_BASIS_WEIGHT>110</UDX.EDXF.MATERIAL_BASIS_WEIGHT>
</UDX.EDXF.SURCHARGE>
</UDX.EDXF.SURCHARGE_LIST>
```

Transmission of information to WEEE (Waste Electrical and Electronic Equipment)

```
<UDX.EDXF.SURCHARGE_LIST>
<UDX.EDXF.SURCHARGE>
  <UDX.EDXF.SURCHARGE_TYPE>recycling WEEE</UDX.EDXF.SURCHARGE_TYPE>
  <UDX.EDXF.SURCHARGE_MANNER>base</UDX.EDXF.SURCHARGE_MANNER>
  <UDX.EDXF.SURCHARGE_PRICE_AMOUNT>0.28</UDX.EDXF.SURCHARGE_PRICE_AMOUNT>
</UDX.EDXF.SURCHARGE>
</UDX.EDXF.SURCHARGE_LIST>
```

Graphical illustration of the metal surcharges and the relation between the elements



The diagram illustrates the dependency of the fields, but does not correspond to the order of the tags in BMEcat!

m. Subtree PRODUCT_CHARACTERISTICS

UDX.EDXF.PRODUCT_CHARACTERISTICS

In order to be better able to accommodate local needs for information, that is only used for one country, in this version a new subtree element UDX.EDXF.PRODUCT_CHARACTERISTICS has been introduced. Another argument for this is to avoid an explosion of elements in the common part of the BMEcat (UDX) that is internationally used for all countries.

For this new element each country can define itself what information they would like to exchange with this element. To make it more flexible it also should be possible to introduce new elements in between official releases. For that a dynamic document (with version date) will be published in the download section with the official guidelines on the website www.etim-international.com/downloads, listing all the defined characteristics per country. Although it is not specifically designed for this, it is also allowed for manufacturers to use this element to provide additional free information in a structured way, which then of course is not standardized.

In this chapter you will find some general explanations on how this element should be used. For the definition of country specific characteristics using this element see the respective country specific regulation sections in chapter 11 of this Guideline.

UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE

Each separate characteristic should be identified with a unique code. This code is defined in the country specific regulations. The code should start with a 2-letter country code (acc. the specification of the data type dtCOUNTRIES) and an underscore (like UK_...); the rest of the code can be designed as suitable for the country's needs. Some countries want to include a sector designation in the code, where others have no need for that.

UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME

A (short) description of the characteristic in one or more languages.

For the values to the specific characteristic, the element to use depends on the type of characteristic; this also has to be defined per characteristic code.

UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN

Use this element if the characteristic requires a true/false response (a yes or no question)

UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC

Use this element if the characteristic requires a number value, whether or not related to a unit of measurement.

UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_FROM

Use this element if the characteristic requires a range of number values, whether or not related to a unit of measurement. RANGE_FROM being the lower value, always used in combination with RANGE_TO.

UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_TO

Use this element if the characteristic requires a range of number values, whether or not related to a unit of measurement. RANGE_TO being the upper value, always used in combination with RANGE_FROM.

UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING

Use this element if the characteristic requires a single string characteristics value (free text). The datatype allows for multiple languages, but only one instance may occur per language.

UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SET

Use this element if the characteristic requires multiple (free text) values for a product characteristics. There is no upper bound limit to the number of values that can be carried.

UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT

Use this element if the characteristic requires a value that has to be chosen from a predefined list of possible values. The list of possible values (coded or not) needs to be defined for each specific characteristic in the respective country specific regulation.

UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE

For values of the type NUMERIC and RANGE a UNIT_CODE can be requested. Recommended is the use of codes as defined in UN/ECE CEFACT Trade Facilitation Recommendation No.20. The datatype however is set to dtSTRING allowing 1 to 3 characters, this to not limit the use of this field in case own defined unit codes are preferred.

UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN

This element can be used to reference this information for example to a specific packing type of the product.

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>EI_E001</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Colour variant</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>red</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE
      type="gtin">04010940042387</UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>EI_E001</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Colour variant</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>white</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE
      type="gtin">04010940042388</UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>EI_E001</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Colour variant</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>blue</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE
      type="gtin">04010940042389</UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

6. Link compilation

- BMEcat® Version 2005 (<http://www.bmecat.org>), you will get the documentation after a free registration
- ETIM International (<http://www.etim-international.com>)
ETIM classification model version 7.0 (IXF format)
- UN/ECE Recommendation 20 (<http://www.unece.org>)
Codes for Units of Measurement Used in International Trade (PDF-Files)
- D-U-N-S® Number (<http://dnb.com>), the Data Universal Numbering System is a 9-digit numeric code which was developed and regulated by Dun & Bradstreet in 1962 for identifying companies clearly worldwide.
- Information on ECCN (<http://www.trade.gov/>)

7. ISO - International Organization for Standardization

- ISO 3166-1:2013

<http://www.iso.org>

Codes for the representation of names of countries and their subdivisions

Part 1: Country codes

- ISO 3166-2:2013

<http://www.iso.org>

Codes for the representation of names of countries and their subdivisions

Part 2: Country subdivision code

- ISO 639-2:1998

<http://www.iso.org>

Codes for the representation of names of languages

Part 2: Language Alpha-3 code (Terminology code)

- ISO 4217:2008

<http://www.currency-iso.org/>

Codes for the representation of currencies and funds

Note:

The permitted currency codes of the specification BMEcat® 2005 are defined in the XSD file <bmeecat_2005.xsd>.

New codes that exist in the ISO do not exist in the BMEcat® 2005 XSD and are therefore not allowed.

As the best possible intermediate solution, in the ETIM BMEcat XSD the currency code “PLN” (New Polish Zloty) will be allowed, but please take care that it might be rejected in the certification according to the standard BMEcat® 2005.

8. Explanation data types

The data types used in this ETIM Guideline are defined in the Specification BMEcat 2005 as follows:

Basic data types

Designation	Data type name	Explanation	Underlying standards	Format
Boolean value	dtBOOLEAN	The values "true" or "false" can be entered.	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	
Date and time	dtDATE	Date specification. Example: 2018-01-30	XML Schema Part 2: Data types Second Edition W3C Recommendation 28 October 2004 Data type dateTime http://www.w3.org/TR/xmlschema-2/#dateTime	yyyy-mm-dd
Floating-point number	dtFLOAT	Floating-point number in accordance with IEEE 754 The decimal separator is the dot. No separator for thousand is permitted. Example: 15.4	IEEE 754-1985: IEEE Standard for Binary Floating-Point Arithmetic see also 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	
Multilingual	dtMLSTRING	This data type differs from the dtSTRING		

Designation	Data type name	Explanation	Underlying standards	Format
string		<p>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 data type allows multilingual catalogs, thus multilingual content (i.e. texts) can be transferred in a single BMEcat document. 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	Numeric value. Used whenever a more specific numeric format is either not required or impractical. There are no restrictions regard-		

Designation	Data type name	Explanation	Underlying standards	Format
		<p>ing 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 -123.456</p> <p>Wrong: 13,20 1.000.000</p>		
Character string	dtSTRING	<p>Character string according to the encoding standard.</p> <p>Example: Screw driver, yellow</p>		

Enumeration data types

Designation	Data type name	Explanation	Underlying standards	Format
Country codes	dtCOUNTRIES	<p>Country codes to indicate areas of availability.</p> <p>Examples: DE (Germany); US (USA)</p>	<p>ISO 3166-1 Country codes http://www.iso.org/iso/en/prods-services/iso3166ma/index.html</p>	6 characters
Currency codes	dtCURRENCIES	<p>Currency codes to indicate currencies</p> <p>Examples:</p>	<p>ISO 4217:1995 Currency codes [ISO-4217:1995] http://www.unece.org/cefact/recommendations/rec09/rec09.zip</p>	3 characters

Designation	Data type name	Explanation	Underlying standards	Format
		EUR (Euro); USD (US Dollar)		
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/ec_index.htm	maximum 3 characters
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/ec_index.htm	maximum 3 characters
GTIN	typeGTIN	If GTIN is used in UDX fields, where no compliance with the basic BMEcat is needed, this datatype (based on dtSTRING) will be used to be able to validate the GTIN field correctly	Global Trade Item Number (GTIN) is an identifier for trade items, developed by GS1, see https://www.gtin.info/	Minimum 8 and maximum 14 characters

9. Allowed order-, quantity- and packing units

A subset of the UN/ECE recommendation 20 is used: <http://www.unece.org/>

The following tables show, which units are used in the catalog system. For this reason, all units in the catalog have to be encoded according to the UN/ECE-codes or quantity units which are listed in this table. Further definitions/specifications to the units are not given and are selected by the data supplier meaningful and consistent/uniform for equal products or product packing.

Allowed order- and quantity units:

Code	Designation	Code	Designation
ANN	Year	MMK	Square millimeter
BE	Bundle	MMQ	Cubic millimeter
BG	Bag	MMT	Millimeter
BO	Bottle	MTK	Square meter
BX	Box	MTQ	Cubic meter
C62	One (unit)	MTR	Meter
CA	Can	PA	Packet
CL	Coil	PF	Pallet (lift)
CMK	Square centimeter	PK	Pack
CMQ	Cubic centimeter	PL	Pail
CMT	Centimeter	PR	Pair
CQ	Cartridge	PU	Tray / tray pack
CR	Crate	RG	Ring
CS	Case	RL	Reel
CT	Carton	RO	Roll
D99	Sleeve	SA	Sack
DAY	Day	SEC	Seconds
DR	Drum	SET	Set
GRM	Gram	ST	Sheet
HUR	Hour	TN	Tin
KG	Keg	TNE	Metric ton
KGM	Kilogram	TU	Tube
KTM	Kilometer	WEE	Week
LTR	Liter	Z2	Chest
MGM	Milligram	Z3	Cask
MLT	Milliliter		

Allowed packing units:

Code	Designation
BE	Bundle
BG	Bag
BO	Bottle
BX	Box
C62	One (unit)
CA	Can
CL	Coil
CQ	Cartridge
CR	Crate
CS	Case
CT	Carton
CY	Cylinder
D99	Sleeve
DR	Drum
EV	Envelope
KG	Keg
PA	Packet
PF	Pallet (lift)
PK	Pack
PL	Pail
PR	Pair
PU	Tray / tray pack
RG	Ring
RL	Reel
RO	Roll
SA	Sack
SET	Set
TN	Tin
TU	Tube
WR	Wrap
Z2	Chest
Z3	Cask

10. Country specific regulations

In this chapter, each ETIM country organization can define specific regulations, relevant for data transfer in their market.

General mandatory elements must be also mandatory in each country.

But vice versa it could be possible to declare a general optional field as mandatory in a country.

See annex Excel file **<ETIM BMEcat Guideline V4-0-2 - Overview elements.xlsx>**

On www.etim-international.com you will find current contact information (e-mail) of each country.

a. AT - AUSTRIA

- **Text fields (identic to the German definition of text fields)**

- For the Austrian market, the element "DESCRIPTION_LONG" is described as follows:
"The aim of the element DESCRIPTION_LONG is a more detailed product description. ETIM features can be used but neither exclusively nor as a series of several ETIM features. Also not desired is a one-to-one copy of the DESCRIPTION_SHORT."

Requested are formulated texts that should have a commercial and / or technical character. The long description should present features of a product – among others – that cannot be described with the structured data. Redundant information that is already submitted elsewhere in the BMEcat file should be avoided."

- Text fields ("Short description", "Long description", "Keywords", ...) may not contain font formatting (bold, italic (cur-sive), underline, ...). Allowed are all characters of the German character set, without semicolon, quotation marks, em dash/longer dash and apostrophe. Only the "Long description" may contain additional structures (e.g. bullets) but no HTML tags.

HTML tags will be permitted if they are escaped.

- The current spelling rules are generally observed. Particularly the use of capital letters/chapters generally should be avoided (e.g. JUNCTION BOX). Furthermore, sequences of blanks or information about the date of delivery are not allowed. The indication of a product number or a manufacturer name in the fields "Short description", "Long description" and "Keyword" should also be avoided.

- **BMEcat element "INTERNATIONAL_PID"**

If existing, this information is mandatory.

- **General requirements**

