

CHANNEL BASICS

PART 2



PRODUCT DATA EXPORT VIA TB.CAT 1.4

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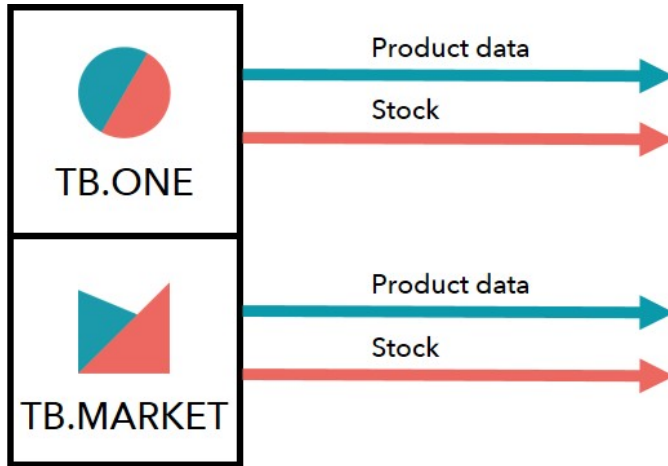
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1. WHAT YOU CAN EXPECT IN THIS MANUAL

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 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_4_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).

ABBREVIATION	DESCRIPTION
CHANNEL_ID	The channel ID is required and will be provided by your Tradebyte contact. In the example calls the ID is reference with CHID. If the API user is not assigned to this channel-ID, a call is not possible.

RETURN VALUES

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	<pre><TBCATALOG channel="chxx" creation="1359543069"> <SUPPLIER> <NAME>Dokuaccount</NAME> </SUPPLIER> <CLASSIFICATION></CLASSIFICATION> <PRODUCTDATA type="full"> <PRODUCT></PRODUCT> <PRODUCT></PRODUCT> ... </PRODUCTDATA> </TBCATALOG></pre>	

Method	GET	Retrieves
Target	products	a list of products
Parameter	delta	from a recent change in delta (delta load)

Method	GET	Retrieves
Example	.../products/?channel=CHID&delta=1359543069	
Response	<pre><TBCATALOG channel="chxx" creation="1359543069"> <SUPPLIER></SUPPLIER> <PRODUCTDATA> <PRODUCT></PRODUCT> <PRODUCT></PRODUCT> ... </PRODUCTDATA> </TBCATALOG></pre>	

INVENTORY LISTS

For channels with main and several sub- channels you have several channel-IDs available. If you use the ID of a sub-channel as CHID, you receive the stock of all articles activated for the specified sub-channel. Choose the ID of the main channel to get a stock list of activated articles for all sub-channels together.

Method	GET	Retrieves
Target	stock	an inventory list for the specified channel (Full Load)
Example	.../stock/?channel=CHID	
Response	<pre><TBSTOCK changedate="1359705447"> <ARTICLE> <A_NR>4688-pi-42</A_NR> <A_STOCK>10</A_STOCK> </ARTICLE> ... </TBSTOCK></pre>	

Method	GET	Retrieves
Target	stock	an inventory list
Parameter	delta	starting from a last change delta (delta load)
Example	.../stock/?channel=CHID&delta=1359705447	
Response	<pre><TBSTOCK changedate="1359706621"> <ARTICLE> <A_NR>4689olxxl</A_NR> <A_STOCK>5</A_STOCK> </ARTICLE> </TBSTOCK></pre>	

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	<pre> <TBPRICES changedate="1359705447"> <ARTICLE> <A-NR>4688-pi-42</A_NR> <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> </ARTICLE> ... </TBPRICES> </pre>	

Method	GET	Retrieves
Target	prices	an inventory list for the specified channel
Parameter	delta	starting from a last change delta
Example	.../prices/?channel=CHID&delta=1359705447	
Response	<pre> TBPRICES changedate="1359705447"> <ARTICLE> <A-NR>4688-pi-42</A_NR> <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> </ARTICLE> ... </TBPRICES> </pre>	

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").

