TRADEBYTE

CHANNEL BASICS PART 2

PRODUCT DATA EXPORT VIA TB.CAT 1.2

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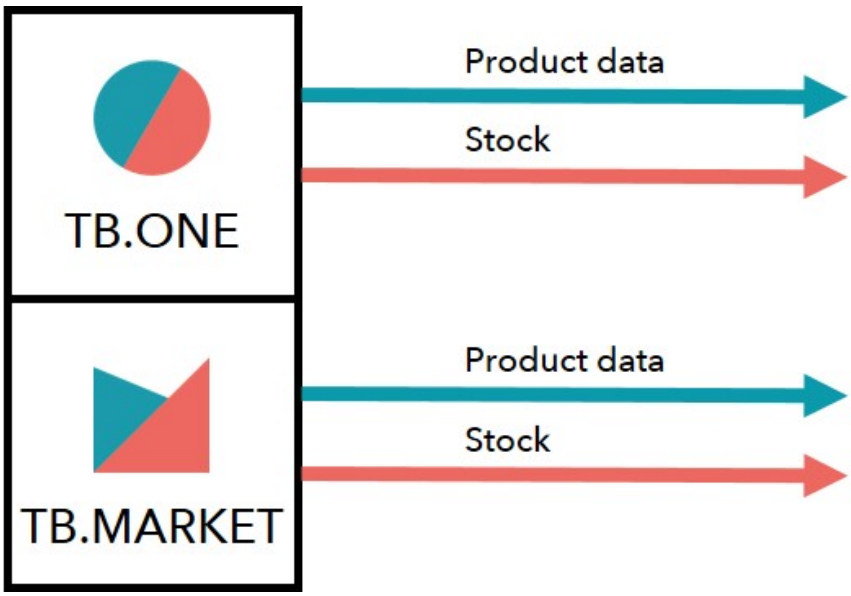
1. DOCUMENT PURPOSE AND AIM

This document is intended for operators of marketplaces and platforms. It describes the product data export of TB.One or TB.Market to the channel.



The documentation for the connection of channels includes the following parts:

- Part 1: Definitions and Process Overview
  This document defines the terminology used at Tradebyte and in TB.One.
- **Part 2: Product Data Exchange via TB.Cat**
  Naming conventions and field descriptions for XML files in the Tradebyte standard "TB.Cat".
- Part 3: Order Data Exchange via TB.Order
  Naming conventions for XML files in Tradebyte standard "TB.Order", field descriptions of the TB.Order and a guideline for message transfer (delivery, returns, cancellations).

2. DATA EXCHANGE WITH TB.ONE

The product data exchange between TB.One/TB.Market and the channel takes place via an XML file in the Tradebyte standard TB.CAT. The transmission takes place via a REST interface, where you retrieve product data catalogs and inventories directly from a TB.Market or TB.One. Generally you will receive a part of the TB.CAT.xml as a result which you can continue processing. Please agree with your Tradebyte contact upon the data exchange. Here you will also receive your login details.

Please note that extensions of the interface are reserved. We are committed to providing you and our TB.One partners the greatest scope, therefore, enhancement of the interface may be necessary. Higher releases are normally compatible to former releases.

Time stamps are in general in the time stamp format "Unix timestamp", i.e. seconds since 01.01.1970 00:00 UTC.

The currently valid schema file can be found here:

```
https://api.core.tradebyte.com/schema/all_in_one/tb-cat_1_2_all_in_one.xsd
```

For a pure stock update, the TB.Stock scheme is available. The valid scheme file is:

```
https://api.core.tradebyte.com/schema/all_in_one/tb-stock_all_in_one.xsd
```

2.1 CALLING THE REST INTERFACE

You can get product catalogs and inventory changes via REST-interface of TB.One. Basic structure of a REST-URI:

```
https://rest.core.tradebyte.com/ACCOUNT-NR/TARGET/?channel=CHANNEL_ID[&filter=criterion]
```

The call of the REST interface requires the authentication by user name and password as well as the release of this user for the concerned channel in TB.One resp. TB.Market. To be able to execute REST calls, an API-user must be created in the called system (TB.One/TB.Market) and rights for requesting data of the appropriate channel must be assigned.

REQUIRED FIELDS

ABBREVIATION	DESCRIPTION
USR / PWD	User name and password for REST-access
ACCOUNT NO	Merchant number
TARGET	Specifies the resource group which the call is for. Here: products or article portfolio (articles/stock).
CHANNEL_ID	The channel ID is required and will be provided by your Tradebyte contact. In the example calls the ID is referenced with CHID. If the API user is not assigned to this channel-ID, a call is not possible.

RETURN VALUE

Basically, a REST call returns a message via XML. You either get the requested result or a status message, which is complemented by a status code in the HTTP-header to indicate the successful or unsuccessful processing.

In addition to the relevant content you have to consider the reported http-status-code (header):

- 200 (all codes beginning with 2xx): call/processing successful.
- 400 (all codes starting with 4xx): call not successful or request incorrect.
- 500 (all codes starting with 5xx): processing error.

2.2 REST CALLS

PRODUCT LISTS

METHOD	GET	Retrieves
TARGET	products	a complete product list (Full Load)
EXAMPLE	.../products/?channel=CHID	
RESPONSE	<TBCATALOG channel="chxx" creation="1359543069"> <SUPPLIER> <NAME>Dokuaccount</NAME> </SUPPLIER> <CLASSIFICATION></CLASSIFICATION> <PRODUCTDATA type="full"> <PRODUCT></PRODUCT> <PRODUCT></PRODUCT> ... </PRODUCTDATA> </TBCATALOG>	

METHOD	GET	Retrieves
TARGET	products	a list of products
PARAMETER	delta	from a recent change in **delta** (delta load)
EXAMPLE	.../products/?channel=CHID&delta=1359543069	
RESPONSE	<TBCATALOG channel="chxx" creation="1359543069"> <SUPPLIER></SUPPLIER> <PRODUCTDATA> <PRODUCT></PRODUCT> <PRODUCT></PRODUCT> ... </PRODUCTDATA> </TBCATALOG>	

INVENTORY LISTS

METHOD	GET	Retrieves
TARGET	stock	an inventory list for the specified channel (Full Load)
EXAMPLE	.../stock/?channel=CHID	
RESPONSE	<TBSTOCK changedate="1359705447"> <ARTICLE> <A_NR>4688-pi-42</A_NR> <A_STOCK>10</A_STOCK> </ARTICLE> ... </TBSTOCK>	

METHOD	GET	Retrieves
TARGET	stock	a list of products
PARAMETER	delta	from a recent change in **delta** (delta load)
EXAMPLE	.../products/?channel=CHID&delta=1359543069	
RESPONSE	<TBSTOCK changedate="1359706621"> <ARTICLE> <A_NR>4689olxxl</A_NR> <A_STOCK>5</A_STOCK> </ARTICLE> </TBSTOCK>	

PRICE LISTS

Prices may not only be provided by means of a full product data export but you as a channel may retrieve changed price data also by just calling a price feed (full or delta).

METHOD	GET	Retrieves
TARGET	prices	an inventory list for the specified channel (Full Load)
EXAMPLE	.../prices/?channel=CHID	
RESPONSE	<TBPRICES changedate="1359705447"> <ARTICLE> <A_NR>4688-pi-42</A_NR> <A_PRICEDATA> <A_PRICE channel="CHID" currency="EUR"> <A_VK>69.97</A_VK> <A_VK_OLD>89.95</A_VK_OLD> <A_UVP>99.95</A_UVP> <A_MWST>2</A_MWST> <A_EK>38.32</A_EK> </A_PRICE> </A_PRICEDATA> </ARTICLE> ... </TBPRICES>	

METHOD	GET	Retrieves
TARGET	prices	an inventory list for the specified channel
PARAMETER	delta	starting from a last change **delta**
EXAMPLE	.../stock/?channel=CHID&delta=1359705447	
RESPONSE	<TBPRICES changedate="1359706621"> <ARTICLE> <A_NR>4688-pi-42</A_NR> <A_PRICEDATA> <A_PRICE channel="CHID" currency="EUR"> <A_VK>69.97</A_VK> <A_VK_OLD>89.95</A_VK_OLD> <A_UVP>99.95</A_UVP> <A_MWST>2</A_MWST> <A_EK>38.32</A_EK> </A_PRICE> </A_PRICEDATA> </ARTICLE> ... </TBPRICES>	

3. CONTENT OF FULL AND DELTA LOADS

Full and delta loads are possible for both product as well as inventory data. Full loads contain the complete inventory of data that is valid at the time of retrieval, delta loads contain the changes made since the last call.

A **product data catalog** can include all valid products, including all applicable articles ("full") or only modified products and articles ("delta"). A delta load provides complete data per included product (including all possible variants), but only articles that have changed since the last time stamp. Not modified products are not included in a delta load and don't need to be processed further.

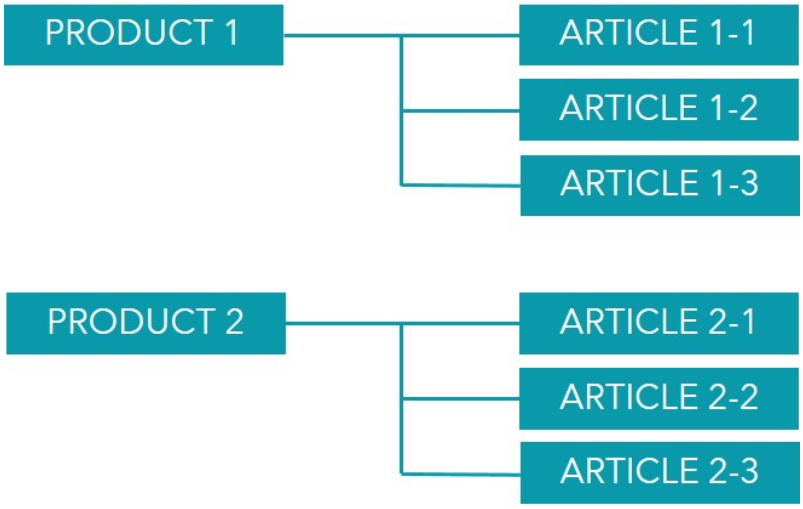
An **inventory data catalog** contains either the stock of all products valid at the time of retrieval and included in the last product catalog ("full") or only the inventory changes since the last polling time ("delta").

A full load of product data is allowed once a day. A full load of inventory data is permitted only once an hour in the standard. Please agree with your Tradebyte contact upon the time of full load.

4. DEPLOYMENT LOGIC FOR PRODUCT AND ARTICLE DATA

Regardless of the deployment type ("full" or "delta"), the provided TB.CAT always includes the fully available information for a product valid at the time of retrieval.

In the subsequent processing you have therefore the duty, to consider any information not contained or modified and to add any newly added information. In a product all associated articles and all descriptive information for this product are included. Here's a schematic view:



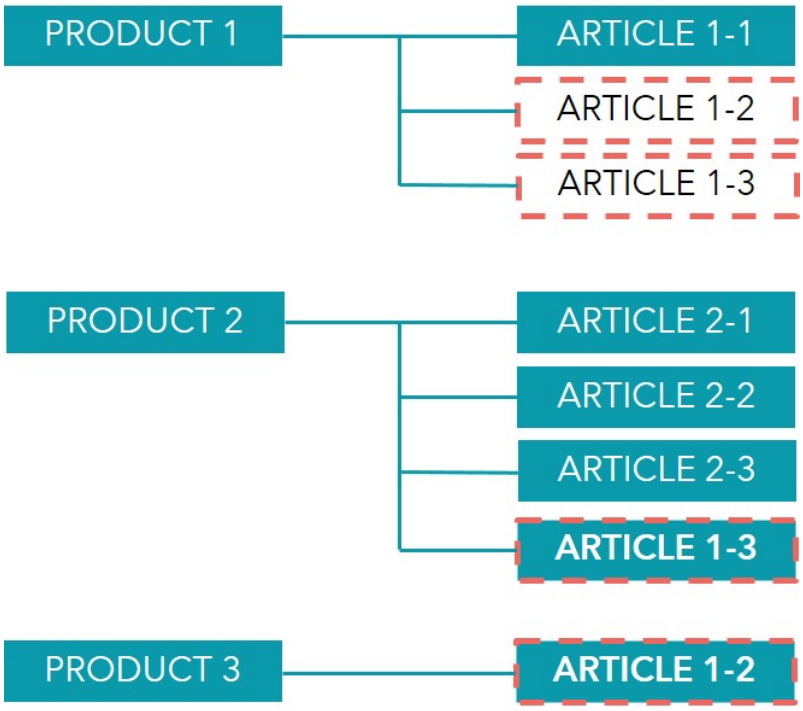
4.1 UNIQUE REFERENCE / IDENTIFICATION OF PRODUCTS AND ARTICLES

A product can be clearly identified by means of the product ID (P_NR). This is the internal database ID that is assigned to this product during creation. The database ID is assigned once. In addition, you may optionally receive the product number of the data provider (P_NR_EXTERNAL) which may theoretically be modified by the data provider. From the combination of P_NR and P_NR_EXTERNAL a change can be derived.

The same logic is used at article level. When creating an article a unique article ID (A_ID) will be assigned. Additionally, you receive the article number (A_NR) of the data supplier which may theoretically be modified by the data provider.