- The link must be valid during the period of the ETIM BMEcat data

- **MIME elements**

The data receivers expect at least one picture for each product according to the following specifications:

UDX.EDXF.MIME_CODE = “MD01” (Product picture) or “MD02” (Similar figure)

UDX.EDXF.MIME_DESIGNATION = “normal”

The picture should be in the format jpg or png.

The recommended quality is: 500 to 500 Pixel, 300 dpi

Exactly this combination represents the “standard picture” of a product and therefore may occur only once per product in the BMEcat.

In the field „**UDX.EDXF.MIME_SOURCE**“ should only be delivered the file name **without** a relative path.

Further pictures and documents can and should be delivered in addition, however, not with the indications used for the standard picture. Not permitted is the delivery of picture data that contains written or graphical information “Picture not available”.

If the product needs an “energy label” it should be delivered in format jpg or png in the same quality as written above.

If the product needs a “safety data sheet” the document is mandatory and should be delivered in format pdf.

It is recommended that a “product data sheet” for each product is delivered – format pdf.

- See chapter 11 for Austrian country specific UDX.EDXF.PRODUCT_CHARACTERISTICS

b. BE - BELGIUM

- No country specific regulations for this version 4.0 of the ETIM Guidelines.

c. CH - SWITZERLAND

- No country specific regulations for this version 4.0 of the ETIM Guidelines.
- See chapter 11 for Swiss country specific UDX.EDXF.PRODUCT_CHARACTERISTICS

d. DE - GERMANY

- **Text fields**
 - For the German market, the element "DESCRIPTION_LONG" is described as follows:
"The aim of the element DESCRIPTION_LONG is a more detailed product description. ETIM features can be used but neither exclusively nor as a series of several ETIM features. Also not desired is a one-to-one copy of the DESCRIPTION_SHORT.
Requested are formulated texts that should have a commercial and / or technical character. The long description should present features of a product – among others – that cannot be described with the structured data. Redundant information that is already submitted elsewhere in the BMEcat file should be avoided."
 - Text fields ("Short description", "Long description", "Keywords", ...) may not contain font formatting (bold, italic (cur-sive), underline, ...). Allowed are all characters of the German character set, without semicolon, quotation marks, em dash/longer dash and apostrophe. Only the "Long description" may contain additional structures (bullets, paragraphs/line breaks) but no HTML tags.
HTML tags will be permitted if they are escaped.
 - The current spelling rules are generally observed. Particularly the use of capital letters/chapters generally should be avoided (e.g. JUNCTION BOX). Furthermore, sequences of blanks or information about the date of delivery are not allowed. The indication of a product number or a manufacturer name in the fields "Short description", "Long description" and "Keyword" should also be avoided.

- **General requirements**

- The link must be valid during the period of the ETIM BMEcat data

- **MIME elements**

The data receivers expect at least two pictures for each product according to the following specifications:

Once the combination:

UDX.EDXF.MIME_CODE = "MD01" (Product picture) or "MD02" (Similar figure)

UDX.EDXF.MIME_DESIGNATION = "normal"

Exactly this combination represents the "standard picture" of a product and therefore may occur only once per product in the BMEcat.

Once the combination:

UDX.EDXF.MIME_CODE = "MD01" (Product picture) or "MD02" (Similar figure)

UDX.EDXF.MIME_DESIGNATION = "detail"

Further pictures and documents can and should be delivered in addition, however, not with the indications used for the standard picture. Not permitted is the delivery of picture data that contains written or graphical information "Picture not available".

- Specification for product group cables and wires in Germany

	NYM-J 3x1.5 100m ring	NYY-J 3x1.5 exact 500 m non- returnable reel	NYY-J 3x1.5 exact 3,000 m returna- ble drum	NAYCWY 3x120 approx. 500 m returna- ble drum	NAYCWY 3x120 cutting length
Element: PRODUCT_DETAILS					
Short description (DESCRIPTION_SHORT)	see below	see below	see below	see below	see below
Long description (DESCRIPTION_LONG)	see below	see below	see below	see below	see below
INTERNATIONAL_PID type="gtin"	n14	n14	n14	n14	n14
Manufacturer type description (MANUFACTURER_TYPE_DESCRIPTION)	see below	see below	see below	see below	see below
Element: PRODUCT_ORDER_DETAILS					
Order unit (ORDER_UNIT)	MTR	MTR	MTR	MTR	MTR
Content unit (CONTENT_UNIT)	MTR	MTR	MTR	MTR	MTR
Packing quantity (NO_CU_PER_OU)	1	1	1	1	1
Price quantity (PRICE_QUANTITY)	1000	1000	1000	1000	1000
Quantity interval (QUANTITY_INTERVAL)	100	500	3000	500	1
Element: PRODUCT_PRICE					
Price type (PRICE_TYPE)	net_list	net_customer	net_customer	net_customer	net_customer
Price currency (PRICE_CURRENCY)	EUR	EUR	EUR	EUR	EUR
Price amount (PRICE_AMOUNT)	490.00	152.00	152.00	5300.00	5300.00
Tax rate (TAX)	0.19	0.19	0.19	0.19	0.19
Territory (TERRITORY)	DE	DE	DE	DE	DE
Element: UDX.EDXF.PRODUCT_LOGISTIC_DETAILS					

	NYM-J 3x1.5 100m ring	NYJ-J 3x1.5 exact 500 m non- returnable reel	NYJ-J 3x1.5 exact 3,000 m returna- ble drum	NAYCWY 3x120 approx. 500 m returna- ble drum	NAYCWY 3x120 cutting length
Net weight (UDX.EDXF.NETWEIGHT)	0.11	0.11	0.176	2.660	2.660
Element: UDX.EDXF.SURCHARGE_LIST					
Surcharge type (UDX.EDXF.SURCHARGE_TYPE)	copper	copper	copper	aluminum	aluminum
Surcharge manner (UDX.EDXF.SURCHARGE_MANNER)	base	base	base	base	base
Surcharge factor (UDX.EDXF.SURCHARGE_PERCENTAGE)					
Surcharge price amount (UDX.EDXF.SURCHARGE_PRICE_AMOUNT)					
Material basis (UDX.EDXF.MATERIAL_BASIS)	150	0	0	0	0
Material basis weight (UDX.EDXF.MATERIAL_BASIS_WEIGHT)	43000	43000	43000	1044000	1044000
Quantity unit (UDX.EDXF.MATERIAL_BASIS_PRICE_UNIT)	MTR	MTR	MTR	MTR	MTR
Surcharge type (UDX.EDXF.SURCHARGE_TYPE)				copper	copper
Surcharge manner (UDX.EDXF.SURCHARGE_MANNER)				base	base
Element: UDX.EDXF.PACKING_UNITS (1 of n)					
Minimum quantity (UDX.EDXF.QUANTITY_MIN)	100	500	3000	450	1
Maximum quantity (UDX.EDXF.QUANTITY_MAX)	100	500	3000	550	15
Packing unit code (UDX.EDXF.PACKING_UNIT_CODE)	RG	CL	DR	DR	RG
Element: UDX.EDXF.PACKING_UNITS (2 of n)					
Minimum quantity (UDX.EDXF.QUANTITY_MIN)	4800	2000		900	16
Maximum quantity (UDX.EDXF.QUANTITY_MAX)	4800	2000		1100	1500
Packing unit code	PF	PF		PF	DR

	NYM-J 3x1.5 100m ring	NYN-J 3x1.5 exact 500 m non- returnable reel	NYN-J 3x1.5 exact 3,000 m returna- ble drum	NAYCWY 3x120 approx. 500 m returna- ble drum	NAYCWY 3x120 cutting length
(UDX.EDXF.PACKING_UNIT_CODE)					

Explanation on the separate sample data:

Element: PRODUCT_DETAILS	
Short description (DESCRIPTION_SHORT) max. 150 characters BMEcat® 2005 allows 150 characters (versus max. 80 characters in BMEcat 1.2). If a data supplier wants to provide more than 80 characters, it should be noticed that the text can be automatically cut off by the data receiver after 80 characters (depending on the data receiver's requirements of the target system)	In this field a textual description of the product is to enter. In catalogs it can be used as a headline of a product type. Examples: House wiring cable, PVC insulated Medium voltage power cable, VPE insulated with Cu conductor, longitudinal water blocking screen and PE sheath
Long description (DESCRIPTION_LONG) max. 64,000 characters	In this field a textual description of the application and the usage of the product is to enter. It can be related as an explaining text to a product type. Example: According to VDE 0298, part 3 – installation on top, on, in and under plaster in dry, humid and wet rooms and also in brickwork and concrete, except for direct embedding in shaking-, vibratory or tamped concrete. As well suitable for outdoor usage if protected from direct sunlight, however not in the soil.
Manufacturer type description (MANUFACTURER_TYPE_DESCR) max. 50 characters	Construction type, number of cores and nominal cross section should be filled in. Examples: J-Y(ST)Y 5x2x0.6 or

	NYM-J 3x1.5 or NAYCWY 3x120
--	-----------------------------------

Element: PRODUCT_ORDER_DETAILS

Quantity interval (QUANTITY_INTERVAL)	Shows the interval in which the product can be ordered. For cutting length it is usually "1" (1 meter). For a stock length of e.g. 500 m with permitted length tolerance of maybe 450 m to 550 m it is "500" (500 meters). The length tolerances are specified by the maximum and minimum quantity. (UDX.EDXF.QUANTITY_MIN / UDX.EDXF.QUANTITY_MAX), see below
--	--

Element: PRODUCT_PRICE

Price type (PRICE_TYPE)	net_list Discountable list(gross)price without sales tax. net_customer Net purchase price without sales tax.
-------------------------	---

Surcharge data: UDX.EDXF.SURCHARGE_LIST (See also documentation ELDANORM 2000).
--

Surcharge type (UDX.EDXF.SURCHARGE_TYPE)	Indication on the metal which is related to all further data: aluminum copper lead silver The surcharge data can be given multiple if a product has several metals (see example NAYCWY).
Surcharge manner (UDX.EDXF.SURCHARGE_MANNER)	In this field the value "base" has to be specified.
Surcharge factor (UDX.EDXF.SURCHARGE_PERCENTAGE)	No value has to be entered.
Surcharge price amount (UDX.EDXF.SURCHARGE_PRICE_AMOUNT)	No value has to be entered.
Material basis (UDX.EDXF.MATERIAL_BASIS)	The metal quotation that is already charged in the price has to be given, e.g.: - "000" for hollow prices - "100" for prices that include already the charge of the belonging metal with 100.00 €/100 kg - "150" for prices that include already the charge of the belonging metal with 150.00 €/100 kg Notice: With so-called full prices, all data on metal surcharges can be omitted.
Material basis weight	Material weight (Individual metal number) has to be given in „grams per price reference quantity of

Surcharge data: UDX.EDXF.SURCHARGE_LIST (See also documentation ELDANORM 2000).	
(UDX.EDXF.MATERIAL_BASIS_WEIGHT)	the order unit" (grams per PRICE_QUANTITY of the ORDER_UNIT) i.e. usually grams / 1,000 meter
Quantity unit	MTR
Step size (UDX.EDXF.MATERIAL_BASIS_SURCHARGE_THRESHOLD)	Usually no information is required for this field

Element: UDX.EDXF.PACKING_UNITS (1 of n)	
Minimum quantity / Maximum quantity (UDX.EDXF.QUANTITY_MIN / UDX.EDXF.QUANTITY_MAX)	<p>Depending on the different packing sizes the element can appear multiple, e.g. also to describe the content of a pallet (see example above „NYM-J 3x1.5 as 100 m ring“).</p> <ol style="list-style-type: none"> (1) If “Minimum quantity” and “Maximum quantity” are equal, the product is invariably in its length (length fix). (2) If “Minimum quantity” and “Maximum quantity” are different, the product is variable in its length (length variable). Length variable products are in addition to cutting lengths also so-called stock lengths with approximately lengths. Example: a 500 m stock length – depending on the product – can vary between 450 and 550 m for manufacturing reasons. (3) Cutting lengths (length variable product) can be identified by the fact that the quantity interval is always filled in with the value “1” (meter). (4) For cutting lengths (length variable product) the largest specified “Maximum quantity” corresponds to the maximum production-technical admissible single length.
Packing unit code (UDX.EDXF.PACKING_UNIT_CODE)	<p>The following definition is the base to avoid misinterpretation:</p> <p>Coil (CL): The coil is a light storage and transport container for cables and wires that generally can be used only once. Colloquially it is often also called “One-way coil”. A coil has no identification “trading unit number” to identify the coil unambiguously.</p> <p>Drum (DR): The drum is a fix storage and transport container for cable and wires that generally can be used several times. This will also include returnable drums. Colloquially in Germany it is also often called “KTG drum - Cable drum organization”. A drum has an identification “trading unit / drum number” to identify the drum unambiguously.</p>

e. DK - DENMARK

- No country specific regulations for this version 4.0 of the ETIM Guidelines.

f. ES - SPAIN

- No country specific regulations for this version 4.0 of the ETIM Guidelines.

g. FI - FINLAND

- No country specific regulations for this version 4.0 of the ETIM Guidelines.

h. FR - FRANCE

- No country specific regulations for this version 4.0 of the ETIM Guidelines.

i. IT - ITALY

- No country specific regulations for this version 4.0 of the ETIM Guidelines
- See chapter 11 for Italian country specific UDX.EDXF.PRODUCT_CHARACTERISTICS

j. LT - LITHUANIA

- No country specific regulations for this version 4.0 of the ETIM Guidelines

k. NA - NORTH AMERICA (USA/CANADA)

- No country specific regulations for this version 4.0 of the ETIM Guidelines

I. NL - THE NETHERLANDS

- Text fields
 - For the Dutch market, the element “DESCRIPTION_LONG” is described as follows: This field should be used as a commercial / marketing text about the product. (Max 1000 characters no HTML tags)
 - Some ERP software is using a long ERP description, this is a longer version of the description short with a Max of 256 characters, no HTML tags. This field is defined in the country specific UDX.EDXF.PRODUCT_CHARACTERISTIC “Long ERP description” with code “NL-008”, see chapter 11.
 - The descriptions (Description_short, Description_long and “Long ERP description”) should not contain HTML tags, font formatting (bold, italic (cursive), underline, ...).
- Packing unit code (UDX.EDXF.PACKING_UNIT_CODE)
 - C62 One (unit) is interpreted as unpacked
 - Not recommended is the use of the codes below:
 - BE (Bundle),
 - PR (Pair),
 - SET (set),
 - Z2 (Chest),
 - Z3 (Cask).
- Country of origin:
 - This field is interpreted as the country of which the product is sent out by ordering. In case of stock at several location, multiple country codes can be exchanged.