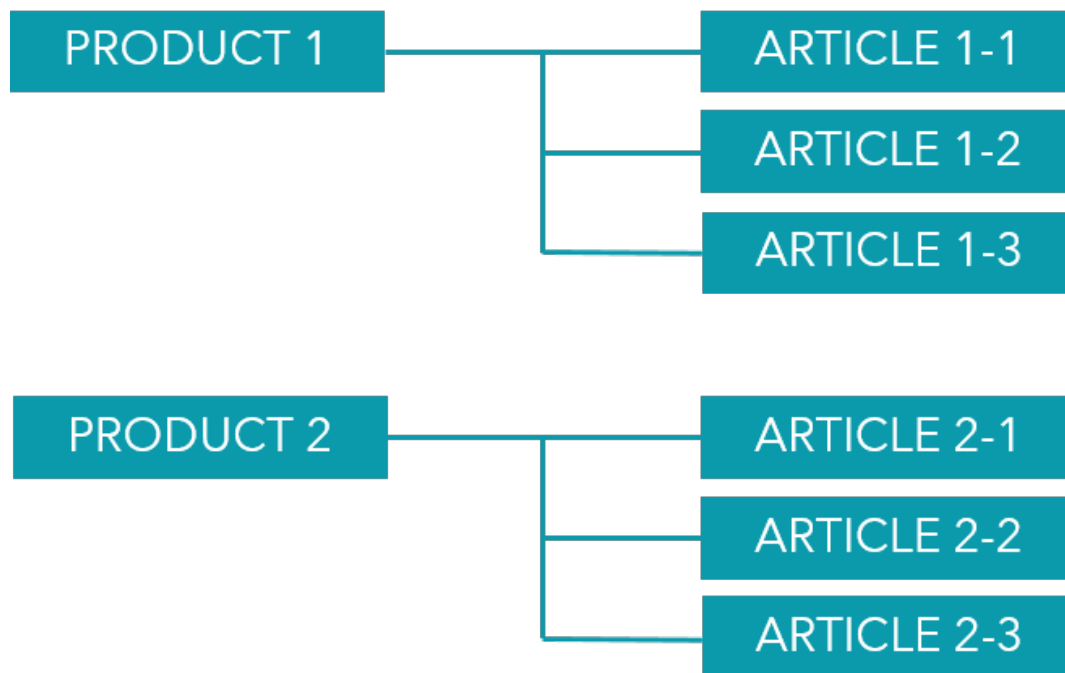


A full load of product data is allowed once a day. A full load of inventory data is permitted only once an hour in the standard. Please agree with your Tradebyte contact upon the time of full load.

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:



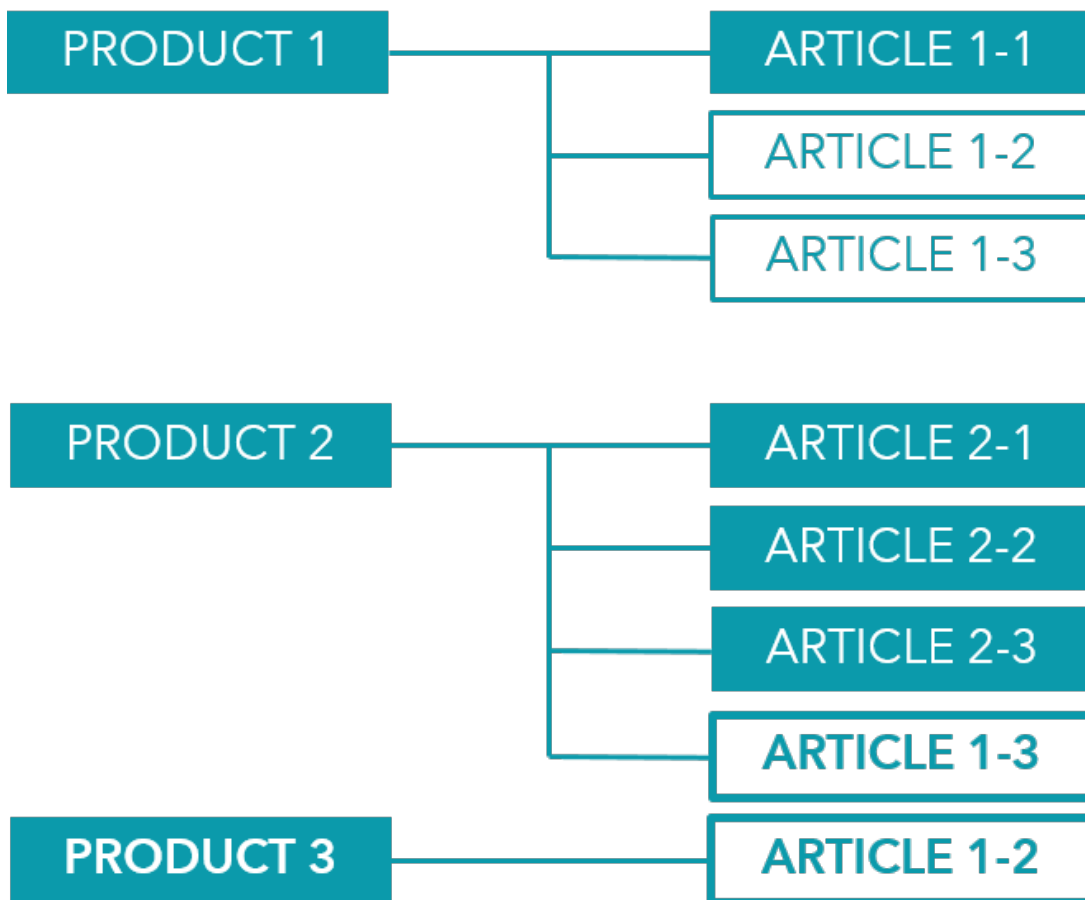
4.1 UNIQUE REFERENCE / IDENTIFICATION FO PRODUCTS AND ARTICLES

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 "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". 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".