4.2 MOVING EXISTING ARTICLES

An article can be assigned to only one product at a time. However, it is possible that the data provider shifts existing articles in either a different product or disperses the variants of a product in whole or in part to one or more new products.



4.3 PRODUCT DATA IN "FULL LOAD"

A product data catalog in "full load" contains all products and their associated articles valid at the time of retrieval. The data must be interpreted analogously to the logic presented in the chapter "Deployment Logic for Product and Article Data[15]". At a call you will receive a file according to the following scheme:

```
<TBCATALOG channel="chxx" creation="1359554835">          <!-- Creation timestamp -->
    <PRODUCTDATA type="full">                             <!-- Call mode "Full-Load" -->
    <!-- delta request control: 0 -->
        <Product 1>
            <Article 1-1>
            <Article 1-2>
            <Article 1-3>
        <Product 2>
            <Article 2-1>
            <Article 2-2>
            <Article 2-3>
    </PRODUCTDATA>
</TBCATALOG>
```

The creation time (attribute "creation" at the TBCATALOG element) to use as time stamp for the filter attribute "delta" at the next request of a delta load.

A full load is per default only permitted once a day. Please agree with your Tradebyte contact upon the time of full load.

4.4 PRODUCT DATA IN "DELTA LOAD"

If the product data catalog is retrieved as delta load, only those products are provided that have changed since the specified timestamp "delta". A delta load provides complete products including all currently assigned and valid articles and must be interpreted according to the logic described in chapter "Deployment Logic for Product and Article Data [15]".

At a call you will receive a file according to the following scheme:

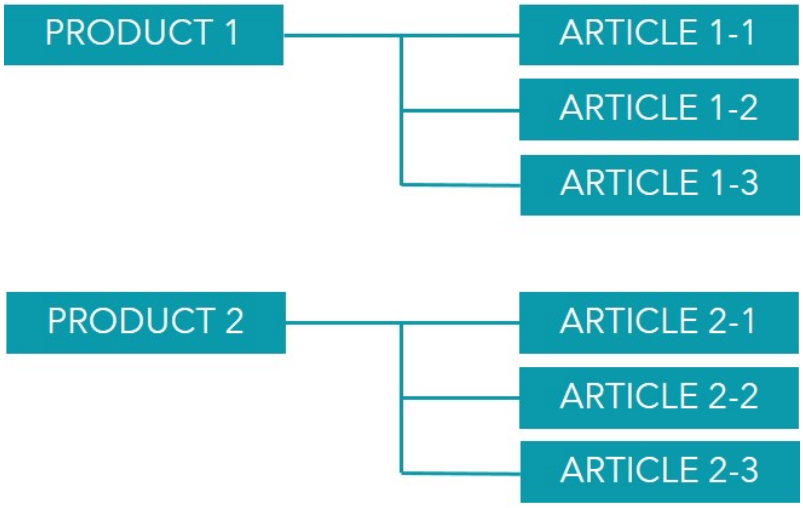
```
<TBCATALOG channel="chxx" creation="1359555698">          <!-- Creation timestamp -->
        <PRODUCTDATA type="delta">                        <!-- Call mode "Delta-Load" -->
        <!-- delta request control: 1359554835            <!-- requested timestamp -->
                <Product 1>
                        <Article 1-1>
                        <Article 1-2>
                        <Article 1-3>
                        <Article 1-4>
        </PRODUCTDATA>
</TBCATALOG>
```

For this example, the starting point is that only the "Product 1" has been changed in the meantime.

Please always transfer the creation timestamp of the previous TB.Cat product data retrieval at the next "delta" call. Here it is absolutely irrelevant whether the last product data retrieval was a full or a delta load.

4.5 EXAMPLE CONSTELLATION FOR PRODUCT DATA IN FULL/DELTA LOAD

The starting point is the example from the chapter "Deployment Logic for Product and Article Data [15]". Grayed products/articles are activated, white products/articled are disabled.

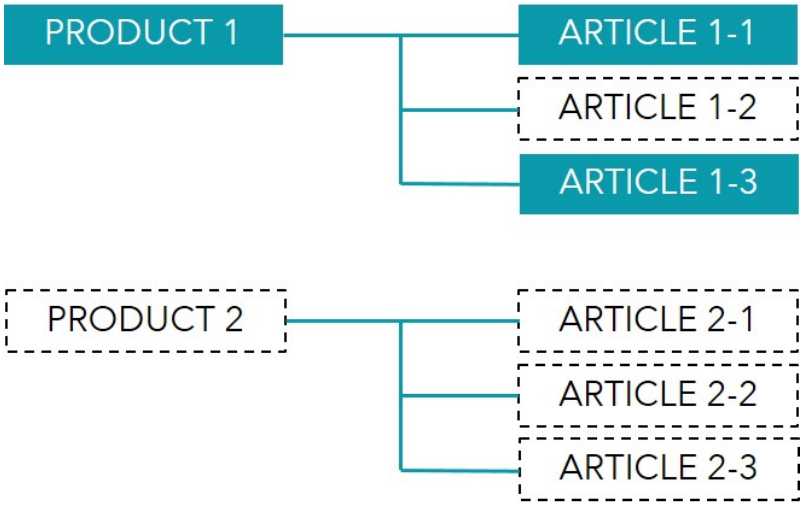


In the corresponding full load, you receive (schematic representation):

```
<TBCATALOG channel="chxx" creation="1359554835">          <!-- Creation timestamp -->
    <PRODUCTDATA type="full">                             <!-- Call mode "Full-Load" -->
    <!-- delta request control: 0 -->
        <Product 1>
            <Article 1-1>
            <Article 1-2>
            <Article 1-3>
        <Product 2>
            <Article 2-1>
            <Article 2-2>
            <Article 2-3>
    </PRODUCTDATA>
</TBCATALOG>
```

PRODUCT DATA CATALOG WITH CHANGE OF PRODUCT DATA

Before delivery of the next catalog, the deactivated the article 2 in product 1 and the complete product 2.



Depending on whether the next product data retrieval is in full or delta load, you will get different results.

OPTION 1: DELTA LOAD

The subsequently provided delta load will contain (schematic representation):

```
<TBCATALOG channel="chxx" creation="1359555698">
        <PRODUCTDATA type="delta">
        <!-- delta request control: 1359554835 -->
                <Product 1>
                        <Article 1-1>
                        <Article 1-3>
                <Product 2 mode="delete">
        </PRODUCTDATA>
</TBCATALOG>
```

Please note that here the articles 1-2 is implicitly disabled. Only at completely disabled products the deletion is communicated explicitly in the feed.

The node for the deleted product only contains the product number to identify the product:

```
<PRODUCT mode="delete">
    <P_NR>2712</P_NR>
</PRODUCT>
```

OPTION 2: FULL LOAD

The provided full load shows the change implicitly and then contains (schematic representation):

```
<TBCATALOG channel="chxx" creation="1359555698">
    <PRODUCTDATA type="full">
    <!-- delta request control: 0 -->
        <Product 1>
            <Article 1-1>
            <Article 1-3>
    </PRODUCTDATA>
</TBCATALOG>
```

No longer provided products/articles of a full load must be disabled/deleted. They are not listed explicitly!

PRODUCT DATA CATALOG WITHOUT PRODUCT DATA CHANGE

If there are no changes until the next polling time, the requested delta load provides an empty catalog:

```
<TBCATALOG channel="chxx" creation="1359556548">
    <PRODUCTDATA type="delta">
    </PRODUCTDATA>
</TBCATALOG>
```

A full load would again contain all products and articles valid at the time of retrieval and would accordingly be identical in content to the catalog in the section "Option 2: Full Load 21".

5. DEPLOYMENT LOGIC OF INVENTORY INFORMATION

The inventory data is always exported on the basis of the articles sent to you, i.e. you only get inventory information when this article has already been exported with the product data and also could still be interpreted as valid in the last export. Inventory data can also be retrieved as full or delta load.

5.1 INVENTORY DATA IN "FULL LOAD"

The retrieval of stock data in "full load" contains all articles valid at the time of retrieval based upon the currently valid product data provision. At a call you will receive a file according to the following scheme:

```
<?xml version="1.0" encoding="UTF-8"?>
<TBSTOCK changedate="1378374296">                    <!-- creation timestamp -->
    <ARTICLE>
        <A_NR>2700000022XL</A_NR>
        <A_STOCK>19</A_STOCK>
    </ARTICLE>
    <ARTICLE>
        <A_NR>2700000022L</A_NR>
        <A_STOCK>47</A_STOCK>
    </ARTICLE>
</TBSTOCK>
```

The creation time of the last inventory data retrieval is to be used as value for "delta" when retrieving a delta load. An exception is when product data is retrieved in "full" mode. Please note here the chapter "Processing Sequence of Full/Delta Loads 24".

A full load of inventory data is by default permitted only once an hour. Please agree with your Tradebyte contact upon the time of full load.

5.2 INVENTORY DATA IN "DELTA LOAD"

If the inventory data are retrieved as delta load, only article stocks are delivered that have been changed since the specified timestamp "delta". At a call you will receive a file according to the following scheme:

```
<?xml version="1.0" encoding="UTF-8"?>
<TBSTOCK changedate="1378374296">
        <ARTICLE>
                <A_NR>2700000022XL</A_NR>
                <A_STOCK>0</A_STOCK>                    <!-- Article sold out-->
        </ARTICLE>
        <ARTICLE>
                <A_NR>2700000022L</A_NR>
                <A_STOCK>47</A_STOCK>
        </ARTICLE>
</TBSTOCK>
```

Please always transfer the creation timestamp of the previous stock retrieval at the next "delta" call. Here it is absolutely irrelevant whether the last inventory data retrieval was a full or a delta load. An exception is when product data has been retrieved in "full" mode in the meantime. Please note here the chapter "Processing Sequence of Full/Delta Loads 24".

The retrieval of new inventory data (delta load) is allowed (in the standard) up to a maximum frequency of 15 minutes.

6. PROCESSING SEQUENCE OF FULL/DELTA LOADS

In general, the retrieved product data and inventory information is complete and must be processed in the order in which they were created and passed on. This can be fixed by means of the given timestamp.

```
<TBSTOCK changedate="1378374296">
```

or

```
<TBCATALOG channel="chxx" creation="1359555698">
```

As inventory information will be explicitly included in the product data, the following principles apply to the sequence of processing:

- Delta loads must always be fully processed in the order of creation.
- A later retrieved full load supersedes all previously retrieved delta exports of the same type of poll, i.e. a full load of stock information supersedes all previously retrieved delta inventory loads.
- A full load of the complete product data always replaces all previously retrieved delta loads regardless of whether product or stock information was retrieved in the delta loads.

7. REFERENCING OF DATA

The transmitted data can be passed in TB.Cat with different types of referencing. The main distinction is the way in which this information can then be re-interpreted or are to be interpreted. Currently, we distinguish three types of referencing:

7.1 KEY

The transferred information is exchanged based on a defined key. This is indicated by the given attribute "identifier=key". The key to interpret is then defined as an attribute in the form "key=defined key". The actual content is transferred as an XML value if it is relevant to the given information (e.g. for components).

This type of referencing is always used when the receiver of the data will assign and interpret the information accurately.

```
<P_BRAND identifier="key" key="supjam" />
<P_COMPONENTDATA>
	<P_COMPONENT identifier="key" key="width">
		<VALUE xml:lang="x-default">30cm</VALUE>
	</P_COMPONENT>
	<P_COMPONENT identifier="key" key="color">
		<VALUE xml:lang="x-default">Grün</VALUE>
	</P_COMPONENT>
</P_COMPONENTDATA>
<P_TAGS>
	<P_TAG identifier="key" key="gender">
		<VALUES>
			<VALUE identifier="key" key="male" />
		</VALUES>
	</P_TAG>
</P_TAGS>
```

7.2 NAME

The transferred information is provided based on the name (designation) which the sender defined. This is indicated by the given attribute "identifier=name". The identifier/name will be indicated with the attribute "key=<Name/Designator>". The actual content is transferred as an XML value if it is relevant to the given information.

This type of referencing is used when the receiver receives data which can be assigned by means of the transferred area (component, attribute, brand) but any information can/should not be interpreted accurately.

```
<P_BRAND identifier="name" key="Superjackenmeister" />
<P_COMPONENTDATA>
	<P_COMPONENT identifier="name" key="Breite">
		<VALUE xml:lang="x-default">30cm</VALUE>
	</P_COMPONENT>
	<P_COMPONENT identifier="name" key="Farbe">
		<VALUE xml:lang="x-default">Grün</VALUE>
	</P_COMPONENT>
</P_COMPONENTDATA>
<P_TAGS>
	<P_TAG identifier="name" key="Geschlecht">
		<VALUES>
			<VALUE identifier="name" key="Herren" />
		</VALUES>
	</P_TAG>
</P_TAGS>
```

7.3 ID

The provided information is transmitted based on the database ID of the sender. This is indicated by the given attribute "identifier=id". The database ID is then indicated with the attribute "key=<DB_ID>". The actual content is transferred as an XML value if it is relevant to the given information.

In addition, you get an appropriate CLASSIFICATION part for all the nodes that are indicated as ID-based. This is included as a table of contents at the beginning of the TB.Cat.xml. This CLASSIFICATION lists the used database IDs together with the name defined by the sender for each node (components, attributes, etc.).