```
<PRODUCT_LOGISTIC_DETAILS>
  <COUNTRY_OF_ORIGIN>NL</COUNTRY_OF_ORIGIN>
```

- The country of production is the actual production location. Please use the country specific UDX.EDXF.PRODUCT_CHARACTERISTIC field “Country of production origin” with code “NL_006” , see chapter 11. In case of several production locations for the same product, multiple country codes can be exchanged.
- Catalogues with multiple manufacturers or suppliers.
 - In case of catalogue messages containing products of more than one manufacturer, on every product the field the country specific UDX.EDXF.PRODUCT_CHARACTERISTIC field “Manufacturer_IDref” with code “NL_010” must be used, see chapter 11.

- In case of a multi supplier catalogue, every article needs to be identified with the GLN of the supplier, the field the country specific UDX.EDXF.PRODUCT_CHARACTERISTIC field "Supplier_IDref" with code "NL_009" must be used, see chapter 11.
- When a multi catalogue message contains multiple suppliers of the same product, redundant product information should be avoided. The ETIM classification and "mime info" should only be added the first time it is mentioned in the catalogue. The function PRODUCT_REFERENCE "base_product" must be used on all the other article elements which refer to the same product.
- PRODUCT_REFERENCE "fits to" and "predecessor"
 - To define a reference of type "fits to", choose "type=others" for the field PRODUCT_REFERENCE and enter "fits to" in the field REFERENCE_DESCR. See example below.

```
<PRODUCT_REFERENCE type="others">  
  <PROD_ID_TO>654321</PROD_ID_TO>  
  <REFERENCE_DESCR>fits to</REFERENCE_DESCR>  
</PRODUCT_REFERENCE>
```

- To define a reference of type "predecessor", choose "type=others" for the field PRODUCT_REFERENCE and enter "predecessor" in the field REFERENCE_DESCR. See example below.