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

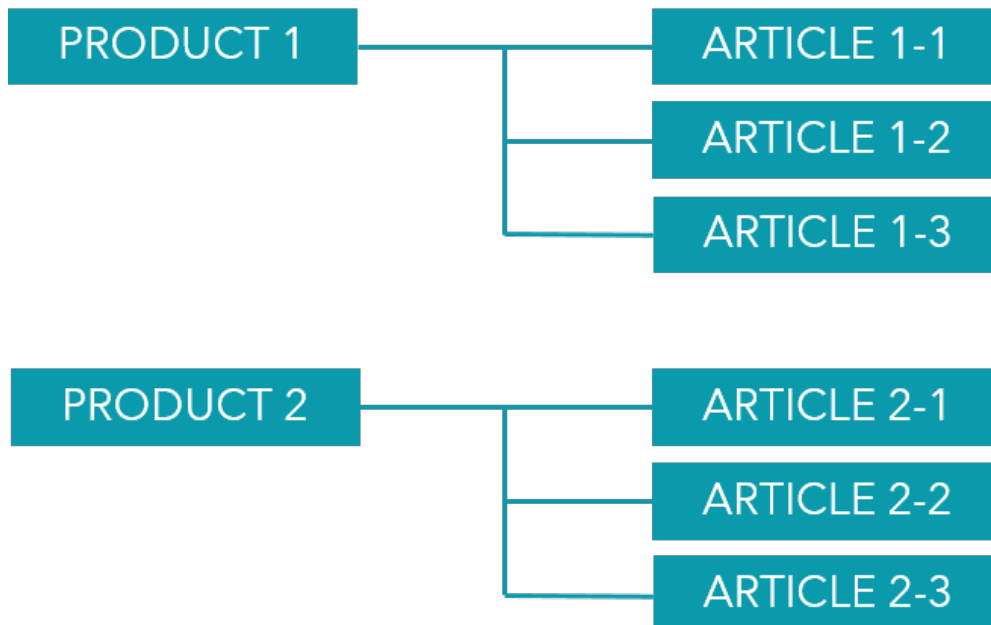
```
<TBCATALOG channel="chxx" creation="1359555698">      <!-- Creation timestamp -->
  <PRODUCTDATA type="delta">                          <!-- Call mode "Delta-Load" -->
    <!-- delta request control: 1359554835             <!-- requested timestamp -->
      <Product 1>
        <Article 1-1>
        <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". Grayed products/articles are activated, white products/articles are disabled.



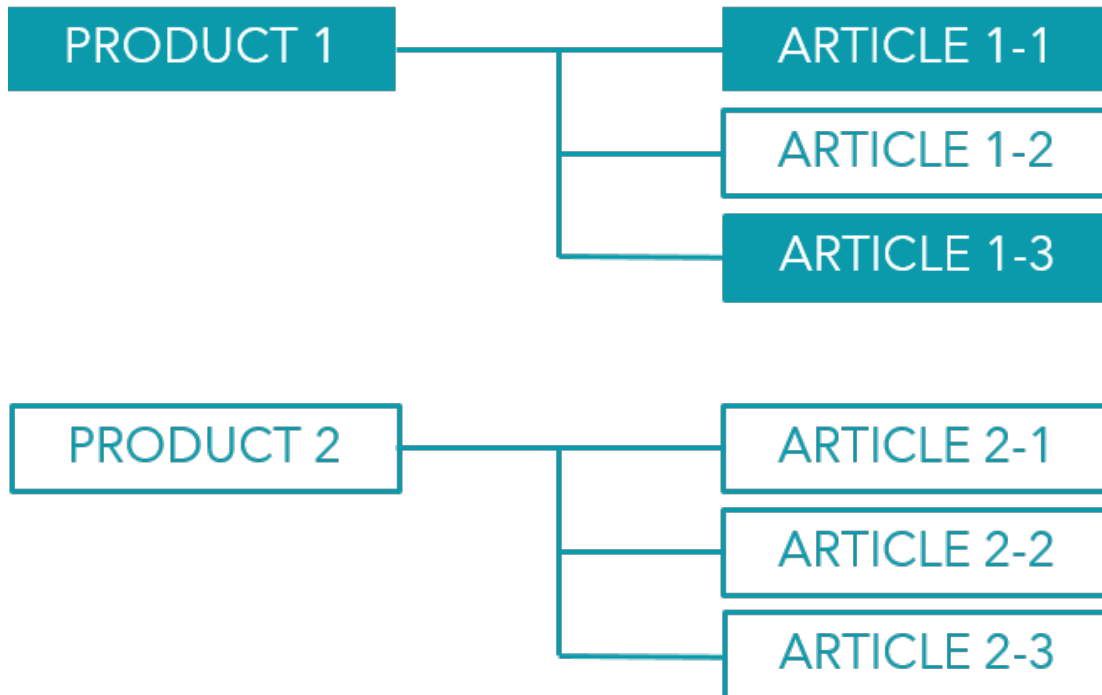
In the corresponding full load, you receive (schematic representation):

```
<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>
```

4.6 PRODUCT DATA CATALOG WITH CHANGE OF PRODUCT DATA

Before delivery of the next catalog, the deactivated 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!

4.7 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="13595556548">
  <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".

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"?>      <!-- creation timestamp -->
<TBSTOCK changedate="1378374296">
  <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".



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".



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 on 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" name="Superjackenmeister" />
<P_COMPONENTDATA>
  <P_COMPONENT identifier="key" key="width" name="Breite">
    <VALUE xml:lang="de-DE">30cm</VALUE>
  </P_COMPONENT>
  <P_COMPONENT identifier="key" key="color" name="Farbe">
    <VALUE xml:lang="de-DE">Grün</VALUE>
  </P_COMPONENT>
</P_COMPONENTDATA>
<P_TAGS>
<P_TAGS>
  <P_TAG identifier="key" key="gender" name="Zielgruppe">
    <VALUES>
      <VALUE identifier="key" key="male" name="Herren" />
    </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="de-DE">30cm</VALUE>
```

```

</P_COMPONENT>
<P_COMPONENT identifier="name" key="Farbe">
  <VALUE xml:lang="de-DE">Grün</VALUE>
</P_COMPONENT>
</P_COMPONENTDATA>
<P_TAGS>
<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" />
    <P_COMPONENTDATA>
      <P_COMPONENT identifier="id" key="4">
        <VALUE xml:lang="de-DE">100% Jackenmaterial</VALUE>
      </P_COMPONENT>
    </P_COMPONENTDATA>
    <P_TAGS>
      <P_TAG identifier="id" key="55">
        <VALUES>
          <VALUE identifier="id" key="1953" />
        </VALUES>
      </P_TAG>
    ...
  </PRODUCT>
</PRODUCTDATA>

```

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="de-DE">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="de-DE">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.