This type of referencing is used when the transmitter is the leader for the transfer of information. Normally, this can only be used when there is only one data provider, since the same information is communicated with different IDs for different sender.

```
<PRODUCTDATA type="full">
        <PRODUCT>
        ...
                <P_BRAND identifier="id" key="577">Superjackenmeister</P_BRAND>
                <P_COMPONENTDATA>
                        <P_COMPONENT identifier="id" key="4">
                                <VALUE xml:lang="x-default">100% Jackenmaterial</VALUE>
                        </P_COMPONENT>
                </P_COMPONENTDATA>
                <P_TAGS>
                        <P_TAG identifier="id" key="55" name="Geschlecht">
                                <VALUES>
                                        <VALUE identifier="id" key="1953">Herren</VALUE>
                                </VALUES>
                </P_TAG>
        ...
```

8. MULTILINGUALISM

The TB.Cat is able to provide multiple language information (translations, etc.) for a product. For each multilingual maintainable information (component, product title, etc.) you will get in addition to just this value a language tag in the attribute "xml:lang", from which results the respective language. At least one language is always transferred.

```
<P_COMPONENT identifier="key" key="wid" name="Länge">
        <VALUE xml:lang="x-default">110 cm</VALUE>
        <VALUE xml:lang="en-us">43.31 in</VALUE>
</P_COMPONENT>
```

This form of representation is true even if the data is delivered in one language only:

```
<P_COMPONENT identifier="key" key="wid" name="Länge">
        <VALUE xml:lang="x-default">110 cm</VALUE>
</P_COMPONENT>
```

9. STRUCTURE OF PRODUCT DATA AT THE TB.CAT EXPORT

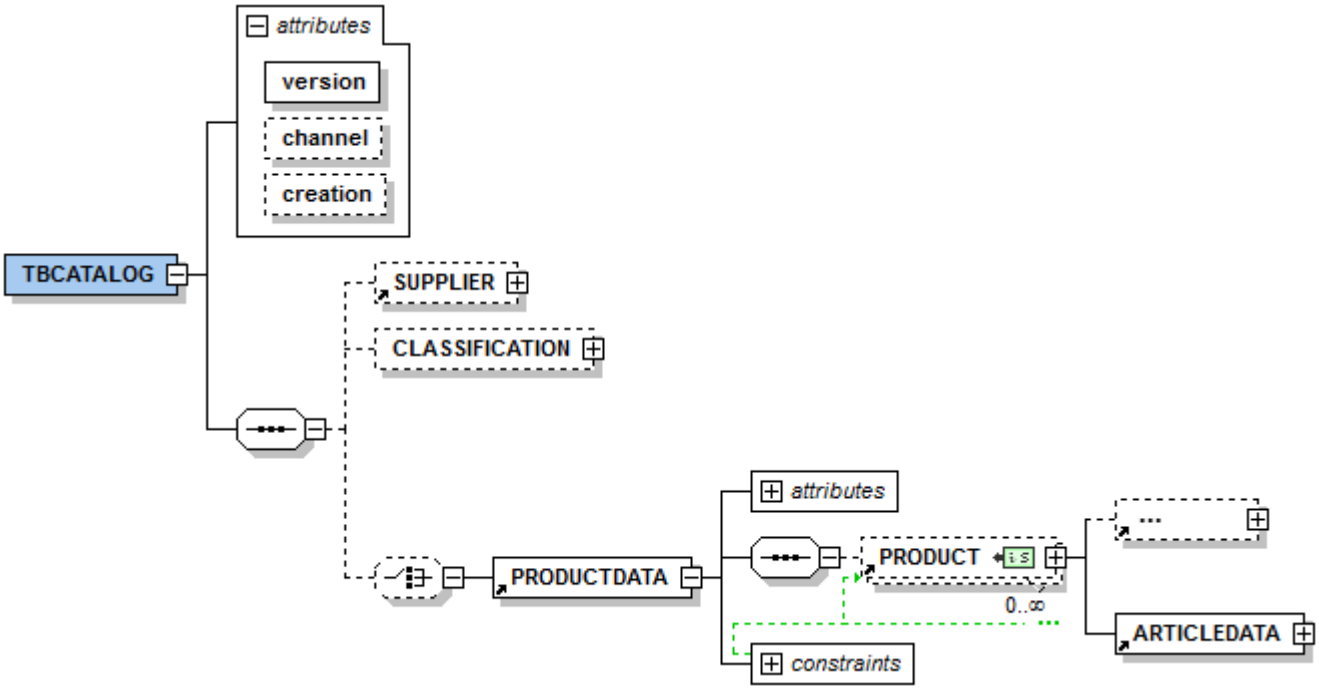
The following text describes the nodes which can be transferred within an exported product data catalog. Greyed out fields are not relevant for the export and are only mentioned due to completeness. The examples of the nodes contain examples for monolingual and multilingual export. The transfer is not mixed! If the export contains several languages, all elements that can be translated are provided with translation.

Please regard the visualisation of the fields concerning mandatory and optional nodes! In screenshots, solid lines indicate a mandatory information, dotted lines indicate optional information. Within the following chapters, the declaration of mandatory and optional fields exclusively refers to the respective node and not on the overall XSD.

Example:

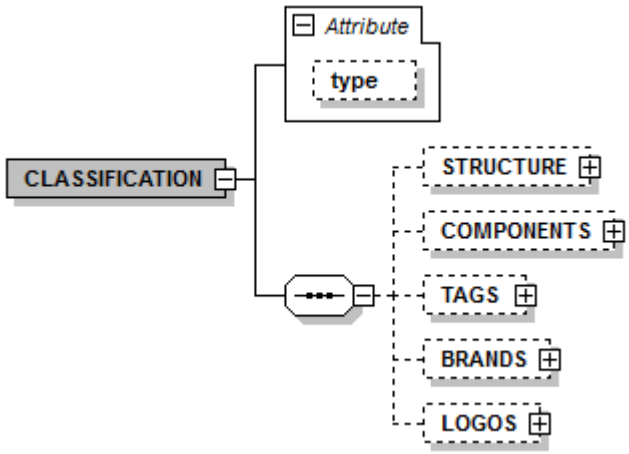
At "TBCATALOG [29]" the "PRODUCTDATA" is shown with solid line. That means, that this is mandatory. But one level above, the whole node, which includes the "PRODUCTDATA", is indicated as optional using a dotted line. As result this means: if the optional node is provided, the included "PRODUCTDATA" is mandatory. Another level above, the whole node, which lists <SUPPLIER>, <CLASSIFICATION> and <PRODUCTDATA>, is also mandatory. For all sub-nodes are optional, this means: <TBCATALOG> needs at least one of the nodes <SUPPLIER>, <CLASSIFICATION> or <PRODUCTDATA>.

9.1 TBCATALOG



NODE	MUST	DATA TYPE	DESCRIPTION
<?xml version="1.0" encoding="UTF-8"?>	Y	XML	Coding of the export file, currently always UTF-8
TBCATALOG	Y	XML	Root node
version	Y	XML	TB.Cat version, here 1.2
SUPPLIER	N	XML	Information to the data supplier, if several
CLASSIFICATION 30	N	XML	Classification part for the ID definition of the category tree, components, attributes, brands and logos if it is referenced by IDs (see chap.7 25).
PRODUCTDATA 35	N	XML	Product data
ARTICLEDATA 52	N	XML	Article data. At this export type, articles will always be associated with product data.

9.2 TBCATALOG / CLASSIFICATION



The classification part optionally contains lists with categories, components, attributes, brands and logos. If the product data refers to those data via an ID, this node is transferred. If the data is referred to by means of a key, the classification data is dropped and the key of the receiver is transferred within the product data (see also chap.7.3 27).

Please regard that this chapter refers to the elements that may be provided to you by means of a TB.Cat export. To provide your categories, values list and mandatory values

for the merchants, the separate manual “Classification Push” (No.1003) is available.

NODE	MUST	DATA TYPE	DESCRIPTION
attributes/type	N	XML	Only relevant for the import
STRUCTURE	N	XML	Category tree; In a tree structure of categories the PARENT_ID identifies the structure, i.e. the next higher-level category. In a flat category structure, the PARENT_ID is always 0.
COMPONENTS	N	XML	Properties with user-defined values
TAGS	N	XML	Properties with values from a value list
BRANDS	N	XML	Brand list
LOGOS	N	XML	Logo/Icon list
ATTRIBUTE_SETS	N	XML	Mandatory and optional values per category
SUB_SUPPLIERS	N	XML	Previous suppliers (referring to product data)

Example-XML

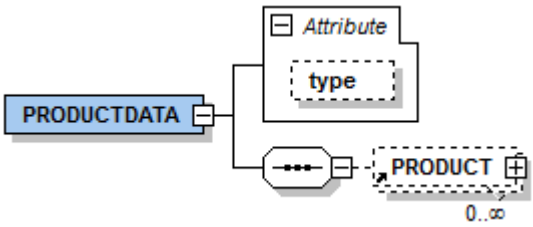
```
<CLASSIFICATION>
        <STRUCTURE id="1">
                <STRUCTURE_ITEM>
                        <KEY>11</KEY>
                        <NAME>Accessoires</NAME>
                        <PARENT_ID>0</PARENT_ID>
                        <SORT>0</SORT>
                </STRUCTURE_ITEM>
                ...
                <STRUCTURE_ITEM>
                        <KEY>12</KEY>
```

```
                    <NAME>Badmöbel</NAME>
                    <PARENT_ID>0</PARENT_ID>
                    <SORT>0</SORT>
                </STRUCTURE_ITEM>
            </STRUCTURE>
            <COMPONENTS>
                <COMPONENT>
                    <KEY>color</KEY>
                    <NAME>Farbe</NAME>
                </COMPONENT>
                ...
                <COMPONENT>
                    <KEY>material</KEY>
                    <NAME>Material</NAME>
                </COMPONENT>
            </COMPONENTS>
            <TAGS>
                <TAG>
                    <KEY>design</KEY>
                    <NAME>Design</NAME>
                    <VALUES>
                        <VALUE>
                            <ID>1</ID>
                            <KEY>1</KEY>
                            <NAME>retro</NAME>
                        </VALUE>
                        <VALUE>
                            <ID>2</ID>
                            <KEY>451</KEY>
                            <NAME>klassisch</NAME>
                        </VALUE>
...
```

```
                    </VALUES>
                </TAG>
...
        </TAGS>
        <BRANDS>
                <BRAND>
                    <KEY>VCM</KEY>
                    <NAME>VCM</NAME>
                </BRAND>
...
                <BRAND>
                    <KEY>supjam</KEY>
                    <NAME>Superjackenmeister</NAME>
                </BRAND>
        </BRANDS>
        <LOGOS>
                <LOGO>
                    <ID>1</ID>
                    <KEY>60wasch</KEY>
                    <NAME>60° Wäsche</NAME>
                    <MEDIA type="logo" sort="0">http://www.imageserver.tld/123.jpg</MEDIA>
                </LOGO>
        </LOGOS>
        <ATTRIBUTE_SETS>
                <ATTRIBUTE_SET global="true">
                    <NAME>Wertemapping</NAME>
                    <ALLOW_OTHER_VARIANTS>true</ALLOW_OTHER_VARIANTS>
                    <ALLOW_OTHER_COMPONENTS>true</ALLOW_OTHER_COMPONENTS>
                    <ALLOW_OTHER_TAGS>true</ALLOW_OTHER_TAGS>
                    <ATTRIBUTE_SET_ITEM minOccurs="0" maxOccurs="1">
                        <TAG identifier="key" key="color"/>
                    </ATTRIBUTE_SET_ITEM>
```

```
                    <ATTRIBUTE_SET_ITEM minOccurs="0" maxOccurs="1">
                        <TAG identifier="key" key="careinstructions"/>
                    </ATTRIBUTE_SET_ITEM>
                    <ATTRIBUTE_SET_ITEM minOccurs="0" maxOccurs="1">
                        <TAG identifier="key" key="Energieeffizienzklasse"/>
                    </ATTRIBUTE_SET_ITEM>
                </ATTRIBUTE_SET>
                <ATTRIBUTE_SET>
                <ATTRIBUTE_SET>
                    <NAME>Multimediaartikel mit Speichermöglichkeiten</NAME>
                    <ATTRIBUTE_SET_ITEM minOccurs="0" maxOccurs="1">
                        <TAG identifier="key" key="WritableMediaClassification"/>
                    </ATTRIBUTE_SET_ITEM>
                </ATTRIBUTE_SET>
        </ATTRIBUTE_SETS>
        <SUB_SUPPLIERS>
                <SUB_SUPPLIER>
                    <ID>3</ID>
                    <KEY>4711</KEY>
                    <NAME>VCM Morgenthaler GmbH</NAME>
                    <PREFIX>PVC-</PREFIX>
                </SUB_SUPPLIER>
                <SUB_SUPPLIER>
                    <ID>5</ID>
                    <KEY>4712</KEY>
                    <NAME>Adidas GmbH</NAME>
                    <PREFIX>PAD-</PREFIX>
                </SUB_SUPPLIER>
        </SUB_SUPPLIERS>
</CLASSIFICATION>
```