```
<PRODUCT_REFERENCE type="others">  
  <PROD_ID_TO>654321</PROD_ID_TO>  
  <REFERENCE_DESCR>predecessor</REFERENCE_DESCR>  
</PRODUCT_REFERENCE>
```

- See chapter 11 for Dutch country specific UDX.EDXF.PRODUCT_CHARACTERISTICS

m. NO - NORWAY

This section describes the implementation of ETIM BMEcat in the Norwegian central databases for the Electrical (EFObasen) and HVAC (NRF Databasen) sections.

- **Use of the term Catalog**

Neither database organizes data in a catalog structure, and no catalog information (version, name, etc.) will be stored.

- **Status definitions**

The product availability state is no longer controlled by the PRODUCT_STATUS element. Instead, a custom product characteristic is introduced (NO_PRODUCT_UNAVAILABLE). The product status will still be exported by both databases in the PRODUCT_STATUS element. The numeric value will be one of the following:

10 – Preregistered/reserved

20 – Active

30 – Not ready for sale (NRF only. The product's unavailability is also indicated in the above described characteristic)

50 – Awaiting approval

60 – Not approved (rejected)

90 – Deleted

On import, the status is ignored. If the product does not exist, it is created. Otherwise it is edited. To delete a product, use the transaction type T_UPDATE_PRODUCTS with a mode set to "delete".

- **Language**

Unless specified in the table in section d), only the language codes "nob" or "nor" are used. Both codes have the same meaning, and are treated identically. The export language will always be "nob".

• BMEcat to branch database field mapping

The following table lists all the fields in BMEcat and how they are used in the branch databases respectively. All fieldnames are in Norwegian. Fields found in any of the branch databases, but not in BMEcat or ETIM are transferred using the new UDX.EDXF.PRODUCT_CHARACTERISTICS element.

Legend:

" "	Denotes a parent element that does not hold any value. These elements are included for reference only
<i>"italic"</i>	Denotes an element not used by the branch database, but is an intrinsic part of BMEcat. These values are ignored on both import and export. If the element is required by BMEcat, a static value is inserted. See the individual elements for values used.
<i>"blue"</i>	Denotes a mapping from BMEcat to a database field
<i>"bronze"</i>	Indicates that a specific predefined value must be used

BMEcat element	EFO field name or value	Comments	NRF field name or value	Comments
SUPPLIER_PID	Leverandørens varenummer		Leverandørens varenummer	
PRODUCT_DETAILS	-		-	
DESCRIPTION_SHORT lang="nob"	Varebetegnelse	Max length is 100 characters	Varetekst.	See section g)
DESCRIPTION_SHORT lang="eng"	Engelsk Varebetegnelse	Max length is 100 characters	Not used	
DESCRIPTION_LONG lang="nob"	Teknisk beskrivelse	Max length is 4000 characters	Leverandørens varetekst	Max length is 4000 characters
DESCRIPTION_LONG lang="eng"	Engelsk Teknisk beskrivelse	Max length is 4000 characters	Not used	
INTERNATIONAL_PID type="gtin"	GTIN nummer		GTIN f-pak	The GTIN number will be duplicated in the package unit "f-pak"
INTERNATIONAL_PID type="upc"	Not used		Not used	
SUPPLIER_ALT_PID	Not used		Not used	
BUYER_PID type="buyer_specific"	Not used		Not used	
MANUFACTURER_PID	Produsentens varenummer		Produsentens varenummer	
MANUFACTURER_NAME	Not used	Moved to "UDX.EDXF.BRAND_NAME"	Produsentnavn	
MANUFACTURER_TYPE_DESCR	Produsentens varebetegnelse		Produsentens varebetegnelse	

SPECIAL_TREATMENT_CLASS type=	Saved as a product declaration		Saved as a product declaration	
KEYWORD	Nøkkelord		Nøkkelord	
REMARKS	Not used		Not used	
PRODUCT_STATUS	See explanation b)		See explanation b)	
PRODUCT_ORDER_DETAILS	-		-	
ORDER_UNIT	Prisenhet		Prisenhet	
CONTENT_UNIT	Grunnenhet		Grunnenhet	
NO_CU_PER_OU	Antall grunnenhet i prisenhet		Antall grunnenhet i prisenhet	
PRICE_QUANTITY	Not used		Not used	
QUANTITY_MIN	Not used		Not used	
QUANTITY_INTERVAL	Not used		Not used	
PRODUCT_PRICE_DETAILS	-		-	
DATETIME in context of PRODUCT_PRICE_DETAILS	-		-	
DATETIME type	Not used	"valid_start_date" is returned when exporting	Not used	"valid_start_date" is returned when exporting
DATE	Not used	Current date is used when exporting	Not used	Current date is used when exporting
DATETIME in context of PRODUCT_PRICE_DETAILS	-		-	
DATETIME type	Not used		Not used	
DATE	Not used		Not used	
DAILY_PRICE	Not used		Not used	
PRODUCT_PRICE price_type	Not used	"net_list" is returned when exporting	Not used	"net_list" is returned when exporting
PRICE_AMOUNT	Not used	0 is returned when exporting	Not used	0 is returned when exporting
PRICE_CURRENCY	Not used		Not used	
TAX	Not used		Not used	
PRICE_FACTOR	Not used		Not used	
LOWER_BOUND	Not used		Not used	

TERRITORY	Not used		Not used	
USER_DEFINED_EXTENSIONS	-		-	
UDX.EDXF.MIME_INFO	See explanation e)		See explanation e)	
UDX.EDXF.MANUFACTURER_ACRONYM	Not used		Not used	
UDX.EDXF.DESCRPTION_VERY_SHORT lang="nob"	Varetekst	Max length is 30 characters	Kort varetekst	Max length is 30 characters
UDX.EDXF.DESCRPTION_VERY_SHORT lang="eng"	Engelsk Varetekst	Max length is 30 characters	Not used	
UDX.EDXF.BRAND_NAME	Fabrikat/Merke	Max length is 25 characters	Merke	
UDX.EDXF.TENDER_TEXT	Not used		Not used	
UDX.EDXF.VALID_FROM	Gyldig fra		Gyldig fra	
UDX.EDXF.EXPIRATION_DATE	Gyldig til		Dato for når varen utgår	
UDX.EDXF.DISCOUNT_GROUP	-		-	
UDX.EDXF.DISCOUNT_GROUP_MANUFACTURER	Not used		Not used	
UDX.EDXF.DISCOUNT_GROUP_SUPPLIER	Not used		Not used	
UDX.EDXF.BONUS_GROUP_SUPPLIER	Not used		Not used	
UDX.EDXF.ADDITIONAL_FACTORS	-		-	
UDX.EDXF.ADDITIONAL_PRICE_FACTOR	Not used		Not used	
UDX.EDXF.ADDITIONAL_FACTOR_INFO	Not used		Not used	
UDX.EDXF.PRODUCT_TO_STOCK	Lagerføres		Lagerføres	
UDX.EDXF.PRODUCT_SERIES	Produktserie		Produktserie	
UDX.EDXF.PRODUCT_VARIATION	Produktvariant		Produktvariant	
UDX.EDXF.COUNTRY_BRANCH_NUMBERS	-		-	
UDX.EDXF.COUNTRY_BRANCH_NUMBER	Elnummer		NRF nummer	
UDX.EDXF.COUNTRY_BRANCH_NUMBER type	electrical		HVAC	
UDX.EDXF.COUNTRY_BRANCH_NUMBER country	NO		NO	
UDX.EDXF.COUNTRY_BRANCH_SUPPLIER_IDS	-		-	
UDX.EDXF.COUNTRY_BRANCH_SUPPLIER_ID	Supplier number		Supplier number	
UDX.EDXF.COUNTRY_BRANCH_SUPPLIER_ID type	electrical		HVAC	
UDX.EDXF.COUNTRY_BRANCH_SUPPLIER_ID country	NO		NO	

UDX.EDXF.PACKING_UNITS	-		-	
UDX.EDXF.PACKING_UNIT	-		-	
UDX.EDXF.QUANTITY_MIN	Antall		Antall	
UDX.EDXF.QUANTITY_MAX	Not used		Not used	
UDX.EDXF.PACKING_UNIT_CODE	Enhet		Enhet	
UDX.EDXF.PACKING_UNIT_NAME	Must be "f-pak", "m-pak", "d-pak" or "t-pak"		Must be "f-pak", "m-pak", "d-pak" or "t-pak"	
UDX.EDXF.PACKAGE_BREAK	Forpakning kan brytes		Forpakning kan brytes	
UDX.EDXF.PACKING_PARTS	Not used		Not used	
UDX.EDXF.VOLUME	Volum		Volum	
UDX.EDXF.WEIGHT	Vekt		Vekt	
UDX.EDXF.LENGTH	Lengde		Lengde	
UDX.EDXF.WIDTH	Bredde		Bredde	
UDX.EDXF.DEPTH	Høyde/dybde		Høyde	
UDX.EDXF.DIAMETER	Diameter		Diameter	
UDX.EDXF.GTIN	GTIN		GTIN	
UDX.EDXF.GS1_128	GS1 128		GS1 128	
UDX.EDXF.PRODUCT_LOGISTIC_DETAILS	-		-	
UDX.EDXF.NETVOLUME	Not used		Not used	
UDX.EDXF.NETWEIGHT	Nettovekt		Nettovekt	
UDX.EDXF.NETLENGTH	Not used		Not used	
UDX.EDXF.NETWIDTH	Not used		Not used	
UDX.EDXF.NETDEPTH	Not used		Not used	
UDX.EDXF.NETDIAMETER	Not used		Not used	
UDX.EDXF.REGION_OF_ORIGIN	Opprinnelsesregion		Opprinnelsesregion	
UDX.EDXF.REACH	-		-	
UDX.EDXF.REACH.LISTDATE	REACH dato		REACH dato	
UDX.EDXF.REACH.INFO	REACH		REACH	
UDX.EDXF.SURCHARGE_LIST	-		-	

UDX.EDXF.SURCHARGE	-	-	-	
UDX.EDXF.SURCHARGE_TYPE	Not used		Not used	
UDX.EDXF.SURCHARGE_MANNER	Not used		Not used	
UDX.EDXF.SURCHARGE_PERCENTAGE	Not used		Not used	
UDX.EDXF.SURCHARGE_PRICE_AMOUNT	Not used		Not used	
UDX.EDXF.SURCHARGE_CALCULATION	Not used		Not used	
UDX.EDXF.MATERIAL_BASIS	Not used		Not used	
UDX.EDXF.MATERIAL_BASIS_WEIGHT	Not used		Not used	
UDX.EDXF.MATERIAL_BASIS_SURCHARGE_THRESHOLD	Not used		Not used	
UDX.EDXF.MATERIAL_BASIS_SURCHARGE_SHUTTER	Not used		Not used	
UDX.EDXF.MATERIAL_BASIS_SURCHARGE_CREDIT	Not used		Not used	
UDX.EDXF.MATERIAL_BASIS_SURCHARGE_TABLE	Not used		Not used	
UDX.EDXF.PRODUCT_ETIM_DYNAMIC	-	-	-	
UDX.EDXF.PRODUCT_ETIM_RELEASE_DATE	Not used		Not used	
UDX.EDXF.PRODUCT_FEATURES_MC	ETIM MC is supported		ETIM MC is supported	
UDX.EDXF.PRODUCT_CHARACTERISTICS	See explanation f)		See explanation f)	
PRODUCT_REFERENCE	-	-	-	
PRODUCT_REFERENCE type	All types are supported		All types are supported	
PRODUCT_REFERENCE quantity	Not used, but will be stored		Not used, but will be stored	
PROD_ID_TO	Must reference a branch number (Enummer)		Must reference a branch number (NRF nummer)	
CATALOG_ID	Not used		Not used	
CATALOG_VERSION	Not used		Not used	
REFERENCE_DESCR	Not used		Not used	
PRODUCT_LOGISTIC_DETAILS	-	-	-	
CUSTOMS_TARIFF_NUMBER	-	-	-	
CUSTOMS_NUMBER	Tolltariffnummer		Tolltariffnummer	
STATISTICS_FACTOR	Statistikkfaktor		Statistikkfaktor	
COUNTRY_OF_ORIGIN	Opprinnelsesland		Opprinnelsesland	

- **MIME**

The following MIME codes are accepted. n/a denotes a MIME type that is not supported, and if provided, will be ignored. The naming of the MIME code is as the element is represented in the central database. Most image MIME types are stored under a common name, but the distinction is maintained and the correct MIME code should be provided. Both databases will require raster images (MD01) to have a width or height equal or greater than 400px with an aspect ratio of at least 0.25 with a color depth of minimum 16. There is no upper limitation to product images. Elements in red are required MIME elements.

MIME Code	EFO	NRF
MD01	Produktbilde	Produktbilde
MD02	Produktbilde	Illustrasjonsbilde
MD03	HMS dokumentasjon	SDS (Sikkerhetsdatablad)
MD04	Produktside URL	Produktside
MD05	REACH	Reach
MD06	Energimerking	Energimerke
MD07	Produktdatablad for energimerking	Energidatablad
MD08	Kalibreringssertifikat	n/a
MD09	Sertifikat	Sertifikat
MD10	Kretsdiagram	n/a
MD11	n/a	CPR sertifikat
MD12	Målskisse	Strektegning med mål
MD13	Miljømerke	n/a
MD14	Brukermanual	Brukermanual
MD15	Lyskjeglediagram	n/a
MD16	Lysdistribusjonskurve	n/a
MD17	Logo 1c	n/a
MD18	Logo 4c	Produkt logo - merkevare
MD19	Lysdata	n/a

MD20	Produktbilde	Miljøbilde
MD21	Monteringsanvisning	Monteringsanvisning
MD22	Produktblad	Produktdatablad *
MD23	Produktbilde	Produktbilde
MD24	Produktbilde	Produktbilde
MD25	Produktbilde	Produktbilde
MD26	Produktbilde	Produktbilde
MD27	Produktbilde	Produktbilde
MD28	Produktbilde	Produktbilde
MD29	Produktbilde	Produktbilde
MD30	Produktbilde	Produktbilde
MD31	Godkjenning	SINTEF teknisk godkjenning
MD32	Teknisk manual	n/a
MD33	Testgodkjenning	SINTEF produktsertifikat
MD34	Koblingsdiagram	EL-Koblingsdiagram/skjema
MD35	Leverandørens deklarasjon av produktets opprinnelse	n/a
MD37	3D/BIM objekt	3D/BIM objekt
MD38	FDV Dokumentasjon	FDV dokument *
MD39	Instruksjonsvideo	Instruksjonsvideo
MD40	Reservedelsliste	Reservedelsliste
MD41	Salgsbrosjyre	Salgsbrosjyre
MD42	AVCP	n/a
MD43	CLP	n/a
MD44	ECOP	n/a
MD45	Produktvideo	n/a
MD46	360° visning	n/a
MD47	Automatically generated by the system on import	Automatically generated by the system on import
MD48	n/a	n/a

MD49	RoHS	ROHS
MD50	Samsvarserklæring	Samsvarserklæring
MD51	Ytelseserklæring	Ytelseserklæring *
MD52	CE Deklarasjon	CE dokument
MD53	BREEAM deklarasjon	BREEAM dokumentasjon
MD54	EPD deklarasjon	EPD Miljødeklarasjon
MD55	ETA deklarasjon	ETA – europeisk teknisk godkjenning
MD56	Garanti deklarasjon	Garanti
MD99	n/a	n/a

*** At least one of the MIME elements must be provided**

- **NRF product names**

NRF stores the product name as 3 distinct parts. These are:

- Product dimension description
- Product name and description
- Additional information

When displayed, the 3 parts are combined to produce the product name (full name). For example; given the 3 parts:

Product dimension description = “50MM x 700MM”

Product name and description = “Drain”

Additional information = “Rectangular profile”

The product name will be “50MM x 700MM Drain Rectangular profile”

BMEcat does not support this naming scheme, so the 3 elements are provided as product characteristics:

- NO_PRODUCT_DIMENSION_DESCRIPTION
- NO_PRODUCT_NAME_DESCRIPTION

- NO_PRODUCT_ADDITIONAL_TEXT

The DESCRIPTION_SHORT is a mandatory element, and will be populated with the full name along with one or more of the characteristics elements when exporting from NRF. On import, the DESCRIPTION_SHORT is only imported if none of the 3 product characteristics are provided. DESCRIPTION_SHORT is then equal to NO_PRODUCT_NAME_DESCRIPTION.

The combined length of parts 1 and 2 may not exceed 60 characters and the combined length of all 3 parts may not exceed 100 characters.

Transaction types

All transaction types are supported except T_UPDATE_PRICES. The new transaction type T_NEW_PRODUCTDATA is supported, but fields that are mandatory to the branch database must be present in order for the product to be accepted and imported.

T_NEW_CATALOG is used when exporting from the branch databases.

n. PL - POLAND

- **Text fields:**

For the Polish market, the elements: DESCRIPTION_SHORT, DESCRIPTION_LONG, KEYWORD should be delivered in Polish language and may not include formatting (bold, line breaks, bullet characters ...). Allowed are all characters of the Polish character set (in UTF-8 encoding), without semicolon, quotation marks, dash and apostrophe.

- **MIME elements:**

At least one picture (MD01) is required for each product.

- **Additional elements**

There are 3 additional elements specific to the Polish market that are mandatory here:

- i. VAT-ID = Supplier should deliver his Value Added Tax Identification Number in the element "VAT_ID", in the SUPPLIER subtree.
 - ii. UDX.EDXF.BONUS_GROUP_SUPPLIER - Bonus group of the supplier (if used) should be delivered in this element.
 - iii. PL_PKWIU - Polish Classification of Products and Services 2015 value, related to the product, should be transmitted in the UDX.EDXF.PRODUCT_CHARACTERISTICS subtree. See chapter 11 for details how to use this element.
- See chapter 11 for Polish country specific UDX.EDXF.PRODUCT_CHARACTERISTICS

o. PT - PORTUGAL

- No country specific regulations for this version 4.0 of the ETIM Guidelines

p. RU - RUSSIA

- No country specific regulations for this version 4.0 of the ETIM Guidelines

q. SE - SWEDEN

- No country specific regulations for this version 4.0 of the ETIM Guidelines.

r. SI - SLOVENIA

- No country specific regulations for this version 4.0 of the ETIM Guidelines

s. SK - SLOVAKIA

- No country specific regulations for this version 4.0 of the ETIM Guidelines

t. UK - UNITED KINGDOM

- No country specific regulations for this version 4.0 of the ETIM Guidelines

11. Country specific PRODUCT_CHARACTERISTICS

In this chapter, each ETIM country organization can define specific characteristics using the element UDX.EDXF.PRODUCT_CHARACTERISTICS, in order to be better able to accommodate local needs for information that is only used for one country. To make it more flexible it should be possible to introduce new elements in between official releases. For that a dynamic document (with version date) will be published in the download section with the official guidelines on the website, listing all the defined characteristic codes per country.

a. AT - AUSTRIA

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "AT_REVERSE_CHARGE"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "REVERSE_CHARGE_INFO"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: "true" or "false"
Default	: "false"
Mandatory/optional	: Mandatory
Explanation	: Information if this product is subject to "reverse charge". This information is necessary for the Austrian wholesalers for the invoices they give to their customers. The statement here is legally binding!
Example	: -

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "AT_LEISTUNGSBESCHREIBUNG"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "LEISTUNGSBESCHREIBUNG"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 4000 characters
Default	: -
Mandatory/optional	: Optional
Explanation	: According to „Bauprodukteverordnung/Building Products Guideline“. If the product is liable to this, the information is mandatory; additional a pdf-document is mandatory with the certificate.
Example	: -

b. BE - BELGIUM

No local PRODUCT_CHARACTERISTICS yet at this moment.

c. CH - SWITZERLAND

All colour variants of a product should be delivered in the BMEcat file as follows:

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "CH_Farbe"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Farbvariante"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 4000 characters
Default	: -
Mandatory/optional	: Optional
Explanation	: The supplier's reference number for other products that are a colour variant of the original product

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>CH_Farbe</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Farbvariante</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>4704-2-
BFM57</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>CH_Farbe</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Farbvariante</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>4704-2-
BFM80</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>CH_Farbe</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Farbvariante</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>4704-2-
BFM88</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>