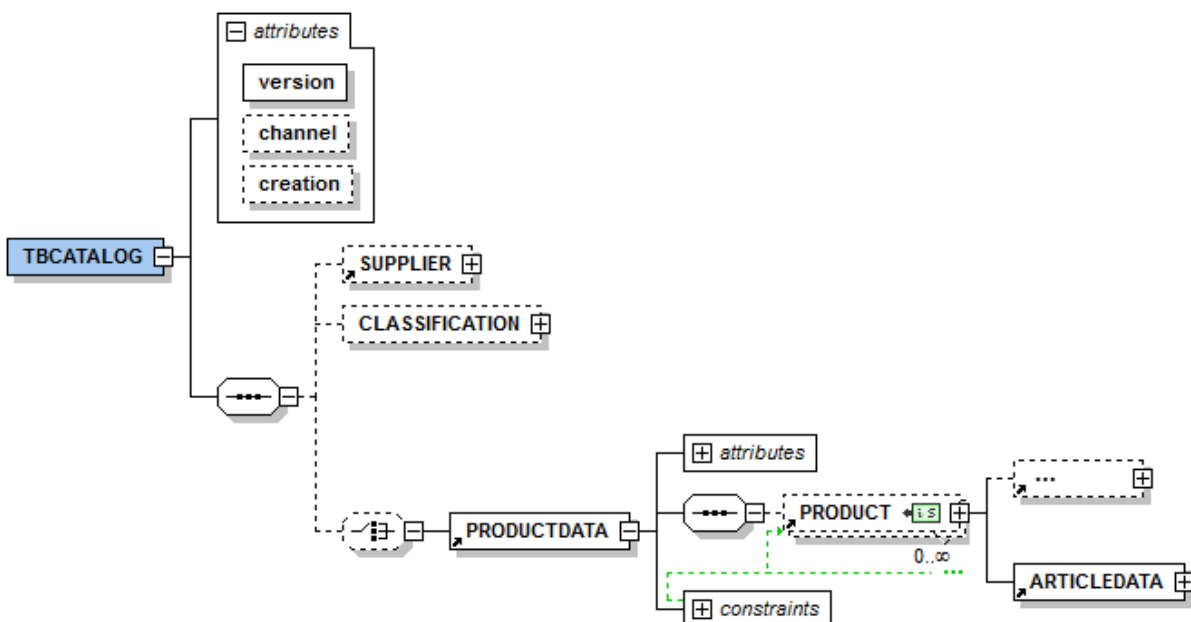


Please regard the visualisation of the fields concerning mandatory and optional nodes! In screenshots, solid lines indicate a mandatory information, dotted lines indicate optional information. Within the following chapters, the declaration of mandatory and optional fields exclusively refers to the respective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

Example:

At "TBCATALOG" 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>.

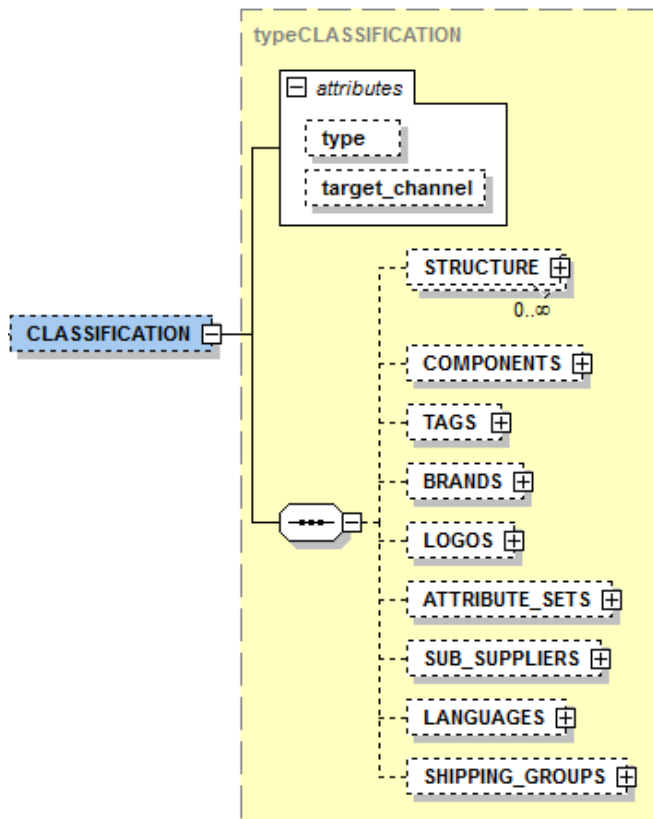
9.1 TBCATALOG



NODE	MUST	DATA TYPE	DESCRIPTION
<?xml version="1.0" encoding="UTF-8"?>	Y	XML	Coding of the export file, currently always UTF-8

NODE	MUST	DATA TYPE	DESCRIPTION
TBCATALOG	Y	XML	Root node
version	Y	XML	TB.Cat version, here 1.4
SUPPLIER	N	XML	Information on data supplier, if several
CLASSIFICATION	N	XML	Classification part of the ID definition of the category tree, components, attributes, brands and logos if it is referenced by IDs (see chap. 7 ²⁰)
PRODUCTDATA	N	XML	Product data
ARTICLEDATA	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 prod-uct data refers to those data via an ID, this node is transferred. If the data is referred to by means of a key, the classifi-cation data is dropped and the key of the receiver is transferred within the product data (see also chap.7.3).



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 an mandatory values for the merchants, the seperate manual "Classification Push" (No. 1005) is available.