9.3 TBCATALOG / PRODUCTDATA

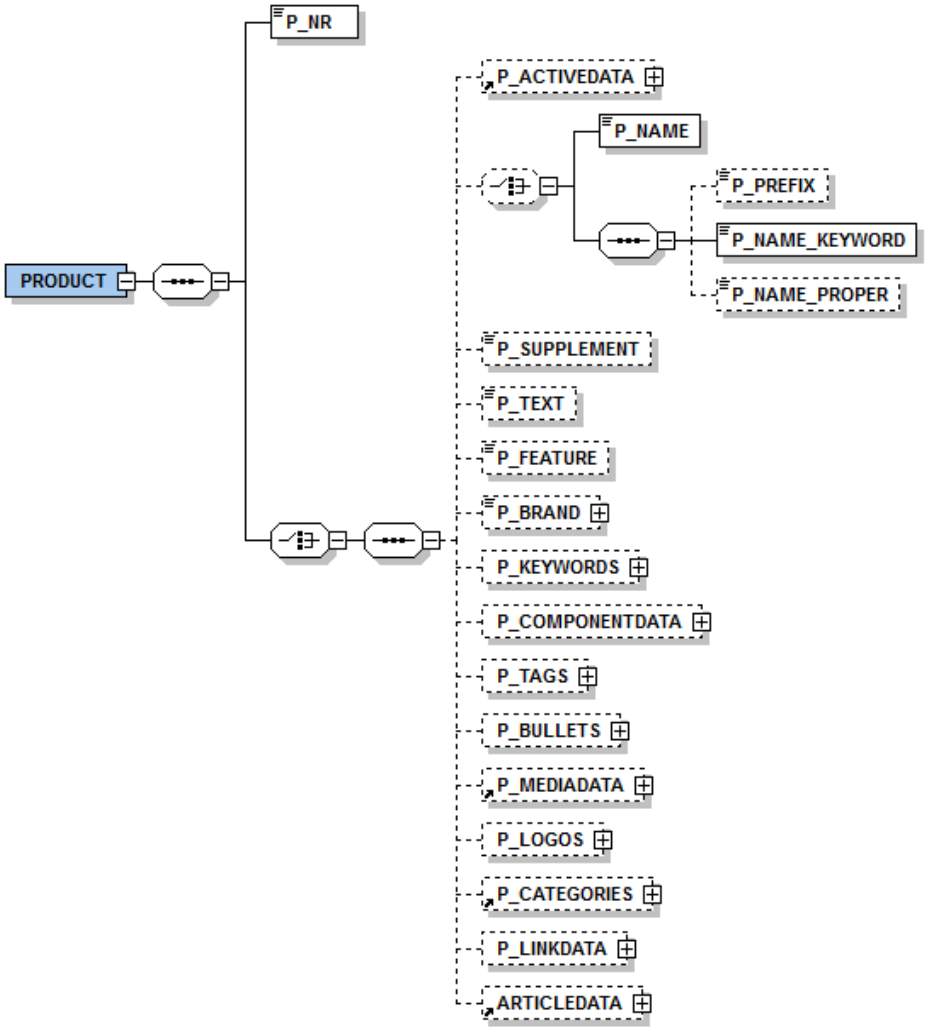


NODE	MUST	DATA TYPE	DESCRIPTION
PRODUCTDATA	Y		Product data
PRODUCTDATA[type]	N	ENUM	Type of transmitted product data Possible values are: full = full product data catalog delta = delta load with changes
PRODUCT [36]	J	XML	Data on a product. The node may be repeated as desired.

Example-XML

```
<PRODUCTDATA type="full">
    <PRODUCT>...</PRODUCT>
    <PRODUCT>...</PRODUCT>
</PRODUCTDATA>
```

9.4 TBCATALOG / PRODUCTDATA / PRODUCT

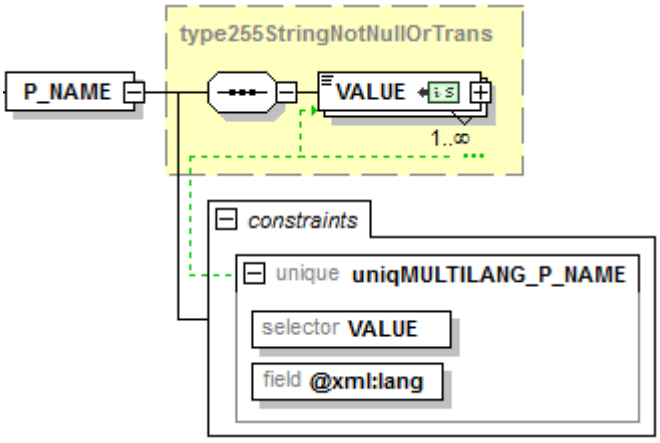


NODE	MUST	DATA TYPE	DESCRIPTION
mode	N	string	If a product is to be deleted you'll receive here <mode="delete"> (only delta load).
P_NR	Y	CHAR(50)	Unique product ID assigned by TB.One.
P_NR_EXTERNAL	N	CHAR(50)	Product number of the supplier.
P_SUB_SUPPLIER	N	XML	Information on suppliers (when multiple suppliers)
P_CHANGEDATE	N	Unix	Timestamp of the last product change
P_CREATEDATE	N	Unix	Timestamp of the product creation

NODE	MUST	DATA TYPE	DESCRIPTION
P_ACTIVEDATA	N	XML	Activation flag for the product. You'll receive only active products, therefore, not necessarily to process.
P_NAME 38	Y	CHAR(255)	Product designation
P_NAME_KEYWORD 38	Y	CHAR(255)	Instead of the product designation P_NAME, the name may also be transferred split into common noun and proper name (e.g. "Jacket Reinhold" vs. "Jacket"/"Reinhold"). This must be arranged separately. Per default, P_NAME is provided here.
P_NAME_PROPER 38	N	CHAR(255)	
P_SUPPLEMENT 40	N	CHAR(255)	Additional promotional headline for the product
P_TEXT 41	N	TEXT	Product description (body text)
P_BRAND 41	N	XML	Brand
P_KEYWORDS 42	N	XML	Keywords/search terms for this product.
P_COMPONENTDATA 43	N	XML	Product components
P_TAGS 44	N	XML	Product attributes
P_BULLETS 45	N	XML	Bullet points
P_FAQ 46	N	XML	Not in use by default
P_MEDIADATA 46	N	XML	Product media (images, documents,...)
P_LOGOS 48	N	XML	Product logos (care instructions,...)
P_CATEGORIES 49	N	XML	Category assignments
P_LINKDATA 50	N	XML	Links (cross-selling, accessories,...)
P_METADATA	-	XML	Not in use by default

NODE	MUST	DATA TYPE	DESCRIPTION
P_VARIANTFIELDS 51	N	XML	For products with variants: definition of the variant forming properties
USERDEFINED 51	N	XML	Custom fields
ARTICLEDATA 52	Y	XML	Article Data

9.5 TBCATALOG / PRODUCTDATA / PRODUCT / P_NAME



NODE	MUST	DATA TYPE	DESCRIPTION
P_NAME or P_NAME_KEYWORD P_NAME_PROPER	Y Y N	TEXT	Product designation OR Common noun and Proper name
VALUE xml:lang="lang"	TEXT	TEXT	Definition of the language with the corresponding translation

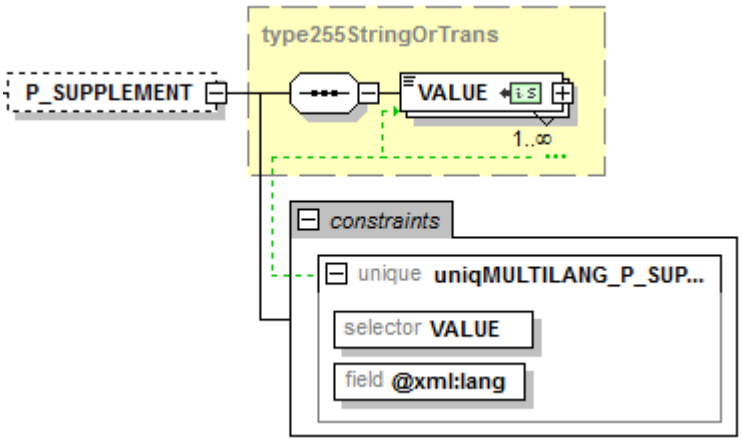
Example-XML

```
<P_NAME>
        <VALUE xml:lang="x-default">Outdoor-Jacke Reinhold</VALUE>
        <VALUE xml:lang="en-us">Outdoor-Jacket Reinhold</VALUE>
</P_NAME>
```

or

```
<P_NAME_KEYWORD>
        <VALUE xml:lang="x-default">Outdoor-Jacke</VALUE>
</P_NAME_KEYWORD>
<P_NAME_PROPER>
        <VALUE xml:lang="x-default">Reinhold</VALUE>
</P_NAME_PROPER>
```

9.6 TBCATALOG / PRODUCTDATA / PRODUCT / P_SUPPLEMENT

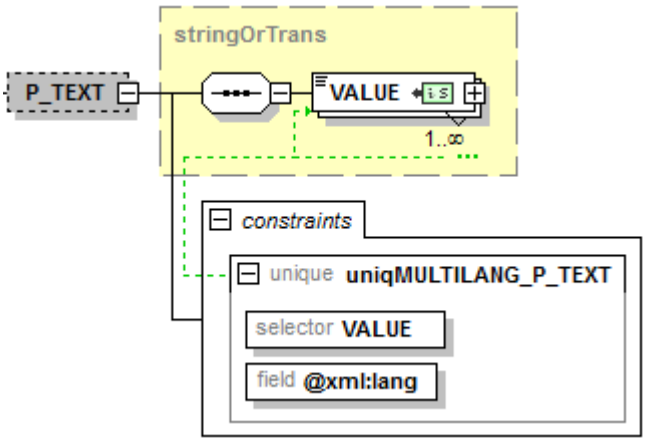


NODE	MUST	DATA TYPE	DESCRIPTION
P_SUPPLEMENT	N	TEXT	The special text is for example a second advertising headline.
VALUE xml:lang="lang"	Y	TEXT	Definition of the language with appropriate text.

Example-XML

```
<P_SUPPLEMENT>
    <VALUE xml:lang="x-default">Außergewöhnlich robust und funktional!</VALUE>
</P_SUPPLEMENT>
```

9.7 TBCATALOG / PRODUCTDATA / PRODUCT / P_TEXT

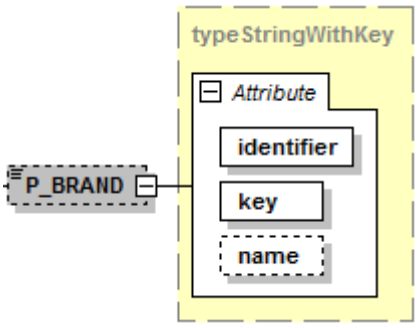


NODE	MUST	DATA TYPE	DESCRIPTION
P_TEXT	N	TEXT	Product description as a continuous text without self-promotion
VALUE xml:lang="lang"	N	TEXT	Definition of the language with value

Example-XML

```
<P_TEXT>
    <VALUE xml:lang="x-default">
        Die Outdoorjacke "Reinhold" ist eine außergewöhnlich robuste und funktionale Jacke! Durch das innovative G-1000 Eco und G-1000 Heavy Duty-Material bietet sie eine enorme Widerstandsfähigkeit und einen effektiven Schutz vor Wind und Witterung, Kälte, Nässe und Sturm. Die Outdoorjacke "Reinhold" ist ein sehr anpassungsfähiger Allrounder für das ganze Jahr, die Sie begeistern wird.
    </VALUE>
</P_TEXT>
```

9.8 TBCATALOG / PRODUCTDATA / PRODUCT / P_BRAND

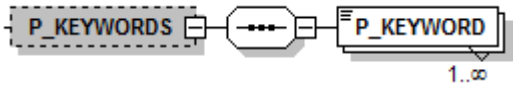


NODE	MUST	DATA TYPE	DESCRIPTION
P_BRAND	N	-empty-	Brand of the product
P_BRAND[identifier]	Y	ENUM	Identifier for referencing [25]
P_BRAND[key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement
P_BRAND[name]	N	CHAR(100)	Name stored in the *identifier* assignment statement

Example-XML (key-based)

```
<P_BRAND identifier="key" key="supjam" />
```

9.9 TBCATALOG / PRODUCTDATA / PRODUCT / P_KEYWORDS



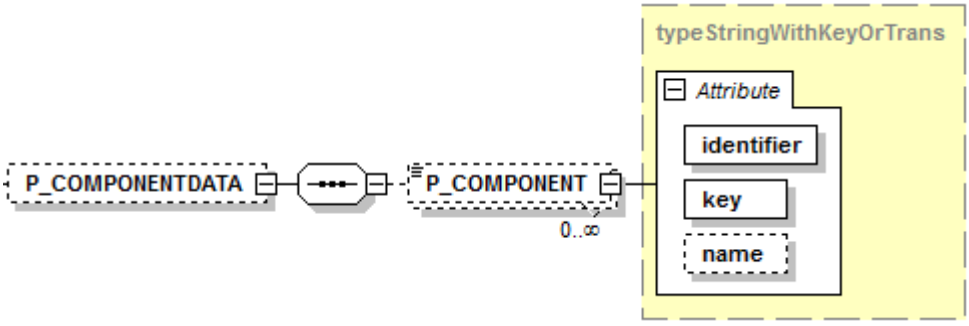
NODE	MUST	DATA TYPE	DESCRIPTION
P_KEYWORDS	N	-empty-	Search terms for the product
P_KEYWORD	Y	CHAR(255)	Single search term
VALUE xml:lang="lang"	N	TEXT	Definition of the language with value