```

</UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

d. DE - GERMANY

No local PRODUCT_CHARACTERISTICS yet at this moment.

e. DK - DENMARK

No local PRODUCT_CHARACTERISTICS yet at this moment.

f. ES - SPAIN

No local PRODUCT_CHARACTERISTICS yet at this moment.

g. FI - FINLAND

No local PRODUCT_CHARACTERISTICS yet at this moment.

h. FR - FRANCE

No local PRODUCT_CHARACTERISTICS yet at this moment.

i. IT - ITALY

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E001"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "BARCODE_RECIPROCAL"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = relevant
Possible values	: 0;1;2
Default	: -
Mandatory/optional	: Mandatory
Explanation	: This field is used to describe all the types of packaging for a product. Taking the carton quantity indicated in the price list as a reference, it is possible to recognize and distinguish in this field the packages of an order: <ul style="list-style-type: none"> -greater RECIPROCAL = 2 -equal RECIPROCAL = 0 -lower RECIPROCAL = 1

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E001</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>BARCODE RECIPROCAL</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>1</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN>80000044323877</UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E001</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>BARCODE RECIPROCAL</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>0</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN>80000044323884</UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E001</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>BARCODE RECIPROCAL</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>2</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN>80000044329991</UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E002"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "BARCODE_CAN_BE_OVERTURNED"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = relevant
Possible values	: "true" or "false"
Default	: "true"
Mandatory/optional	: Optional
Explanation	: The information (effectively related more to the type of product than to the type of packaging) indicates to whoever receives the goods if it is possible to overturn the package or not. When the products are cables and are transported as bundles and handled with pallets, and therefore cannot be overturned, it is determined that "false" is equivalent to bundles and "true" to spools. It can be present only if "false", otherwise "true" (can be overturned) is default.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E002</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>BARCODE_CAN_BE_OVERTURNED</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE type="gtin">80000044323877</UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E002</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>BARCODE_CAN_BE_OVERTURNED</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>>false</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE type="gtin">80000044323884</UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E002</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>BARCODE_CAN_BE_OVERTURNED</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE type="gtin">80000044329991</UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E003"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "BARCODE_DATE_INTRODUCED"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: date format YYYYMMDD
Default	: -
Mandatory/optional	: Optional
Explanation	: Only for new products (status = 1 on price list line): this field indicates the date of first availability. The date introduced can be prior to the date of change/addition shown in the barcode header.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E003</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>BARCODE_DATE_INTRODUCED</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>20180201</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E004"
 Name : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ITEM_LEAD_TIME"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Indication of lead time in number of working days or weeks – see table below

Field value	LEAD DELIVERY TRANSPORT WITHIN (working days/weeks)	Field value	LEAD DELIVERY TRANSPORT WITHIN (working days/weeks)	Field value	LEAD DELIVERY TRANSPORT WITHIN (working days/weeks)	Field value	LEAD DELIVERY TRANSPORT WITHIN (working days/weeks)
1	1 day	A	2 weeks	J	11 weeks	S	20 weeks
2	2 days	B	3 weeks	K	12 weeks	T	21 weeks
3	3 days	C	4 weeks	L	13 weeks	U	22 weeks
4	4 days	D	5 weeks	M	14 weeks	V	23 weeks
5	5 days	E	6 weeks	N	15 weeks	W	24 weeks
6	6 days	F	7 weeks	O	16 weeks	X	25 weeks
7	7 days	G	8 weeks	P	17 weeks	Y	26 weeks
8	8 days	H	9 weeks	Q	18 weeks	Z	27 weeks
9	9 days	I	10 weeks	R	19 weeks		

Default : -

Mandatory/optional : Mandatory

Explanation : This field indicates the time interval (lead time) – expressed in working days or weeks– between the date of receipt of order and consignment to the carrier for orders that are not greater than the amount listed in the field "maximum quantity". The field is described using alphanumeric characters with the values as defined in the table above.