NODE	MUST	DATA TYPE	DESCRIPTION
attributes	N	XML	Only relevant for the import
STRUCTURE	N	XML	Category tree; in a tree strucure of categories the PARENT_ID identifies the structure, i.e. the next higher-level category. In a flat

NODE	MUST	DATA TYPE	DESCRIPTION
			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)
LANGUAGES	N	XML	Definition of export keys for languages
SHIPPING_GROUPS	N	XML	Definition of shipping types

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>hofre</KEY>
    <NAME>Hosenfreund</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>

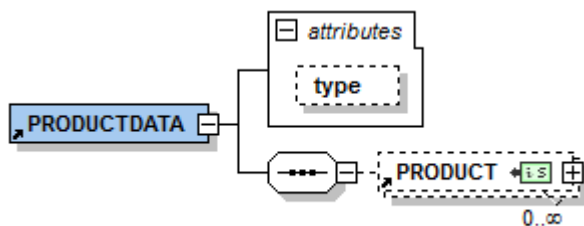
```

```

<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>Hosenfreund GmbH</NAME>
    <PREFIX>HOF-</PREFIX>
  </SUB_SUPPLIER>
  <SUB_SUPPLIER>
    <ID>5</ID>
    <KEY>4712</KEY>
    <NAME>Superjackenmeister AG</NAME>
    <PREFIX>SUJ-</PREFIX>
  </SUB_SUPPLIER>
</SUB_SUPPLIERS>
<LANGUAGES>
  <LANGUAGE>
    <ID>58</ID>
    <KEY>de_DE</KEY>
    <NAME>Deutsch</NAME>
    <MANDATORY>true</MANDATORY>
  </LANGUAGE>
  <LANGUAGE>
    <ID>59</ID>
    <KEY>en_US</KEY>
    <NAME>Englisch</NAME>
  </LANGUAGE>
</LANGUAGES>
<SHIPPING_GROUPS>
  <SHIPPING_GROUP>
    <ID>58</ID>
    <NAME>paketversandfähig</NAME>
  </SHIPPING_GROUP>
  <SHIPPING_GROUP>
    <ID>59</ID>
    <NAME>Spedition 1-Mann-Handling</NAME>
  </SHIPPING_GROUP>
</SHIPPING_GROUPS>
</CLASSIFICATION>

```

9.3 TBCATALOG / PRODUCTDATA



Example-XML

NODE	MUST	DATA TYPE	DESCRIPTION
PRODUCTDATA	Y		Product data
PRODUCTDATA[type]	N	ENUM	Type of transmited product data Possible values are: full = full product data catalog delta = delta load with changes
PRODUCT	J	XML	Daten zu einem Produkt. Der Knoten kann beliebig oft enthalten sein.

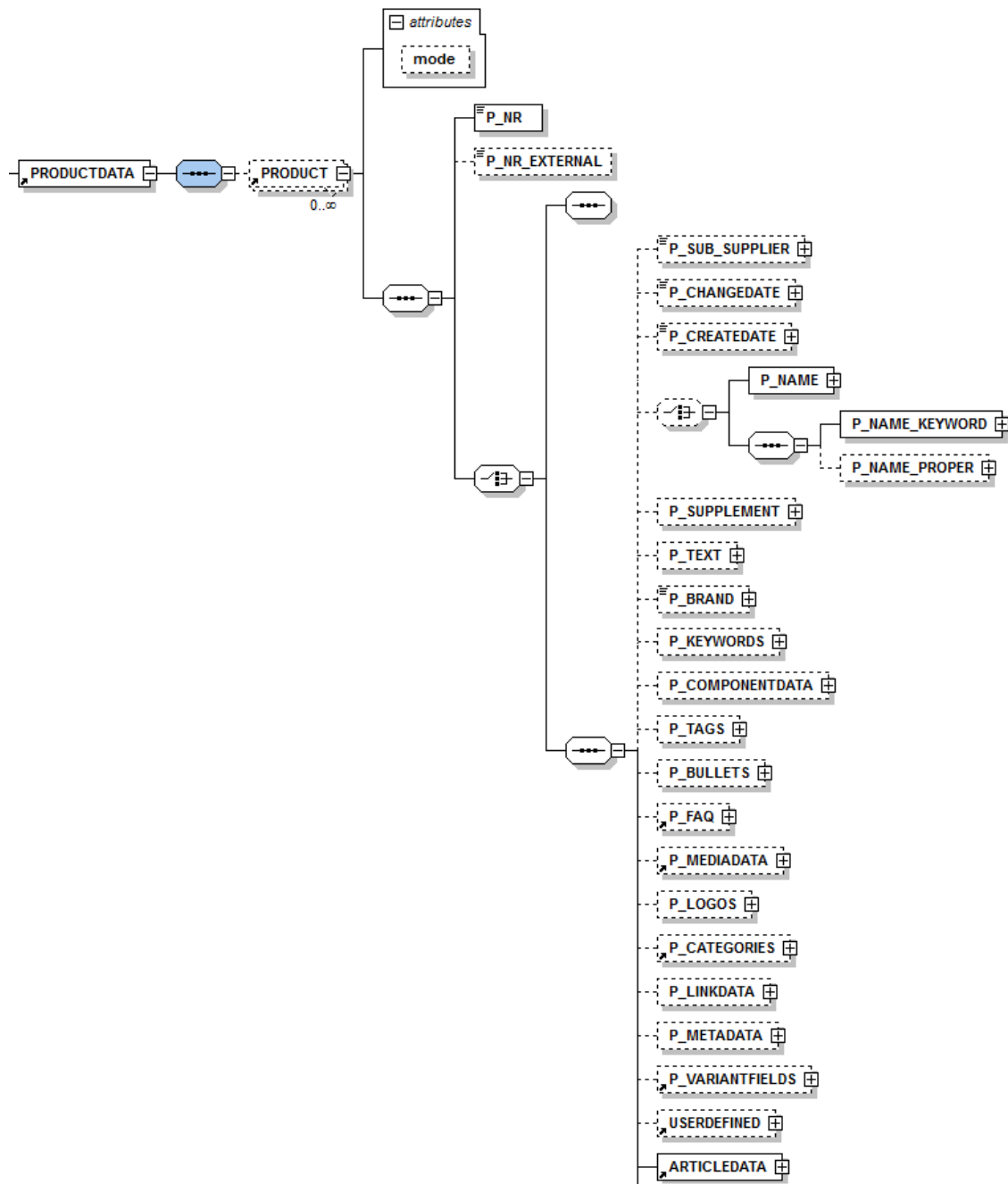
Example XML