Example-XML

```
<P_KEYWORDS>
        <P_KEYWORD>
                <VALUE xml:lang="x-default">Kapuzenjacke</VALUE>
        </P_KEYWORD>
        <P_KEYWORD>
                <VALUE xml:lang="x-default">Anorak</VALUE>
                <VALUE xml:lang="en_US">Anorak</VALUE>
        </P_KEYWORD>
```

```
</P_KEYWORDS>
```

9.10 TBCATALOG / PRODUCTDATA / PRODUCT / P_COMPONENTDATA

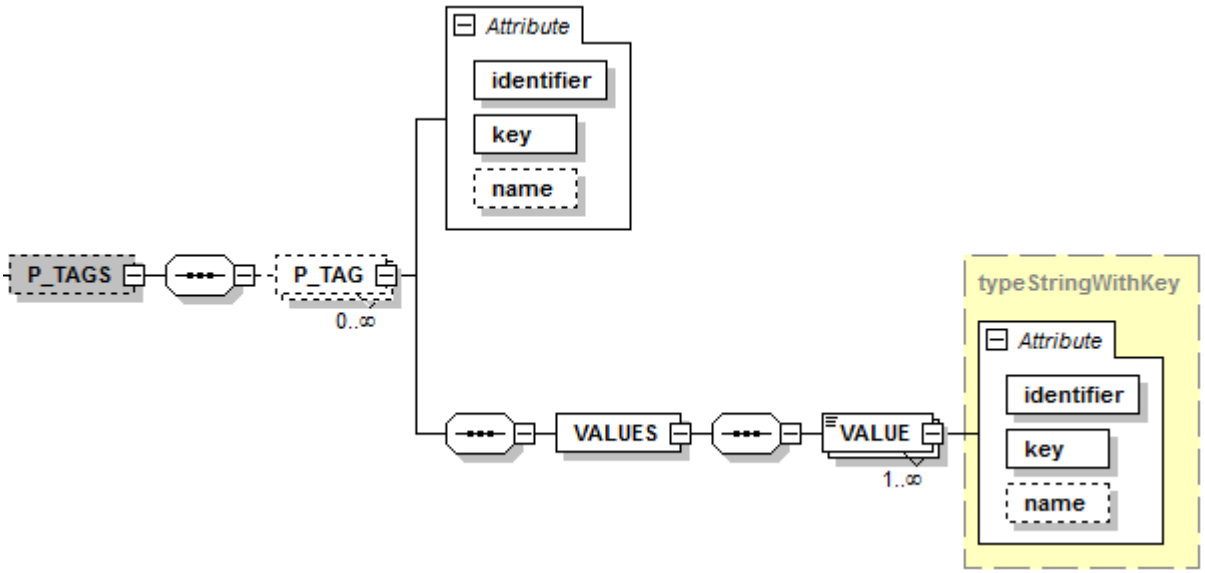


NODE	MUST	DATA TYPE	DESCRIPTION
P_COMPONENTDATA	N		Product components
P_COMPONENT	Y	TEXT	Text of the product component
P_COMPONENT[identifier]	Y	ENUM	Identifier for referencing [25]
P_COMPONENT[key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement
P_COMPONENT[name]	N	CHAR(100)	Name stored in the *identifier* assignment statement
VALUE xml:lang="lang"	N	TEXT	Definition of the language

Example-XML (key-based)

```
<P_COMPONENTDATA>
	<P_COMPONENT identifier="key" key="width">
		<VALUE xml:lang="x-default">30cm</VALUE>
	</P_COMPONENT>
	<P_COMPONENT identifier="key" key="color">
		<VALUE xml:lang="x-default">Grün</VALUE>
		<VALUE xml:lang="en_US">Green</VALUE>
	</P_COMPONENT>
</P_COMPONENTDATA>
```

9.11 TBCATALOG / PRODUCTDATA / PRODUCT / P_TAGS

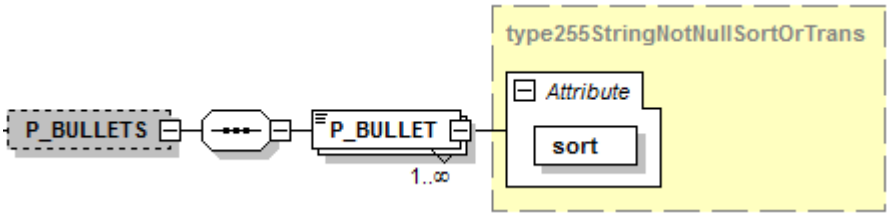


NODE	MUST	DATA TYPE	DESCRIPTION
P_TAGS	N	XML	Product attributes
P_TAG	N	XML	Product attribute
P_TAG[identifier]	Y	ENUM	Identifier for referencing [25]
P_TAG[key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement
P_TAG[name]	N	CHAR(100)	Name stored in the *identifier* assignment statement
VALUES	Y	XML	Attribute values
VALUE	Y	XML	Single attribute value
VALUE[identifier]	Y	ENUM	Identifier for referencing [25]
VALUE[key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement
VALUE[name]	N	CHAR(100)	Name stored in the *identifier* assignment statement

Example-XML (key-based)

```
<P_TAGS>
	<P_TAG identifier="key" key="gender">
		<VALUES>
			<VALUE identifier="key" key="male" />
		</VALUES>
	</P_TAG>
</P_TAGS>
```

9.12 TBCATALOG / PRODUCTDATA / PRODUCT / P_BULLETS



NODE	MUST	DATA TYPE	DESCRIPTION
P_BULLETS	N	XML	Bullet points
P_BULLET	Y	CHAR(255)	Single bullet point
P_BULLET[sort]	Y	INT	Sorting within the bullet points
VALUE xml:lang="lang"	Y	TEXT	Definition of the language

Example-XML

```
<P_BULLETS>
	<P_BULLET sort="10">
		<VALUE xml:lang="x-default">atmungsaktiv</VALUE>
	</P_BULLET>
	<P_BULLET sort="20">
		<VALUE xml:lang="x-default">wasserdicht</VALUE>
	</P_BULLET>
	<P_BULLET sort="30">
		<VALUE xml:lang="x-default">winddicht</VALUE>
		<VALUE xml:lang="en_US">wind proof</VALUE>
	</P_BULLET>
</P_BULLETS>
```

9.13 TBCATALOG / PRODUCTDATA / PRODUCT / P_FAQ

This node is not part of the standard features of the TB.CAT and is only available with TB.Market. Please talk to your Tradebyte contact if required.

9.14 TBCATALOG / PRODUCTDATA / PRODUCT / P_MEDIADATA

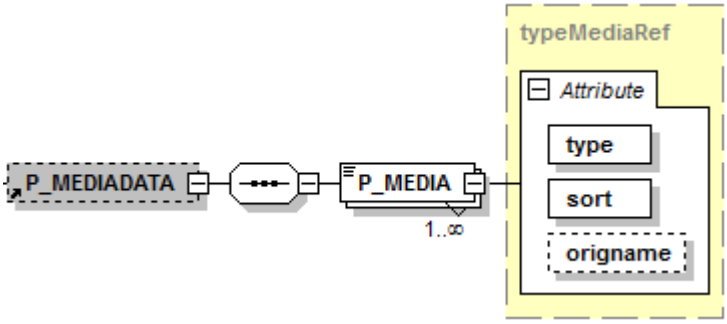
Since TB.One does not only handle images but also other file types we refer to according data as media. In TB.CAT, the transfer of media is by means of a reference (HTTP) to the Tradebyte server. For each designated medium, a media type is communicated.

Generally, we differentiate between product and article media. A product medium applies to the entire product, an article medium for the designated variant.

The Tradebyte server may only be used as a transfer option for the media. The media must be retrieved once and then be saved for further use. The media URLs may therefore explicitly not be referenced directly in the shop.

The media made available are provided in the original size.

The media behind a media URL does not change in principle. When a new medium is assigned to a product, a new media URL is communicated. This means that media must (and need) not be retrieved again just for actuality check.



NODE	MUST	DATA TYPE	DESCRIPTION
P_MEDIADATA	N	XML	Product media
P_MEDIA	Y	CHAR(255)	URL of product medium
P_MEDIA[type]	Y	CHAR(50)	Media type
P_MEDIA[sort]	Y	INT	Sorting within the product media
P_MEDIA[origname]	N	CHAR(255)	Original name of the file

Example-XML

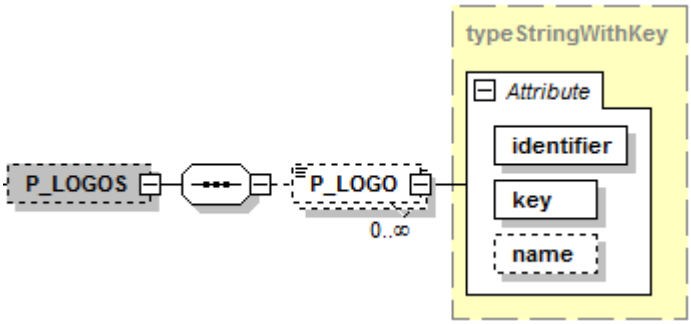
```
<P_MEDIADATA>
        <P_MEDIA type="image" sort="1">http://www.imageserver.tld/123.jpg</P_MEDIA>
        <P_MEDIA type="image" sort="2">http://www.imageserver.tld/124.jpg</P_MEDIA>
</P_MEDIADATA>
```

Example-XML

```
<P_MEDIADATA>
        <P_MEDIA type="image" sort="1">http://www.imageserver.tld/123.jpg</P_MEDIA>
        <P_MEDIA type="image" sort="2">http://www.imageserver.tld/124.jpg</P_MEDIA>
</P_MEDIADATA>
```

9.15 TBCATALOG / PRODUCTDATA / PRODUCT / P_LOGOS

Logos are usually used to represent standardized product features, for example, care symbols (30° wash), certifications (FSC) or features (Bluetooth). Please contact your Tradebyte consultant if required.

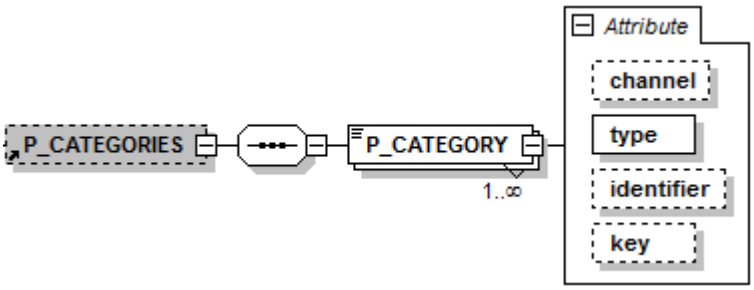


NODE	MUST	DATA TYPE	DESCRIPTION
P_LOGOS	N	XML	Product logos
P_LOGO	Y	-empty-	Product logo
P_LOGO[identifier]	Y	ENUM	Identifier for referencing [25]
P_LOGO[key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement
P_LOGO[name]	N	CHAR(100)	Name stored in the *identifier* assignment statement

Example-XML (key-based)

```
<P_LOGOS>
    <P_LOGO identifier="key" key="machine_wash" />
    <P_LOGO identifier="key" key="iron_left" />
</P_LOGOS>
```

9.16 TBCATALOG / PRODUCTDATA / PRODUCT / P_CATEGORIES



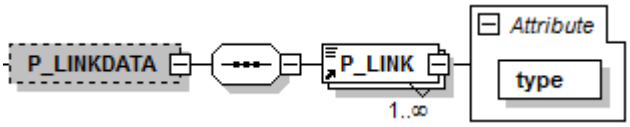
NODE	MUST	DATA TYPE	DESCRIPTION
P_CATEGORIES	N	XML	Product categories
P_CATEGORY	Y	CHAR(200)	Product category
P_CATEGORY[channel]	N	CHAR(12)	Channel indicator
P_CATEGORY[type]	Y	ENUM	Type of the product category Possible values are: primary = primary channel category secondary = secondary channel category
P_CATEGORY[identifier]	N	ENUM	Identifier for referencing [25]
P_CATEGORY[key]	N	CHAR(50)	Value stored in the *identifier* assignment statement

Example-XML (key-based)

```
<P_CATEGORIES>
        <P_CATEGORY channel="chxx" type="primary" identifier="key" key="T0815" />
</P_CATEGORIES>
```

9.17 TBCATALOG / PRODUCTDATA / PRODUCT / P_LINKDATA

Product links are referenced by the product ID (P_NR) of the target product.