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E004</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ITEM_LEAD_TIME</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT>A</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E005"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ITEM_MAXIMUM_QUANTITY"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Number value with maximum 6 digits, no decimals (n6.0)
Default	: -
Mandatory/optional	: Mandatory
Explanation	: This field must contain the maximum quantity of the product (expressed in the UNIT of MEASURE) that the company is able to delivery within the time defined in the "lead time" field. This amount defines, at the same time, the limit above which the reference delivery terms must be agreed to with the seller.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E005</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ITEM_MAXIMUM QUANTITY</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>10000</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE> C62</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E006"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ITEM_STATISTICS_RANGE"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 18 characters
Default	: -
Mandatory/optional	: Optional
Explanation	: The statistics ranges represent a set of products for statistical purposes including all products that have the same uniform statistical criteria for the seller

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E006</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ITEM_STATISTICS_RANGE</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>C0009</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E007"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ITEM_STATISTICS_RANGE_DESC"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 70 characters
Default	: -
Mandatory/optional	: Optional, conditional: should be delivered if ITEM_STATISTICS_RANGE is delivered.
Explanation	: Statistics ranges description

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E007</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ITEM_STATISTICS_RANGE_DESC</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>COMPONENTI</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E008"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ITEM_DISCOUNT_RANGE_DESC"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 70 characters
Default	: -
Mandatory/optional	: Optional, conditional: should be delivered if UDX.EDXF.DISCOUNT_GROUP_MANUFACTURER is delivered.
Explanation	: Discount ranges description. Sets for discount do not explicitly express the discount values applied; rather they refer to a code to be interpreted using a special de-codification table supplied by the seller.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E008</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ITEM_DISCOUNT_RANGE_DESC</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>SPINE E PRESE</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E009"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ITEM_COMPOSITE_ITEM"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: "true" or "false"
Default	: "false"
Mandatory/optional	: Optional
Explanation	: This field indicates if the item is a single unit or if it is made of more different items sold together to make a kit or a composite product. It can be present only if "true".

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E009</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ITEM_COMPOSITE_ITEM</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E010"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "QTYLOGISTIC_INCENTIVE_QUANTITY"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 70 characters
Default	: -
Mandatory/optional	: Optional
Explanation	: The quantity to be manipulated for the specified product. Always use the following format: Incentive Quantity, Description of incentive

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E010</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>QTYLOGISTIC_INCENTIVE_QUANTITY</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>100, discount 5 % 100</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E010</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>QTYLOGISTIC_INCENTIVE_QUANTITY</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>1000,discount 10 % 1000</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E010</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>QTYLOGISTIC_INCENTIVE_QUANTITY</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>10000, discount 15 % 10000</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-1"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_TYPE_OF_TAX"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 20 characters
Default	: -
Mandatory/optional	: Optional, conditional. It should be present if an item is subject to WEEE or ROHS or other.
Explanation	: Identifies if an item is subject to WEEE or ROHS or other. Always Mandatory both for Visible (not internalized) and NOT Visible fee (internalized)

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E011-1</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_TYPE_OF_TAX</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>RAEE</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-2"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_NET_WEIGHT"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Number value with maximum 9 digits including 3 decimals (n9.3)
Default	: -
Mandatory/optional	: Optional
Explanation	: This is the same as the data indicated in the Metel price list. It indicates the net weight of the item unit If the item has the Visible Fee internalized, this data is optional.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_011-2</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_NET_WEIGHT</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>15300.000</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>GRM</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-3"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_CONSORTIUM"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 30 characters
Default	: -
Mandatory/optional	: Optional, conditional. It should be present if an item is subject to WEEE or ROHS or other.
Explanation	: This is the ID code and description of the waste/recycling consortium, for example: ECOLIGHT; ECOLAMP; ECODOM; ECOPED; REMEDIA; RIDOMUS; VALERE; ECORIT; Or other. Always Mandatory both for Visible (not internalized) and NOT Visible fee (internalized)

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E011-3</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_CONSORTIUM</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>ECOLIGHT</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-4"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_FEE_CODE"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 30 characters
Default	: -
Mandatory/optional	: Optional, conditional. It should be present if an item is subject to WEEE or ROHS or other.
Explanation	: This is the code assigned by the waste/recycling consortium for the Fees that must be applied to the products (the list must be supplied by the waste consortium). The FEE code must be a unique code for the consortium and must be communicated to Metel. This code allows a unique link to be identified between the consortium and the type of tax. If the item is subject to WEEE but the amount of the FEE is not indicated, "NV" must be entered in the field. Always Mandatory both for Visible (not internalized) and NOT Visible fee (internalized).

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E011-4</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_FEE_CODE</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>PF01</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-5"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_FEE_DESCRIPTION"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 70 characters
Default	: -
Mandatory/optional	: Optional, conditional. It should be present if an item is subject to WEEE or ROHS or other.
Explanation	: This is a description of the fee issued by the company that issues the price list. Always Mandatory both for Visible (not internalized) and NOT Visible fee (internalized).

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E011-5</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_FEE_DESCRIPTION</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>APPARECCHI PER IL CONDIZIONAMENTO</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-6"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_FEE_QUANTITY"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Number value with maximum 5 digits, no decimals (n5.0)
Default	: -
Mandatory/optional	: Optional, conditional. It should be present if an item is subject to WEEE or ROHS or other.
Explanation	: This is the number of times the fee must be applied for the specific item number. A typical example is when there are more than one light bulbs for the same light fixture. The unit of measure of the Fee must always refer to the individual unit of the price list, as called for in the order document quantity. The unit of measure is therefore C62= one (unit). It is Mandatory if the item has the Visible Fee (NOT internalized), otherwise is Optional.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E011-6</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_FEE_QUANTITY</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>150</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>C62</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-7"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_FEE_INDIVIDUAL_AMOUNT"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Number value with maximum 8 digits including 4 decimals (n8.4)
Default	: -
Mandatory/optional	: Optional, conditional. It should be present if an item is subject to WEEE or ROHS or other.
Explanation	: This is the amount in euros of the individual fee applied to the product. If the quantity of the fee is other than 1, the amount that is the product of the multiplication will be expressly indicated on the invoice: Fee Quantity x Fee = Total Fee Applied to Product. It is Mandatory if the item has the Visible Fee (NOT internalized), otherwise is Optional.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_011-7</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_FEE_INDIVIDUAL_AMOUNT</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>1500.0000</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-8"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_FEE_PERCENTAGE"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Number value with maximum 7 digits including 4 decimals (n7.4)
Default	: -
Mandatory/optional	: Optional. It can be present if an item is subject to WEEE or ROHS or other.
Explanation	: This is the fee percentage in % applied to the product price. This field has been included to complete the file structure, but at this time there are no elements that define its use.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_011-8</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_FEE_PERCENTAGE</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>1.5400</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-9"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_SUBJECT_TO_VAT_OR_EXEMPT"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 3 characters
Default	: -
Mandatory/optional	: Optional, conditional. It should be present if an item is subject to WEEE or ROHS or other.
Explanation	: This identifies the VAT if the fee is subject to VAT. It indicates the VAT rate and is left aligned. If the rate is not specified, the exemption code must be entered. The exemption code/description is shown in the table on the Metel invoice. It will be possible in the future to update the description indicated in the Metel User Manual. Always Mandatory both for Visible (not internalized) and NOT Visible fee (internalized)

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E011-9</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_SUBJECT_TO_VAT_OR_EXEMPT</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>022</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-10"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_MERCHANDISE_CATEGORY"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 70 characters
Default	: -
Mandatory/optional	: Optional. It can be present if an item is subject to WEEE or ROHS or other.
Explanation	: This field identifies the merchandise category indicated by law.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E011-10</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_MERCHANDISE_CATEGORY</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>1B</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "IT_E011-11"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ECOFEE_ISCRIPTION_NUMBER"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 20 characters
Default	: -
Mandatory/optional	: Optional, conditional. It should be present if an item is subject to WEEE or ROHS or other.
Explanation	: This field identifies the National Registry Inscription number indicated by law. Always Mandatory both for Visible (not internalized) and NOT Visible fee (internalized).

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>IT_E011-11</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ECOFEE_ISCRIPTION_NUMBER</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>1000000000123</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

j. LT - LITHUANIA

No local PRODUCT_CHARACTERISTICS yet at this moment.

k. NA - NORTH AMERICA (USA/CANADA)

No local PRODUCT_CHARACTERISTICS yet at this moment.

I. NL - NETHERLANDS

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_002-1"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "DIN-number"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Number value
Default	: -
Mandatory/optional	: Optional
Explanation	: This field is used for the Dutch shipbuilding sector

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_002-1</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>DIN-number</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>1</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_002-2"
 Name : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ISO-number"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value
 Default : -
 Mandatory/optional : Optional
 Explanation : This field is used as for the Dutch shipbuilding sector

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_002-2</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>ISO-number</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>500</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
  
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_004"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Single use quantity"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Number value
Default	: -
Mandatory/optional	: Optional
Explanation	: This field is used to describe the quantity of the smallest usable object (tube, screw, plate, tube,...), expressed in the unit of use. For example, if you order 10 plastic tubes of each 4 meter, the smallest usable object is 4 meters.

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_004</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME> Single use quantity </UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>4</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>MTR</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_005"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "List date_SDS"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Date in format YYYY-MM-DD
Default	: -
Mandatory/optional	: Optional
Explanation	: This field is an addition to the standard "SPECIAL_TREATMENT_CLASS" field, to define the list date of the Safety Data Sheet, if relevant.