```

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

```

9.4 TBCATALOG / PRODUCTDATA / PRODUCT

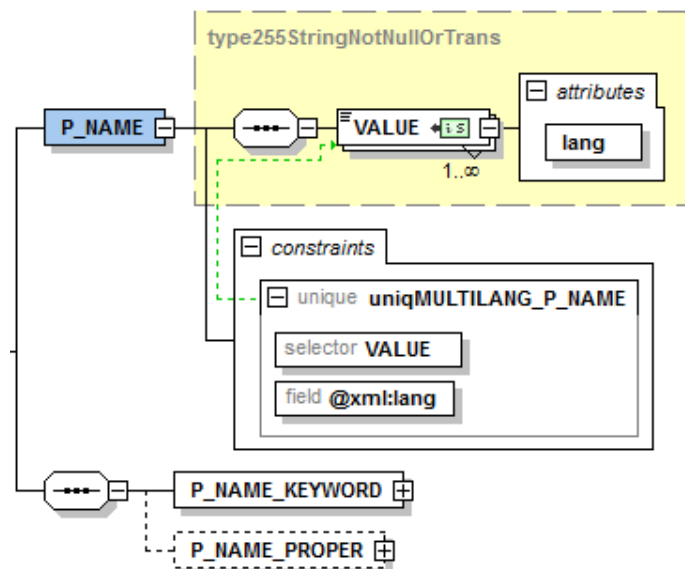


NODE	MUST	DATA TYPE	DESCRIPTION
mode	N	string	If a product is to be deleted you'll receive here <mode="delete"> (only delta load).

NODE	MUST	DATA TYPE	DESCRIPTION
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 last product creation
P_NAME ³³	Y	CHAR(255)	Product designation
P_NAME_KEYWORD ³⁶	Y	CHAR(255)	Instead of the product designation P_NAME, the name may also be transferred split into common noun and proer name (e.g. "Jacket Reinhold" vs. "Jacket"/"Reinhold"). This must be arranged seperately. Per default, P_NAME is provided here.
P_NAME_PROPER	N	CHAR(255)	
P_SUPPLEMENT ³⁴	N	CHAR(255)	Additional promotional headline for the product
P_TEXT ³⁴	N	TEXT	Product description (body text)
P_BRAND ³⁵	N	XML	Brand

NODE	MUST	DATA TYPE	DESCRIPTION
P_KEYWORDS ³⁶	N	XML	Keywords/search terms for this product
P_COMPONENTDATA ³⁷	N	XML	Product components
P_TAGS ³⁸	N	XML	Product attributes
P_BULLETS ⁴⁰	N	XML	Bullet points
P_FAQ ⁴⁰	N	XML	Not in use by default
P_MEDIADATA ⁴¹	N	XML	Product media (images, documents, ...)
P_LOGOS ⁴²	N	XML	Product logos (care instructions, ...)
P_CATEGORIES ⁴³	N	XML	Category assignments
P_LINKDATA ⁴⁴	N	XML	Links (cross-selling, accessories, ...)
P_METADATA	-	XML	Not in use by default
P_VARIANTFIELDS ⁴⁵	N	XML	For products with variants: definition for the variant forming properties
USERDEFINED ⁴⁶	N	XML	Custom fields
ARTICLEDATA ⁴⁷	J	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	The product designation can be provided in one field (P_NAME) or in the two fields common noun and proper name (P_NAME_KEYWORD and P_NAME_PROPER).
VALUE xml:lang="lang"	J	TEXT	Definition of the language with the corresponding translation

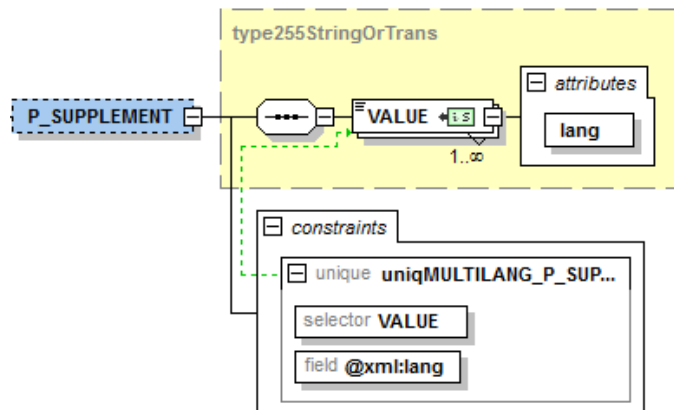
Example XML