NODE	MUST	DATA TYPE	DESCRIPTION
P_LINKDATA	N		Product links (cross-selling,..)
P_LINK	Y	CHAR(50)	Linked product ID (P_NR)
P_LINK[type]	N	ENUM	Link type

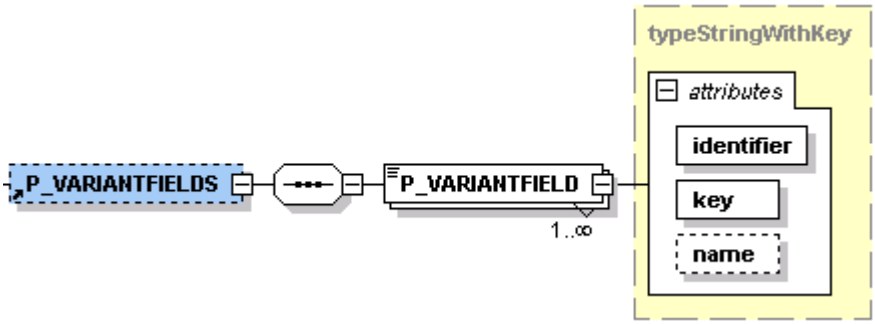
TYPE	DESCRIPTION
cross	Combination option/further articles
accessory	Accessory to the product
device	Product to accessory
upselling	Recommendation
alternative	Alternative offer

Example-XML

```
<P_LINKDATA>
    <P_LINK type="cross">75611</P_LINK>
    <P_LINK type="accessory">75595</P_LINK>
</P_LINKDATA>
```

9.18 TBCATALOG / PRODUCTDATA / PRODUCT / P_VARIANTFIELDS

If a product includes more than one article, at least one variant dimension is specified. This node provides an overview of the variant dimensions used in the articles.



NODE	MUST	DATA TYPE	DESCRIPTION
P_VARIANTFIELDS	N		Variant dimensions
P_VARIANTFIELD	Y	CHAR(50)	Name of the component
P_VARIANTFIELD [identifier]	Y	CHAR(20)	Identifier for referencing [25]
P_VARIANTFIELD [key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement
P_VARIANTFIELD [name]	N	CHAR(100)	Name stored in the *identifier* assignment statement

Example-XML (key-based)

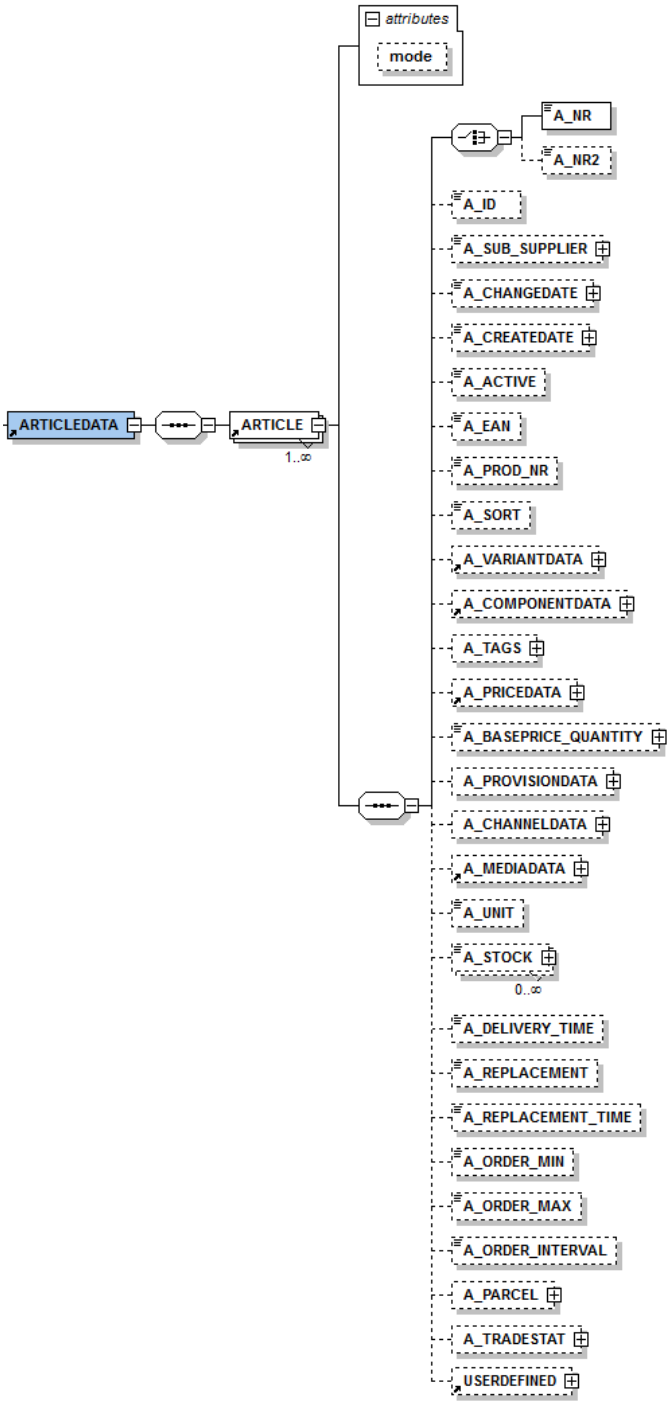
```
<P_VARIANTFIELDS>
    <P_VARIANTFIELD identifier="key" key="size" />
    <P_VARIANTFIELD identifier="key" key="color" />
</P_VARIANTFIELDS>
```

9.19 TBCATALOG / PRODUCTDATA / PRODUCT / USERDEFINED

User-defined fields if applicable.

9.20 TBCATALOG / PRODUCTDATA / PRODUCT / ARTICLEDATA

For each product at least one article is transferred. If there is more than one article per product available (variants), then at least one variant-forming component (A_VARIANTDATA [55]) is defined.

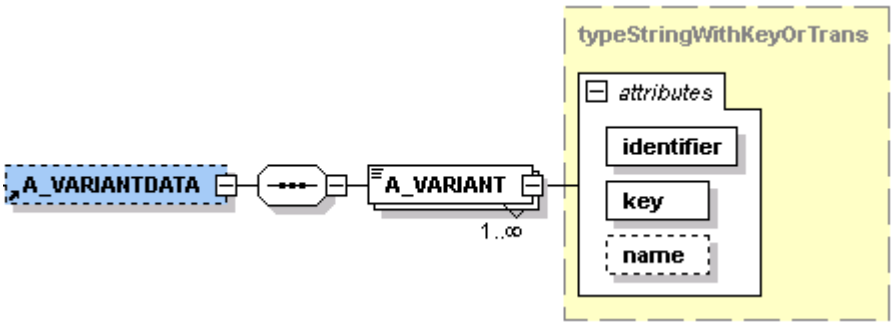


NODE	MUST	DATA TYPE	DESCRIPTION
ARTICLEDATA	Y	array	Article data node
ARTICLE	Y	array	Data for an article
mode	N	string	If an article is to be deleted, this node contains <mode="delete">. The default value is update.
A_NR	Y	CHAR(50)	Article number. This may change.
A_NR2	N	CHAR(50)	Additional second article number
A_ID	N	INT	Unique article ID from TB.One
A_SUB_SUPPLIER	N	STRING	Information on the article supplier (If more than one supplier available)
A_CHANGEDATE	N	UNIX	Unix timestamp of the last article change
A_CREATEDATE	N	UNIX	Unix timestamp of the article creation
A_ACTIVE	N	INT(0/1)	Article active, always 1 Disabled articles are no longer provided.
A_EAN	N	INT(13) fixed	EAN code of the article; 13 digits
A_PROD_NR	N	CHAR(50)	Manufacturer article number
A_SORT	N	INT	Article sorting within the product
A_VARIANTDATA 55	N	XML	Variant values
A_COMPONENTDATA 57	N	XML	Article components
A_TAGS 59	N	XML	Article attributes
A_PRICEDATA 61	N	XML	Price and tax information

NODE	MUST	DATA TYPE	DESCRIPTION
A_BASEPRICE_QUANTITY 62	N	INT	Reference data for base price calculation
A_PROVISIONDATA 63	N	XML	Commission information for channels
A_CHANNELDATA	N	XML	Channel article number
A_MEDIADATA 63	N	XML	Article media (e.g. images)
A_UNIT	N	ENUM	Unit of the article (the default is "ST" for "piece"). Possible values are currently ST, CM and QM. Floating point numbers are not supported at orders/stocks.
A_STOCK	N	INT	Stock
A_DELIVERY_TIME	N	INT	Delivery time in business days
A_REPLACEMENT	N	INT(1/0)	Indicator for replaceability (1 = replaceable)
A_REPLACEMENT_TIME	N	INT	Replacement time in business days
A_ORDER_MIN	N	INT	Definition of a minimum order quantity
A_ORDER_MAX	N	INT	Definition of a maximum order quantity
A_ORDER_INTERVAL	N	INT	Increments when entering an order quantity
A_PARCEL 64	N	XML	Information on delivery type and shipping dimensions
A_TRADESTAT 65	N	XML	IntraStat number and country of origin
A_METADATA	N	XML	Not in use by default
USERDEFINED 51	N	XML	Custom fields on article level

9.21 TBCATALOG / ... / ARTICLEDATA / ARTICLE / A_VARIANTDATA

If more than one article per product it transferred (variants), there is at least one variant property and their values. All variants of a product necessarily have the same variant dimension.



NODE	MUST	DATA TYPE	DESCRIPTION
A_VARIANTDATA	N	XML	Variant dimensions
A_VARIANT	Y	CHAR(255)	Value of the variant dimension
A_VARIANT[identifier]	Y	ENUM	Identifier for referencing [25]
A_VARIANT[key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement
A_VARIANT[name]	N	CHAR(100)	Name stored in the *identifier* assignment statement
VALUE xml:lang="lang"	Y	TEXT	Definition of the language

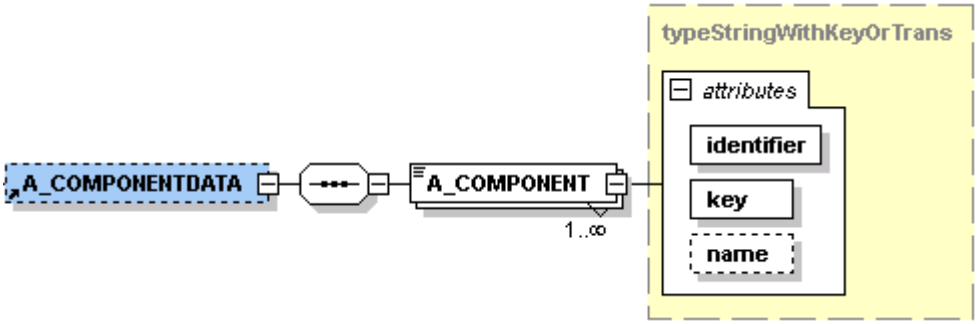
Example-XML (key-based)

```
<A_VARIANTDATA>
	<A_VARIANT identifier="key" key="color">
		<VALUE xml:lang="x-default">Hellgrün</VALUE>
		<VALUE xml:lang="en_US">light green</VALUE>
	</A_VARIANT>
	<A_VARIANT identifier="key" key="size">
		<VALUE xml:lang="x-default">XL</VALUE>
	</A_VARIANT>
</A_VARIANTDATA>
```

9.22 TBCATALOG / ... / ARTICLEDATA / ARTICLE / A_COMPONENTDATA

Components on article level (see also P_COMPONENTDATA) differ for each article, but do not form variants.

Example: A USB flash drive has the variants at memory size 32GB and 64GB. Depending on the memory size, the speed is different - 32 and 45MB/s. But there is no stick with 32GB and 45MB/s and no one with 64GB and 32MB/s. The access speed could be stored as an article component here.



NODE	MUST	DATA TYPE	DESCRIPTION
A_COMPONENTDATA	N	XML	Article components
A_COMPONENT	Y	TEXT	Definition of each article component
A_COMPONENT[identifier]	Y	ENUM	Identifier for referencing [25]
A_COMPONENT[key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement
A_COMPONENT[name]	N	CHAR(100)	Name stored in the *identifier* assignment statement
VALUE xml:lang="lang"	Y	TEXT	Definition of the language

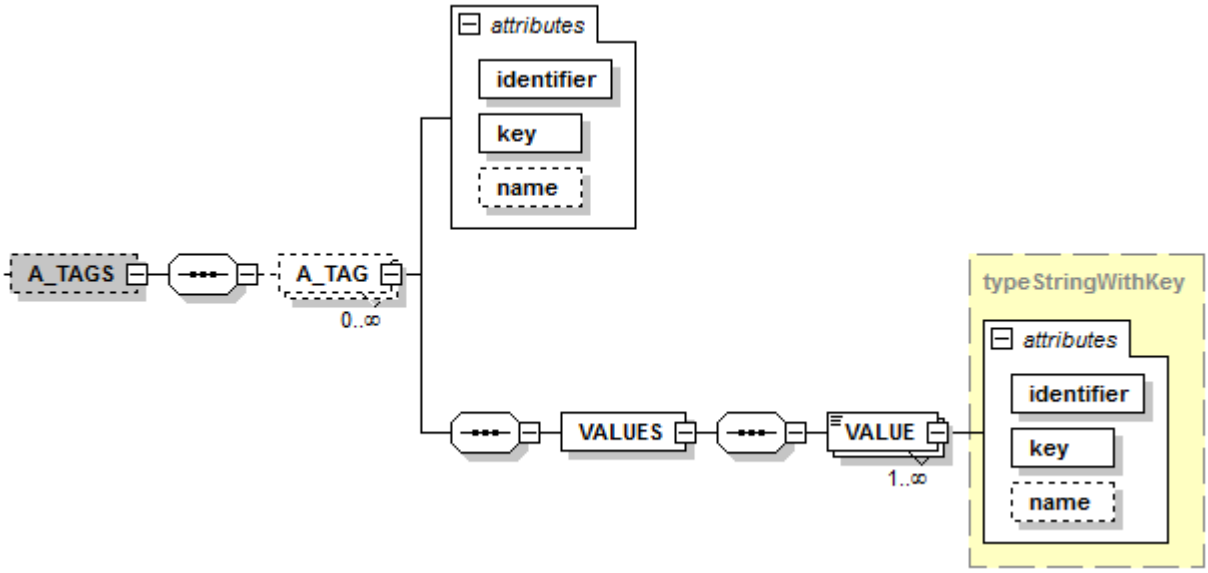
Example-XML (key-based)

```
<A_COMPONENTDATA>
    <A_COMPONENT identifier="key" key="readspeed">
        <VALUE xml:lang="x-default">45 MB/s</VALUE>
        <VALUE xml:lang="en-us">45 MB/s</VALUE>
```

```
        </A_COMPONENT>
</A_COMPONENTDATA>
```

9.23 TBCATALOG / ... / ARTICLEDATA / ARTICLE / A_TAGS

Attributes at article level (see also P_TAGS [44]).