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_005</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME> List date_SDS</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_STRING>2018-05-31</UDX.EDXF.PRODUCT_CHARACTERISTIC_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_006"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Country of production origin"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Country codes according to ISO-3166-1 (alpha 2)
Default	: -
Mandatory/optional	: Mandatory
Explanation	: This field indicates the country where the product is manufactured

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_006</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME> Country of production origin </UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING >AD</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING >
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_007"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Delivery time"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_FROM UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_TO
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Number value, allowed unit codes: WEE; DAY; HUR
Default	: -
Mandatory/optional	: Optional
Explanation	: This field is used to specify the expected minimum and maximum lead time between order and delivery time in weeks, calendar days or hours.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_007</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Delivery time</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_FROM>1</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_FROM >
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_TO>5</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_RANGE_TO >
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>DAY</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_008"
 Name : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Long ERP description"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Free text, max. 256 characters, should not contain HTML tags, font formatting (bold, italic, underline, ...)
 Default : -
 Mandatory/optional : Optional
 Explanation :

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_008</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Long ERP description</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>This field is used for a long marketing description
  </UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
  
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_009"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Supplier_IDref"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: GLN of the supplier (Global Location Number) as issued by GS1; 13 characters
Default	: -
Mandatory/optional	: Optional
Explanation	: This field is needed on product level to be able to exchange (from a central database) catalogs of different suppliers and/or manufacturers in a single file

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_009</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME> Supplier_IDref </UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>8712507900029</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_010"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Manufacturer_IDref"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: GLN of the manufacturer (Global Location Number) as issued by GS1; 13 characters
Default	: -
Mandatory/optional	: Optional
Explanation	: This field is needed on product level to be able to exchange (from a central database) catalogs of different suppliers and/or manufacturers in a single file

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_010</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME> Manufacturer_IDref </UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>8712507900014</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_011"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Purchase group"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Free text, max. 50 characters, should not contain HTML tags, font formatting (bold, italic, underline, ...)
Default	: -
Mandatory/optional	: Optional
Explanation	: This field describes the purchase group used by the manufacturer, supplier or wholesaler. The purchase group defines a part of the assortment in order to download a selection

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_011</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Purchase group</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>Bulbs</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_012"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Orderable indicator"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: "true" or "false"
Default	: "true"
Mandatory/optional	: Mandatory
Explanation	: Code expressing that the trade item is an orderable unit

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_012</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Orderable indicator</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_BOOLEAN>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_013"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "CE indicator"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: true or false
Default	: -
Mandatory/optional	: Optional
Explanation	: This field indicates the availability of the CE-mark according to the EU-regulations

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_013</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>CE indicator</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_014"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Fragile on package"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: true or false
Default	: -
Mandatory/optional	: Optional
Explanation	: Code that indicates whether the package contains fragile product(s)

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_014</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Fragile on package</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_015"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Best before date on package"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: true or false
Default	: -
Mandatory/optional	: Optional
Explanation	: This field indicates whether product has a "best before date"

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_015</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Best before date on package</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>>false</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_016-1"
 Name : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Cuttable indicator"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : true or false
 Default : -
 Mandatory/optional : Optional
 Explanation : This field indicates whether the product is cuttable, if you choose "true" (yes), then you have to fill in NL_016-2
 Maximum cutting length.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_016-1</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Cuttable indicator</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>>false</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
  
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_016-2"
 Name : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Maximum cutting length"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC_
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value, allowed unit codes: CMT; MMT; MTR
 Default : -
 Mandatory/optional : Optional
 Explanation : The maximum length in which a product can be cut

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_016-2</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Maximum cutting length</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>20</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>CMT</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
  
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_017"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Contains Batteries"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: true or false
Default	: -
Mandatory/optional	: Optional
Explanation	: This field indicates whether the package contains batteries (one or more)

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_017</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Contains batteries</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>>false</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_018"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Code VAT rate"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: E (exempt from VAT); S (standard VAT)
Default	: -
Mandatory/optional	: Optional
Explanation	: This field indicates the VAT category

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_018</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Code VAT rate</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
<UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>S</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_019"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "ROHS indicator"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: Y(es), N(o), E(exempted)
Default	: -
Mandatory/optional	: Optional
Explanation	: This field indicates whether the product restricts the use of "hazardous substances" (ROHS) according to the EU-regulations

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_019</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME> ROHS indicator </UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>Y</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NL_020"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "UNSPSC code"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: 8 digit code
Default	: -
Mandatory/optional	: Optional
Explanation	: The United Nations Standard Products and Services Code (UNSPSC) is a taxonomy of products and services for use in eCommerce. It is a four-level hierarchy coded as an eight-digit number

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTIC>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NL_020</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>UNSPSC Code</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING> 44121903</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
</UDX.EDXF.PRODUCT_CHARACTERISTIC>
```

m. NO - NORWAY

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_SUPPLIER_HEADING"
Name electrical (EFO)	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Leverandørens overskrift"
Name HVAC (NRF)	: Not used
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 64 characters
Default	: -
Mandatory/optional	: Mandatory
Explanation	: -

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_SUPPLIER_HEADING</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Leverandørens overskrift</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>EMC/VD Frekvensomformer kabel, symmetrisk type.</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_SUPPLIER_GROUPNAME"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Leverandørens varegruppe"
 Name HVAC (NRF) : Not used
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_SUPPLIER_GROUPNAME</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Leverandørens varegruppe</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>Kabler og ledninger</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_SUPPLIER_MAINGROUP"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Leverandørens hovedgruppe"
 Name HVAC (NRF) : Not used
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_SUPPLIER_MAINGROUP</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Leverandørens hovedgruppe</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>Skringsmaterie</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
  
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_HAS_SERIALNUMBER"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Serienummer"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : "true" or "false"
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_HAS_SERIALNUMBER</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Serienummer</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_REQUIRES_MD38"
Name electrical (EFO)	: Not used
Name HVAC (NRF)	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Krever FDV/DDV"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: "true" or "false"
Default	: "true"
Mandatory/optional	: Mandatory
Explanation	: If not supplied, true is assumed and a MIME element with the code MD38 must be assigned to the product

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_REQUIRES_MD38</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Krever FDV/DDV</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_NAME"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Produktnavn"
 Name HVAC (NRF) : Not used
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_SALES_TEXT1"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Selgende varetekst"
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Selgende varetekst 1"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_SALES_TEXT2"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Selgende varetekst 2"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text
 Default : -
 Mandatory/optional : Optional
 Explanation : -
 Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_UNSPSC_NUMBER"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "UNSPSC"
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "UNSPSC"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : 8 digits
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_UNSPSC_NUMBER</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>UNSPSC</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>26131809</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_MANUFACTURER_LIST"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Produsent(er)"
 Name HVAC (NRF) : Not used
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : -
 Default : -
 Mandatory/optional : Optional
 Explanation : -
 Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_CERTIFICATE_TEXT"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Sertifikat"
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Sertifikat"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text
 Default : -
 Mandatory/optional : Optional
 Explanation : -
 Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_WIDTH"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Bredde"
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Bredde"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = MMT
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value
 Default : -
 Mandatory/optional : Optional
 Explanation : Width in millimeter

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_PRODUCT_WIDTH</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Bredde</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>180.45</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>MMT</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_HEIGHT_DIAMETER"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Høyde/diameter"
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Høyde"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = MMT
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value
 Default : -
 Mandatory/optional : Optional
 Explanation : Height/diameter in millimeter

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_PRODUCT_HEIGHT_DIAMETER</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Høyde/diameter</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>130.00</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>MMT</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
  
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_LENGTH"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Lengde"
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Lengde"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = MMT
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value
 Default : -
 Mandatory/optional : Optional
 Explanation : Length in millimeter

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_PRODUCT_LENGTH</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Lengde</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>230.50</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>MMT</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
  
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_WEIGHT"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Vekt"
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Vekt per prisenh"et"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = GRM
 Unit HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = KGM
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value
 Default : -
 Mandatory/optional : Optional
 Explanation : Product weight in gram (EFO) or kilogram (NRF)

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_PRODUCT_WEIGHT</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Vekt per prisenh"et</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>1.45</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>KGM</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
  
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_EFO_BLOCKNUMBER"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "EFO Blokknummer"
 Name HVAC (NRF) : Not used
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value
 Default : -
 Mandatory/optional : Mandatory
 Explanation : -

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_EFO_BLOCKNUMBER</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>EFO Blokknummer</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>339801</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_NOBB_GROUP_NUMBER"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "NOBB varegruppe"
 Name HVAC (NRF) : Not used
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_NRF_GROUP_NUMBER"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "NRF varegruppe"
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Varegruppe 3"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value
 Default : -
 Mandatory/optional : Mandatory for NRF/ Optional for EFO
 Explanation : -

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_NRF_GROUP_NUMBER</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Varegruppe 3</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>1001000 - Sorte gjengede stålrør</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
  
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_DIMENSION_DESCRIPTION"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Dimensjon/størrelse"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text, max. 60 characters
 Default : -
 Mandatory/optional : Optional
 Explanation : See section "NRF product names" in Norwegian country specific regulations in chapter 10

Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_NAME_DESCRIPTION"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Prod.navn og beskrivelse"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text, max. 60 characters
 Default : -
 Mandatory/optional : Mandatory
 Explanation : See section "NRF product names" in Norwegian country specific regulations in chapter 10

Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_ADDITIONAL_TEXT"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Tilleggsopplysninger"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text, max. 40 characters
 Default : -
 Mandatory/optional : Optional
 Explanation : See section "NRF product names" in Norwegian country specific regulations in chapter 10

Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_MANUFACTURER_PRODUCT_NAME"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Produsentens varetekst"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : free text
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_MANUFACTURER_PRODUCT_NAME</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Produsentens varetekst</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>1/4" SORTER GJENGEDE STÅLRØR, SVEISTE NS 5587</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
  
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_HAS_BATCHNUMBER"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Batchnummer"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : "true" or "false"
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_HAS_BATCHNUMBER</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Batchnummer</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_VOLUME"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Volum per prisenheth"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = DMQ
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : Number value
 Default : -
 Mandatory/optional : Optional
 Explanation : Product volume per price unit in cubic decimeter.

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_PRODUCT_VOLUME</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Volum per prisenheth</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>20.60</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_NUMERIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>DMQ</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
  
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_SEGMENT"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Fagområde"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : VVS, VA, Industri, Offshore/Marine, Verktøy/Verneutstyr, VVS/VA, Samferdsel
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_PRODUCT_SEGMENT</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Fagområde</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT>Industri</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_ENVIRONMENT_SURCHARGE"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Miljøavgift"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : "true" or "false"
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example : -

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_ENVIRONMENT_CERTIFICATION"
 Name electrical (EFO) : Not used
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Miljømerket"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : "true" or "false"
 Default : -
 Mandatory/optional : Optional
 Explanation : -

 Example : -

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PACKING_UNIT_IRRELEVANT"
Name electrical (EFO)	: Not used
Name HVAC (NRF)	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Forpakning ikke relevant"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: m-pak; d-pak; t-pak
Default	: False
Mandatory/optional	: Mandatory
Explanation	: Indicates that the packing unit is not relevant for this product. The value must be the name of the packing unit that is absent. Possible values are "m-pak", "d-pak" or "t-pak". This characteristic must be repeated once for each packing type that is irrelevant. For each packing type that is not referenced, a value of false is assumed and the relevant packing type must be provided

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_PACKING_UNIT_IRRELEVANT</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Forpakning ikke relevant</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT>m-pakt</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_SELECT>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PACKING_UNIT_PALLET"
Name electrical (EFO)	: Not used
Name HVAC (NRF)	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Leveres på Europall"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: "true" or "false"
Default	: -
Mandatory/optional	: Optional
Explanation	: Indicates that the packing unit is delivered on an Euro pallet. Use the element UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN to reference the packing unit this applies to. At the moment, only T-pak is supported, but other packing types may be added later

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_PACKING_UNIT_PALLET</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Leveres på Europall</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>true</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>