```
<P_NAME>
  <VALUE xml:lang="de-DE">Outdoor-Jacke Reinhold</VALUE>
  <VALUE xml:lang="en-US">Outdoor-Jacket Reinhold</VALUE>
</P_NAME>
```

or

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

9.6 TBCATALOG / PRODUCTDATA / PRODUCT / P_SUPPLEMENT

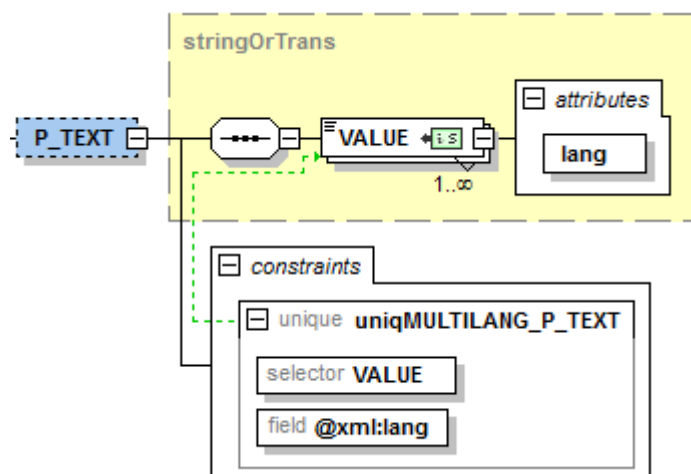


NODE	MUST	DATA TYPE	DESCRIPTION
P_SUPPLEMENT	N	TEXT	The special text is for example a second advertising headline.
VALUE xml:lang="lang"	Y	TEXT	Definition of the language with appropriate text

Example XML

```
<P_SUPPLEMENT>
  <VALUE xml:lang="de-DE">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 language with value

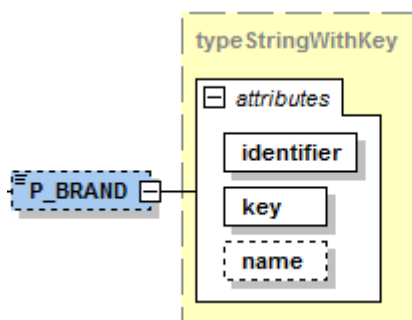
Example XML

```

<P_TEXT>
  <VALUE xml:lang="de-DE">
    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 Witte- rung, Kälte,
    Nässe und Sturm. Die Outdoorjacke "Reinhold" ist ein sehr anpas- sungsfähiger Allrounder
    für das ganze Jahr, die Sie begeistern wird.
  </VALUE>
</P_TEXT>

```

9.8 TBCATALOG / PRODUCTDATA / PRODUCT / P_BRAND



KNOTEN	PFLICHT	DATENTYP	BESCHREIBUNG
P_BRAND	N	- leer -	Marke des Produkts
P_BRAND[identifier]	J	ENUM	Kennzeichen zur Referenzierung
P_BRAND[key]	J	CHAR(50)	Wert zur in <i>identifier</i> hinterlegten Zuordnungsangabe
P_BRAND[name]	N	CHAR(100)	NAme zur in <i>identifier</i> hinterlegten Zuordnungsangabe

Example XML (key-based)

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

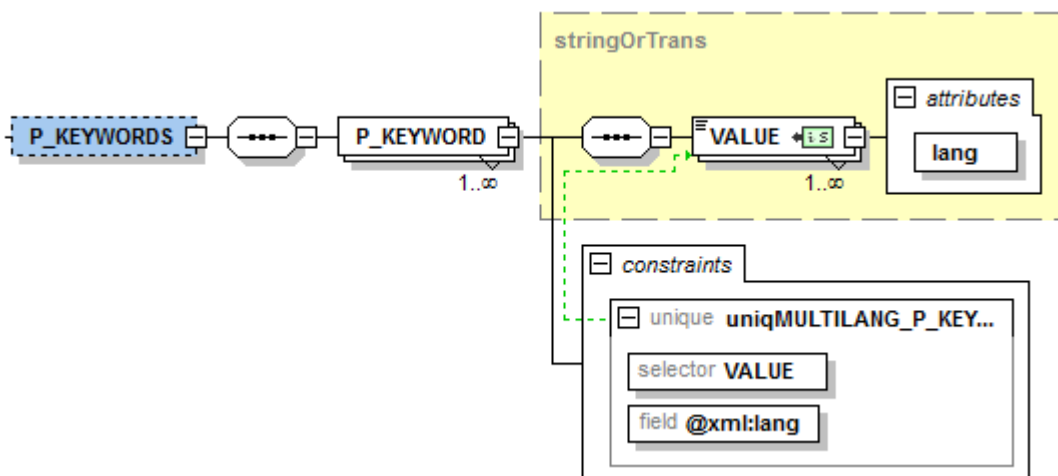
Example XML (name-based)

```
<P_BRAND identifier="name" key="Superjackenmeister" />
```