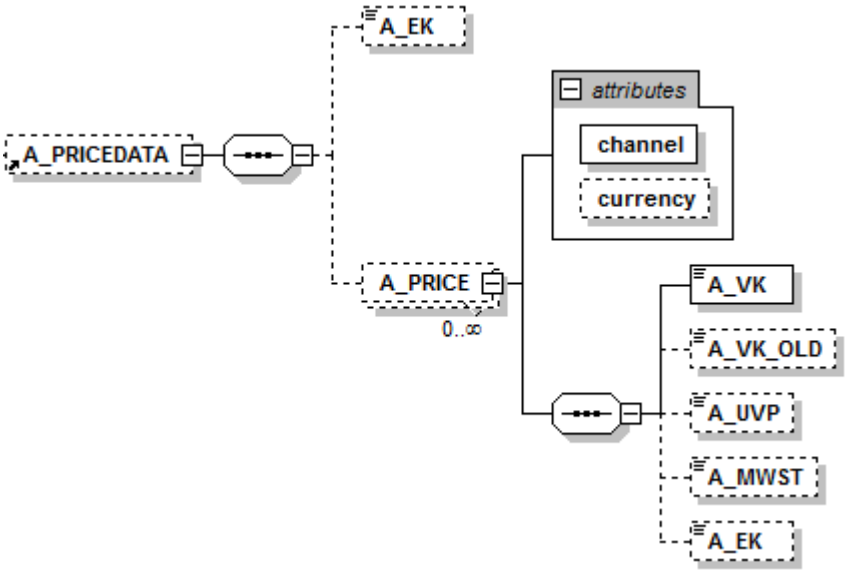
NODE	MUST	DATA TYPE	DESCRIPTION
A_TAGS	N	XML	Article attributes
A_TAG	Y	XML	Article attribute
A_TAG[identifier]	Y	ENUM	Identifier for referencing
A_TAG[key]	Y	CHAR(50)	Value stored in the identifier assignment statement
A_TAG[name]	N	CHAR(100)	Name stored in the identifier assignment statement
VALUES	Y	XML	Attribute values
VALUE	Y	XML	Single attribute value
VALUE[identifier]	Y	ENUM	Identifier for referencing [25]
VALUE[key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement

NODE	MUST	DATA TYPE	DESCRIPTION
VALUE[name]	N	CHAR(100)	Name stored in the *identifier* assignment statement

Example-XML (key-based)

```
<A_TAGS>
	<A_TAG identifier="key" key="basecolor">
		<VALUES>
			<VALUE identifier="key" key="red" />
			<VALUE identifier="key" key="green" />
		</VALUES>
	</A_TAG>
</A_TAGS>
```

9.24 TBCATALOG / ... / ARTICLEDATA / ARTICLE / A_PRICEDATA



NODE	MUST	DATA TYPE	DESCRIPTION
A_PRICEDATA	N		Article prices
A_PRICE	Y		Pricing
A_PRICE[channel]	Y	CHAR(12)	Channel sign
A_PRICE[currency]	N	ENUM	Currency sign
A_VK	Y	FLOAT	Gross sales price
A_VK_OLD	N	FLOAT	Cross price (former price)
A_UVP	N	FLOAT	Manufacturer's suggested retail price (MSRP)
A_MWST	N	INT	Indicator for the VAT rate 1 = reduced tax rate 2 = normal tax rate 3 = VAT exempt
A_EK	N	FLOAT	Optional purchase price (net)

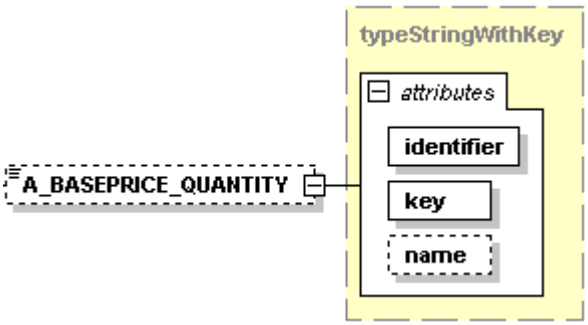
Example-XML

```
<A_PRICEDATA>
```

```
        <A_PRICE channel="chxx" currency="EUR">
                <A_VK>69.97</A_VK>
                <A_VK_OLD>89.95</A_VK_OLD>
                <A_UVP>99.95</A_UVP>
                <A_MWST>2</A_MWST>
                <A_EK>38.32</A_EK>
        </A_PRICE>
<A_PRICEDATA>
```

9.25 TBCATALOG / ... / ARTICLEDATA / ARTICLE / A_BASEPRICE_QUANTITY

Information about quantity per pack and base price reference for articles with mandatory base price.



NODE	MUST	DATA TYPE	DESCRIPTION
A_BASEPRICE_QUANTITY	N	FLOAT	Fill quantity
A_BASEPRICE_QUANTITY[identifier]	Y	ENUM	Identifier for referencing [25]
A_BASEPRICE_QUANTITY[key]	Y	CHAR(50)	Value stored in the *identifier* assignment statement
A_BASEPRICE_QUANTITY[name]	N	CHAR(100)	Name stored in the *identifier* assignment statement

Example-XML (key-based)

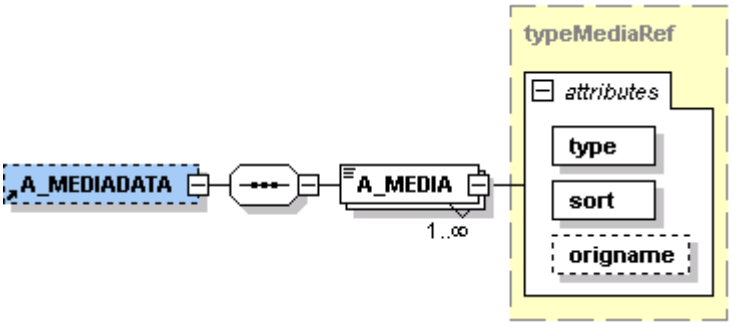
```
<A_BASEPRICE_QUANTITY identifier="key" key="100ml">500</A_BASEPRICE_QUANTITY>
```

9.26 TBCATALOG / ... / ARTICLEDATA / ARTICLE / A_PROVISIONDATA

As standard not in use.

9.27 TBCATALOG / ... / ARTICLEDATA / ARTICLE / A_MEDIADATA

Media on article/variant level. This usually concerns media with a direct article reference (e.g. picture of a color variant). See also P_MEDIADATA 46.



NODE	MUST	DATA TYPE	DESCRIPTION
A_MEDIADATA	N	XML	Article media
A_MEDIA	Y	CHAR(255)	URL to article medium. If a picture applies for several variants, the URL must de repeated for each variant.
A_MEDIA[type]	Y	ENUM	Media type
A_MEDIA[sort]	Y	INT	Sorting within the article media
A_MEDIA[origname]	N	CHAR(255)	Original name of the file

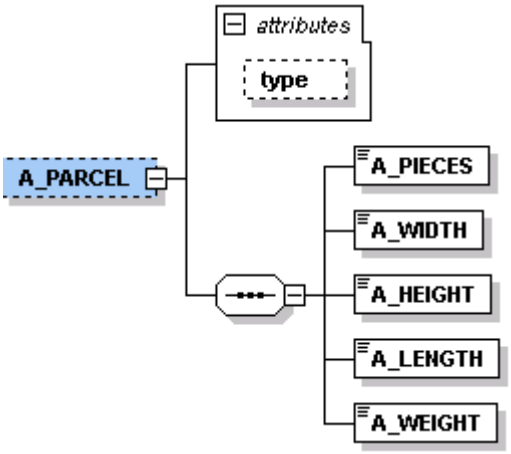
Example-XML

```
<A_MEDIADATA>
        <A_MEDIA type="image" sort="1">http://www.imageserver.tld/123.jpg</A_MEDIA>
        <A_MEDIA type="image" sort="2">http://www.imageserver.tld/124.jpg</A_MEDIA>
</A_MEDIADATA>
```

The details concerning the use of the communicated media URLs in node P_MEDIADATA [46] apply accordingly.

9.28 TBCATALOG / ... / ARTICLEDATA / ARTICLE / A_PARCEL

Information about modes of transport and package dimensions.



NODE	MUST	DATA TYPE	DESCRIPTION
A_PARCEL	N		Information about shipping type and measurements
A_PARCEL[type]	N		Shipping type of the article
A_PIECES	Y	INT	Number of packages (more than 1 packing unit)
A_WIDTH	Y	INT	Width of all packages of the article in cm
A_HEIGHT	Y	INT	Height of all packages of the article in cm
A_LENGTH	Y	INT	Length of all packages of the article in cm

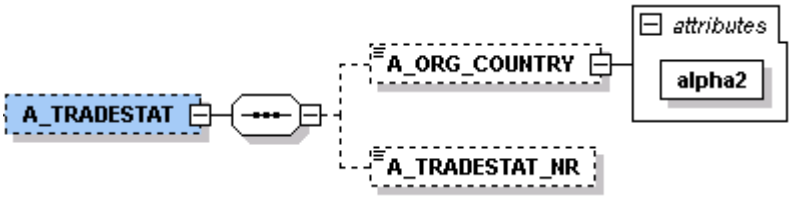
NODE	MUST	DATA TYPE	DESCRIPTION
A_WEIGHT	Y	FLOAT	Weight of all packages of the article in kg

Example-XML

```
<A_PARCEL type="other_parcel">
        <A_PIECES>1</A_PIECES>
        <A_WIDTH>90</A_WIDTH>
        <A_HEIGHT>30</A_HEIGHT>
        <A_LENGTH>50</A_LENGTH>
        <A_WEIGHT>2.4</A_WEIGHT>
</A_PARCEL>
```

9.29 TBCATALOG / ... / ARTICLEDATA / ARTICLE / A_TRADESTAT

Information on country of origin and IntraStat number.



NODE	MUST	DATA TYPE	DESCRIPTION
A_TRADESTAT	N	XML	TradeStat information
A_ORG_COUNTRY[alpha2]	Y	CHAR(2)	ISO 3166-1 Alpha 2 Code
A_TRADESTAT_NR	N	INT(8)	IntraStat Number

Example-XML

```
<A_TRADESTAT>
        <A_ORG_COUNTRY alpha2="DE" />
        <A_TRADESTAT_NR>94036090</A_TRADESTAT_NR>
</A_TRADESTAT>
```