```

Code : UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "NO_PRODUCT_UNAVAILABLE"
 Name electrical (EFO) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Ikke tilgjengelig"
 Name HVAC (NRF) : UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "Ikke klart for salg"
 Value type : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN
 Unit : UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
 Reference GTIN : UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
 Possible values : "true" or "false"
 Default : -
 Mandatory/optional : Optional
 Explanation : -

Example:

```

<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>NO_PRODUCT_UNAVAILABLE</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>Ikke tilgjengelig</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>>false</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_BOOLEAN>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
  
```

n. PL - POLAND

Code	: UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE = "PL_PKWIU"
Name	: UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME = "PKWIU 2015"
Value type	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING
Unit	: UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE = not relevant
Reference GTIN	: UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN = not relevant
Possible values	: free text, max. 4000 characters
Default	: -
Mandatory/optional	: Mandatory
Explanation	: Should contain the PKWIU code related to the product

Example:

```
<UDX.EDXF.PRODUCT_CHARACTERISTICS>
  <UDX.EDXF.PRODUCT_CHARACTERISTIC>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>PL_PKWIU</UDX.EDXF.PRODUCT_CHARACTERISTIC_CODE>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>PKWIU 2015</UDX.EDXF.PRODUCT_CHARACTERISTIC_NAME>
    <UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING> 27.51.15.0</UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_STRING>
  </UDX.EDXF.PRODUCT_CHARACTERISTIC>
</UDX.EDXF.PRODUCT_CHARACTERISTICS>
```

o. PT - PORTUGAL

No local PRODUCT_CHARACTERISTICS yet at this moment.

p. RU - RUSSIA

No local PRODUCT_CHARACTERISTICS yet at this moment.

q. SE - SWEDEN

No local PRODUCT_CHARACTERISTICS yet at this moment.

r. SI - SLOVENIA

No local PRODUCT_CHARACTERISTICS yet at this moment

s. SK - SLOVAKIA

No local PRODUCT_CHARACTERISTICS yet at this moment.

t. UK - UNITED KINGDOM

No local PRODUCT_CHARACTERISTICS yet at this moment.

12. Change Log to previous version

In this chapter, all relevant changes between versions of this guideline will be described.

a. Changes between version 3.0 and 3.1

- Subtree UDX.EDXF.SURCHARGE_LIST → UDX.EDXF.SURCHARGE
All elements of this subtree are now Optional, except UDX.EDXF.SURCHARGE_TYPE.
The transfer of surcharge information is quite complicated and differs in each country. So the data supplier should know what information (that means what elements of the ETIM BMEcat) he must send to the data receiver.
And in any case it must be possible, to validate the correctness of a statement Mandatory/Optional in the XSD file and the validation tool.
- The field length of the element MIME_TYPE is extended from 30 to 100 digits as MIME types exist already that are longer than 30 digits and that is not considered in the specification of BMEcat® 2005.
So this solution is not compliant to the specification of BMEcat® 2005 and the ETIM BMEcat could therefore be rejected in the certification acc. to the standard BMEcat® 2005.
- In the specification of BMEcat® 2005 it is forbidden to use a slash “/” for the attributed value of the element MIME_TYPE.
At the same time, the specification of BMEcat® 2005 the attributed are defined with a slash “/”.
So that is a mistake and we allow the slash “/” for the ETIM BMEcat.
This solution is also not compliant to the specification of BMEcat® 2005 and the ETIM BMEcat could therefore be rejected in the certification acc. to the standard BMEcat® 2005.
- The correct name of the REACH subtree is UDX.EDXF.REACH (and not UDX.EDXF.REACH.PRODUCT).
- The name of the element UDX.EDXF.REACH.LIST_DATE was corrected to UDX.EDXF.REACH.LISTDATE
- The correct name of the element “Value Added Tax ID” is VAT_ID in ETIM BMEcat.
- The new element Brand name (UDX.EDXF.BRAND_NAME) was added.
- The field length of the element “UDX.EDXF.DISCOUNT_GROUP_MANUFACTURER” was changed from 10 to 20.
- The field length of the element “UDX.EDXF.DISCOUNT_GROUP_SUPPLIER” was changed from 10 to 20.
- Adjustment of the explanation of the element UDX.EDXF.NETWEIGHT

- The subtree T_NEW_CATALOG → PRODUCT → PRODUCT_LOGISTIC_DETAILS → PRODUCT_DIMENSIONS was deleted because it described the data of a packed product. This information already exists in the subtree UDX.EDXF.PACKING_UNIT.
- Additional type for the element MIME_DESCR: MD99 “Others”.
- Recommendation for supplying URLs in chapter 3b.
- Updated the documentation for UDX.EDXF.COUNTRY_BRANCH_NUMBERS and UDX.EDXF.COUNTRY_BRANCH_SUPPLIER_IDS in order to identify the attributes used by the XSD file correctly.

b. Changes between version 3.1 and 4.0

- The new transaction T_NEW_PRODUCTDATA is added.
- Recommended is now the use of the UTF-8 character set.
- The reference to the XSD schema is added as mandatory (chapter 4a).
- The type “gln” for the element BUYER_ID is added in the Header section.
- The type “iln” for the element SUPPLIER_ID is changed to the new correct type “gln”.
- The MIME information on product level is changed from its previous location T_NEW_CATALOG → PRODUCT → MIME_INFO to a new subtree UDX.EDXF.MIME_INFO. The previous elements MIME_TYPE, MIME_DESCR and MIME_PURPOSE are deleted.
- The information about the coded MIME description on product level is moved from the element MIME_DESCR to the new element UDX.EDXF.MIME_CODE. A new element UDX.EDXF.MIME_DESIGNATION for a free text description.
- Several MIME codes for the new element UDX.EDXF.MIME_CODE have been added (element MIME_DESCR in version 3.1 of these Guideline):
codes MD37 to MD 56
code MD36 is deleted
- The data type of the elements UDX.EDXF.COUNTRY_BRANCH_NUMBER and UDX.EDXF.COUNTRY_BRANCH_SUPPLIER_ID has been changed from dtNUMBER to dtINTEGER.
- The type “upc” for the element INTERNATIONAL_PID is added.
- The element UDX.EDXF.PKWIU is deleted. The new solution is to give this information in the new subtree PRODUCT_CHARACTERISTICS.

- The element UDX.EDXF.DECLARATION is deleted. The new solution is to give this information in the new subtree PRODUCT_CHARACTERISTICS.
- The element UDX.EDXF.AT.REVERSE_CHARGE_INFO is deleted. The new solution is to give this information in the new subtree PRODUCT_CHARACTERISTICS.
- The new element UDX.EDXF.PACKING_PARTS is added.
- For version 3.1 of the Guideline, the explanation of the element UDX.EDXF.NETWEIGHT has been changed without adjusting the related examples (Country specific regulations for Germany - Cables). This was now done.
- In addition to the already existing element UDX.EDXF.NETWEIGHT, 5 other dimensional elements are added:
 UDX.EDXF.NETVOLUME
 UDX.EDXF.NETLENGTH
 UDX.EDXF.NETWIDTH
 UDX.EDXF.NETDEPTH
 UDX.EDXF.NETDIAMETER
 - A new subtree UDX.EDXF.PRODUCT_ETIM_DYNAMIC is added.
 - A new subtree UDX.EDXF.PRODUCT_FEATURES_MC is added.
 - A new subtree PRODUCT_CHARACTERISTICS is added (chapter 5m).
 - The new element REFERENCE_DESCR is added in the subtree PRODUCT_REFERENCE.
 - All relevant data types are now defined in the ETIM BMEcat Guidelines (chapter 8).
 - The table for order-, quantity- and packing units had been separated in 2 tables and some units have been added:
 - order- and quantity units
 - packing units
 - Some changes have been made in the country specific chapter 10.
 - Chapter 11 has been added with country specific PRODUCT_CHARACTERISTICS

c. Changes between version 4.0 and revision 4.0.2

- Revision 4.0.2 includes an earlier (non-published) revision 4.0.1, concerning some schema changes already implemented in the ETIM BMEcat validation tool for tighter validation with the XSD.
- Several small/insignificant textual, style, content and chapter reference corrections in the document.
- Some element names in document were not consistent with XSD.

- Updated country codes in XSD in line with ISO 3166-1:2013
- Added missing MIME codes MD55 and MD56 to XSD
- Corrected currency code for Czech Koruna in dtCurrencies (was CSK, should be CZK, error in BMEcat 2005)
- Added DYNAMIC as allowed value for REFERENCE_FEATURE_SYSTEM_NAME.
- Added explanation on the proper use of the non-existing 'dummy' class code EC000000 if no fitting ETIM class is available
- Changed data type for elements PRICE_QUANTITY, QUANTITY_MIN, QUANTITY_INTERVAL to dtINTEGER. Also in element UDX.EDXF.SURCHARGE changed consistently to dtINTEGER.
- UDX.EDXF.MIME_FILENAME made optional and changed to dtMLSTRING(00250)
- Defined datatype typeGTIN in guidelines and changed fields UDX.EDXF.GTIN and UDX.EDXF.PRODUCT_CHARACTERISTIC_REFERENCE_GTIN accordingly.
- Corrected reference to CONTENT_UNIT and ORDER_UNIT to dtUNIT in document as in XSD (was dtPUNIT)
- Added missing units D99, KTM, TNE and WEE to list with allowed order- and quantity units; Added missing units EV, CY and WR to list with allowed packing units. Made document consistent with XSD.
- Added new countries Portugal, Slovakia and Slovenia to documentation.
- Added extra explanation to UDX.EDXF.PRODUCT_ETIM_RELEASE_DATE
- Changed UDX.EDXF.PRODUCT_CHARACTERISTIC_VALUE_UNIT_CODE from dtUNIT to dtSTRING to allow more units than just the subset of UN/ECE CEFAC Trade Facilitation Recommendation No.20.
- Redefined Range feature type in chapter 5.c
- Added extra country specific regulations for Poland and the Netherlands
- Added PRODUCT_CHARACTERISTICS for the Netherlands, also some corrections in existing PRODUCT_CHARACTERISTICS for the Netherlands.