10. EXAMPLES (KEY-BASED)

10.1 PRODUCT WITHOUT VARIANTS, MULTILINGUAL

```
<?xml version="1.0" encoding="UTF-8"?>

<TBCATALOG version="1.2" creation="1378277984" channel="cudokuacc1"
xml:xsd="http://www.w3.org/2001/XMLSchema">

    <PRODUCTDATA type="full">

        <PRODUCT>

            <P_NR>87</P_NR>

            <P_NR_EXTERNAL>5986</P_NR_EXTERNAL>

            <P_CHANGEDATE type="unix_timestamp">1378275377</P_CHANGEDATE>

            <P_CREATEDATE type="unix_timestamp">1365784128</P_CREATEDATE>

            <P_ACTIVEDATA>

                <P_ACTIVE channel="cudokuacc1">1</P_ACTIVE>

            </P_ACTIVEDATA>

            <P_NAME_KEYWORD>

                <VALUE xml:lang="x-default">Outdoor-Jacke</VALUE>

                <VALUE xml:lang="en-us">Outdoor-Jacket</VALUE>

            </P_NAME_KEYWORD>

            <P_NAME_PROPER>

                <VALUE xml:lang="x-default">Reinhold</VALUE>

                <VALUE xml:lang="en-us">Reinhold</VALUE>

            </P_NAME_PROPER>

            <P_TEXT>

                <VALUE xml:lang="x-default">

                    Die Outdoorjacke "Reinhold" ist eine außergewöhnlich robuste und funktionale Jacke! Durch das innovative Material bietet sie eine enorme Widerstandsfähigkeit und einen effektiven Schutz vor Wind und Witterung, Kälte, Nässe und Sturm. Die Outdoorjacke "Reinhold" ist ein anpassungsfähiger Allrounder, die Sie das ganze Jahr begeistern wird.

                </VALUE>

                <VALUE xml:lang="en-us">

                    The outdoor jacket "Reinhold" is an exceptionally robust and functional jacket! Through the innovative Material offers you a enormous durability and an effective protection from wind and weather, cold,
```

```
                wet and storm. The outdoor jacket "Reinhold" is a very flexible all-
                rounder for the whole year, which will inspire you.
            </VALUE>
        </P_TEXT>
        <P_BRAND identifier="key" key="evsh" name="Evita Shoes"/>
        <P_KEYWORDS>
            <P_KEYWORD>
                <VALUE xml:lang="x-default">Kapuzenjacke</VALUE>
                <VALUE xml:lang="en-us">hoodie jacket</VALUE>
            </P_KEYWORD>
            <P_KEYWORD>
                <VALUE xml:lang="x-default">Anorak</VALUE>
                <VALUE xml:lang="en-us">Anorak</VALUE>
            </P_KEYWORD>
            <P_KEYWORD>
                <VALUE xml:lang="x-default">Funktionskleidung</VALUE>
                <VALUE xml:lang="en-us">functional clothing</VALUE>
            </P_KEYWORD>
        </P_KEYWORDS>
        <P_COMPONENTDATA>
            <P_COMPONENT identifier="key" key="width" name="Länge">
                <VALUE xml:lang="x-default">110cm</VALUE>
                <VALUE xml:lang="en-us">110cm</VALUE>
            </P_COMPONENT>
            <P_COMPONENT identifier="key" key="color" name="Farbe">
                <VALUE xml:lang="x-default">blau</VALUE>
                <VALUE xml:lang="en-us">blue</VALUE>
            </P_COMPONENT>
        </P_COMPONENTDATA>
        <P_TAGS>
            <P_TAG identifier="key" key="gender" name="Geschlecht">
                <VALUES>
```

```
                                        <VALUE identifier="key" key="male" name="männlich" />
                                </VALUES>
                        </P_TAG>
                </P_TAGS>
                <P_BULLETS>
                        <P_BULLET sort="10">
                                <VALUE xml:lang="x-default">atmungsaktiv</VALUE>
                                <VALUE xml:lang="en-us">breathable</VALUE>
                        </P_BULLET>
                        <P_BULLET sort="20">
                                <VALUE xml:lang="x-default">wasserdicht</VALUE>
                                <VALUE xml:lang="en-us">waterproof</VALUE>
                        </P_BULLET>
                        <P_BULLET sort="30">
                                <VALUE xml:lang="x-default">winddicht</VALUE>
                                <VALUE xml:lang="en-us">windproof</VALUE>
                        </P_BULLET>
                </P_BULLETS>
                <P_MEDIADATA>
                        <P_MEDIA type="image" sort="0">http://foo.server/231.jpg</P_MEDIA>
                        <P_MEDIA type="image" sort="1">http://foo.server/232.jpg</P_MEDIA>
                </P_MEDIADATA>
                <P_LOGOS>
                        <P_LOGO identifier="key" key="machinewash" name="Maschinenwäsche" />
                        <P_LOGO identifier="key" key="ironleft" name="links bügeln" />
                </P_LOGOS>
                <P_CATEGORIES>
                        <P_CATEGORY channel="cudokuacc1" type="primary" identifier="key"
key="hefr">Herren|Jacken|Freizeit</P_CATEGORY>
                        <P_CATEGORY channel="cudokuacc1" type="secondary" identifier="key"
key="heout">Herren|Jacken|Outdoor</P_CATEGORY>
                </P_CATEGORIES>
                <P_LINKDATA>
```

```
                    <P_LINK type="cross">568</P_LINK>
                    <P_LINK type="accessory">894</P_LINK>
                </P_LINKDATA>
                <ARTICLEDATA>
                    <ARTICLE>
                        <A_NR>5986</A_NR>
                        <A_ID>105</A_ID>
                        <A_CHANGEDATE
type="unix_timestamp">1376396744</A_CHANGEDATE>
                        <A_CREATEDATE
type="unix_timestamp">1357648848</A_CREATEDATE>
                        <A_ACTIVE>1</A_ACTIVE>
                        <A_EAN>4250372205442</A_EAN>
                        <A_PROD_NR>56894</A_PROD_NR>
                        <A_NR2>381059</A_NR2>
                        <A_COMPONENTDATA>
                            <A_COMPONENT identifier="key" key="collar" name="Kragen">
                                <VALUE xml:lang="x-default">V-Ausschnitt</VALUE>
                                <VALUE xml:lang="en-us">V-neck</VALUE>
                            </A_COMPONENT>
                        </A_COMPONENTDATA>
                        <A_TAGS>
                            <A_TAG identifier="key" key="basecolor" name="Basisfarbe">
                                <VALUES>
                                    <VALUE identifier="key" key="blue"
name="Blau"/>
                                    <VALUE identifier="key" key="black"
name="Schwarz"/>
                                </VALUES>
                            </A_TAG>
                        </A_TAGS>
                        <A_PRICEDATA>
                            <A_PRICE channel="cudokuacc1" currency="EUR">
```

```
                                        <A_VK>87.99</A_VK>
                                        <A_VK_OLD>109.95</A_VK_OLD>
                                        <A_UVP>120.00</A_UVP>
                                        <A_MWST>2</A_MWST>
                                        <A_EK>59.90</A_EK>
                                    </A_PRICE>
                                </A_PRICEDATA>
                                <A_MEDIADATA>
                                    <A_MEDIA type="image"
sort="1">http://foo.server/blau.jpg</A_MEDIA>
                                    <A_MEDIA type="image"
sort="2">http://foo.server/bldet.jpg</A_MEDIA>
                                </A_MEDIADATA>
                                <A_UNIT>ST</A_UNIT>
                                <A_STOCK>20</A_STOCK>
                                <A_DELIVERY_TIME>3</A_DELIVERY_TIME>
                                <A_REPLACEMENT>1</A_REPLACEMENT>
                                <A_REPLACEMENT_TIME>5</A_REPLACEMENT_TIME>
                                <A_ORDER_MIN>1</A_ORDER_MIN>
                                <A_ORDER_MAX>2</A_ORDER_MAX>
                                <A_ORDER_INTERVAL>1</A_ORDER_INTERVAL>
                                <A_PARCEL type="MeinVersand">
                                    <A_PIECES>1</A_PIECES>
                                    <A_WIDTH>90</A_WIDTH>
                                    <A_HEIGHT>30</A_HEIGHT>
                                    <A_LENGTH>50</A_LENGTH>
                                    <A_WEIGHT>2.4</A_WEIGHT>
                                </A_PARCEL>
                                <A_TRADESTAT>
                                    <A_ORG_COUNTRY alpha2="DE"/>
                                    <A_TRADESTAT_NR>94036090</A_TRADESTAT_NR>
                                </A_TRADESTAT>
                            </ARTICLE>
```

```
                    </ARTICLEDATA>
                </PRODUCT>
        </PRODUCTDATA>
</TBCATALOG>
```

10.2 PRODUCT WITH VARIANTS, MONOLINGUAL

```
<?xml version="1.0" encoding="UTF-8"?>
<TBCATALOG version="1.2" creation="1378277984" channel="cudokuacc1"
xml:xsd="http://www.w3.org/2001/XMLSchema">
        <PRODUCTDATA type="full">
                <PRODUCT>
                        <P_NR>87</P_NR>
                        <P_NR_EXTERNAL>5986</P_NR_EXTERNAL>
                        <P_CHANGEDATE type="unix_timestamp">1378275377</P_CHANGEDATE>
                        <P_CREATEDATE type="unix_timestamp">1365784128</P_CREATEDATE>
                        <P_ACTIVEDATA>
                                <P_ACTIVE channel="cudokuacc1">1</P_ACTIVE>
                        </P_ACTIVEDATA>
                        <P_NAME_KEYWORD>
                                <VALUE xml:lang="x-default">Outdoor-Jacke</VALUE>
                        </P_NAME_KEYWORD>
                        <P_NAME_PROPER>
                                <VALUE xml:lang="x-default">Reinhold</VALUE>
                        </P_NAME_PROPER>
                        <P_TEXT>
                                <VALUE xml:lang="x-default">
                                        Die Outdoorjacke "Reinhold" ist eine außergewöhnlich robuste und funk-
                                        tionale Jacke! Durch das innovative G-1000 Eco und G-1000 Heavy Duty-
                                        Material bietet sie eine enorme Widerstandsfähigkeit und einen effek-
                                        tiven Schutz vor Wind und Witterung, Kälte, Nässe und Sturm. Die
                                        Outdoorjacke "Reinhold" ist ein sehr anpassungsfähiger Allrounder für
                                        das ganze Jahr, die Sie begeistern wird.
                                </VALUE>
                        </P_TEXT>
```

```
<P_BRAND identifier="key" key="supjam" name="Superjackenmeister"/>
<P_KEYWORDS>
	<P_KEYWORD>
		<VALUE xml:lang="x-default">Kapuzenjacke</VALUE>
	</P_KEYWORD>
	<P_KEYWORD>
		<VALUE xml:lang="x-default">Anorak</VALUE>
	</P_KEYWORD>
	<P_KEYWORD>
		<VALUE xml:lang="x-default">Funktionskleidung</VALUE>
	</P_KEYWORD>
</P_KEYWORDS>
<P_COMPONENTDATA>
	<P_COMPONENT identifier="key" key="material" name="Material">
		<VALUE xml:lang="x-default">G-100 Eco, G-10 Heavy Duty</VALUE>
	</P_COMPONENT>
</P_COMPONENTDATA>
<P_TAGS>
	<P_TAG identifier="key" key="gender" name="Geschlecht">
		<VALUES>
			<VALUE identifier="key" key="male" name="männlich" />
		</VALUES>
	</P_TAG>
</P_TAGS>
<P_BULLETS>
	<P_BULLET sort="10">
		<VALUE xml:lang="x-default">atmungsaktiv</VALUE>
	</P_BULLET>
	<P_BULLET sort="20">
		<VALUE xml:lang="x-default">wasserdicht</VALUE>
	</P_BULLET>
	<P_BULLET sort="30">
```

```
                                        <VALUE xml:lang="x-default">winddicht</VALUE>
                                    </P_BULLET>
                                </P_BULLETS>
                                <P_MEDIADATA>
                                    <P_MEDIA type="image" sort="0">http://foo.server/231.jpg</P_MEDIA>
                                    <P_MEDIA type="image" sort="1">http://foo.server/232.jpg</P_MEDIA>
                                </P_MEDIADATA>
                                <P_LOGOS>
                                    <P_LOGO identifier="key" key="machinewash" name="Maschinenwäsche" />
                                    <P_LOGO identifier="key" key="ironleft" name="links bügeln" />
                                </P_LOGOS>
                                <P_CATEGORIES>
                                    <P_CATEGORY channel="cudokuacc1" type="primary" identifier="key"
key="hefr">Herren|Jacken|Freizeit</P_CATEGORY>
                                    <P_CATEGORY channel="cudokuacc1" type="secondary" identifier="key"
key="heout">Herren|Jacken|Outdoor</P_CATEGORY>
                                </P_CATEGORIES>
                                <P_LINKDATA>
                                    <P_LINK type="cross">9</P_LINK>
                                    <P_LINK type="accessory">13</P_LINK>
                                </P_LINKDATA>
                                <P_VARIANTFIELDS>
                                    <P_VARIANTFIELD identifier="key" key="color">Farbe</P_VARIANTFIELD>
                                    <P_VARIANTFIELD identifier="key" key="size">Größe</P_VARIANTFIELD>
                                </P_VARIANTFIELDS>
                                <ARTICLEDATA>
                                    <ARTICLE>
                                        <A_NR>3810blS</A_NR>
                                        <A_ID>349</A_ID>
                                        <A_CHANGEDATE
type="unix_timestamp">1378275525</A_CHANGEDATE>
                                        <A_CREATEDATE
type="unix_timestamp">1370349820</A_CREATEDATE>
```

```
                                <A_ACTIVE>1</A_ACTIVE>
                                <A_EAN>4250372205442</A_EAN>
                                <A_PROD_NR>56894</A_PROD_NR>
                                <A_NR2>381059</A_NR2>
                                <A_VARIANTDATA>
                                        <A_VARIANT identifier="key" key="color">
                                                <VALUE xml:lang="x-default">blau</VALUE>
                                        </A_VARIANT>
                                        <A_VARIANT identifier="key" key="size">
                                                <VALUE xml:lang="x-default">S</VALUE>
                                        </A_VARIANT>
                                </A_VARIANTDATA>
                                <A_COMPONENTDATA>
                                        <A_COMPONENT identifier="key" key="collar" name="Kragen">
                                                <VALUE xml:lang="x-default">V-Ausschnitt</VALUE>
                                        </A_COMPONENT>
                                </A_COMPONENTDATA>
                                <A_TAGS>
                                        <A_TAG identifier="key" key="basecolor" name="Basisfarbe">
                                                <VALUES>
                                                        <VALUE identifier="key" key="blue"
name="Blau"/>
                                                        <VALUE identifier="key" key="black"
name="Schwarz"/>
                                                </VALUES>
                                        </A_TAG>
                                </A_TAGS>
                                <A_PRICEDATA>
                                        <A_PRICE channel="cudokuacc1" currency="EUR">
                                                <A_VK>87.99</A_VK>
                                                <A_VK_OLD>109.95</A_VK_OLD>
                                                <A_UVP>120.00</A_UVP>
                                                <A_MWST>2</A_MWST>
```

```
                                        <A_EK>59.90</A_EK>
                                    </A_PRICE>
                                </A_PRICEDATA>
                                <A_MEDIADATA>
                                    <A_MEDIA type="image"
sort="1">http://foo.server/blau.jpg</A_MEDIA>
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