Example XML (ID-based)

```
<P_BRAND identifier="ID" key="4712" />
```

9.9 TBCATALOG / PRODUCTDATA / PRODUCT / P_KEYWORDS

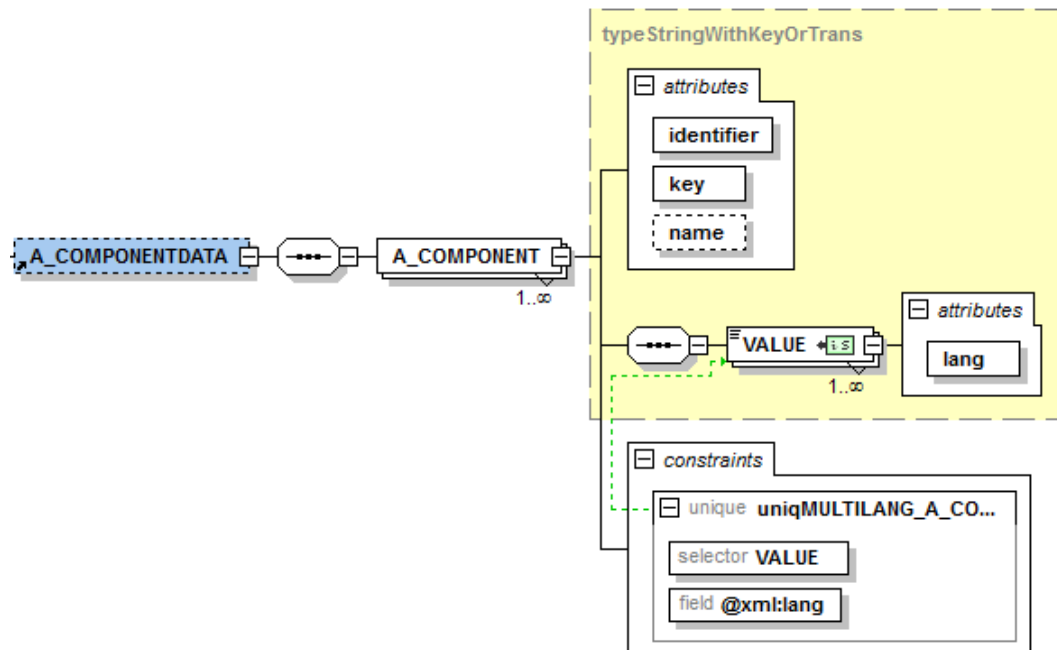


NODE	MUST	DATA TYPE	DESCRIPTION
P_KEYWORDS	N	-empty-	Search terms for the product
P_KEYWORD	Y	CHAR(255)	Single search term
VALUE xml:lang="lang"	N	TEXT	Definition of the language with value

Example XML

```
<P_KEYWORDS>
  <P_KEYWORD>
    <VALUE xml:lang="de-DE">Kapuzenjacke</VALUE>
  </P_KEYWORD>
  <P_KEYWORD>
    <VALUE xml:lang="de-DE">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	XML	Product components
P_COMPONENT	Y	TEXT	Text of the product component
P_COMPONENT[identifier]	Y	ENUM	Identifier for referencing ²⁰
P_COMPONENT[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement
P_COMPONENT[name]	N	CHAR(100)	Name stored in the <i>identifier</i> assignment statement
VALUE xml:lang="lang"	N	TEXT	Definition of the language

Example XML (key-based)

```

<P_COMPONENTDATA>
  <P_COMPONENT identifier="key" key="width" name="Breite">
    <VALUE xml:lang="de-DE">30cm</VALUE>
  </P_COMPONENT>
  <P_COMPONENT identifier="key" key="color" name="Farbe">
    <VALUE xml:lang="de-DE">Grün</VALUE>
    <VALUE xml:lang="en-US">Green</VALUE>
  </P_COMPONENT>
</P_COMPONENTDATA>

```

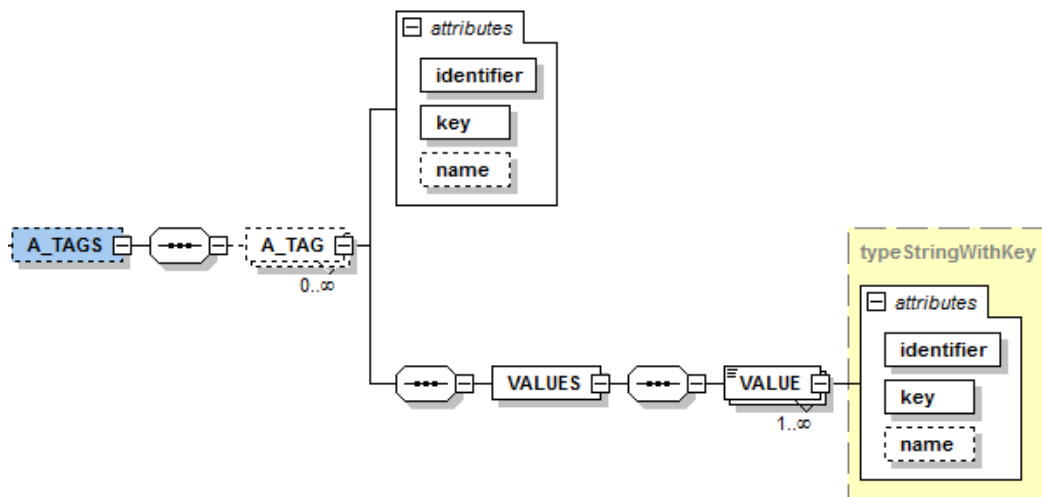
Example XML (name-based)

```
<P_COMPONENTDATA>
  <P_COMPONENT identifier="name" key="Breite">
    <VALUE xml:lang="de-DE">30cm</VALUE>
  </P_COMPONENT>
  <P_COMPONENT identifier="name" key="Farbe">
    <VALUE xml:lang="de-DE">Grün</VALUE>
    <VALUE xml:lang="en-US">Green</VALUE>
  </P_COMPONENT>
</P_COMPONENTDATA>
```

Example XML (ID-based)

```
<P_COMPONENTDATA>
  <P_COMPONENT identifier="ID" key="12">
    <VALUE xml:lang="de-DE">30cm</VALUE>
  </P_COMPONENT>
  <P_COMPONENT identifier="ID" key="13">
    <VALUE xml:lang="de-DE">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 ²⁰
P_TAG[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement

NODE	MUST	DATA TYPE	DESCRIPTION
P_TAG[name]	N	CHAR(100)	Name stored in the <i>identifier</i> assignment statement
VALUES	Y	XML	Attribute values
VALUE	Y	XML	Single attribute value
VALUE[identifier]	Y	ENUM	Identifier for referencing ²⁰
VALUE[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement
VALUE[name]	N	CHAR(500)	Name stored in the <i>identifier</i> assignment statement

Example XML (key-based)

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

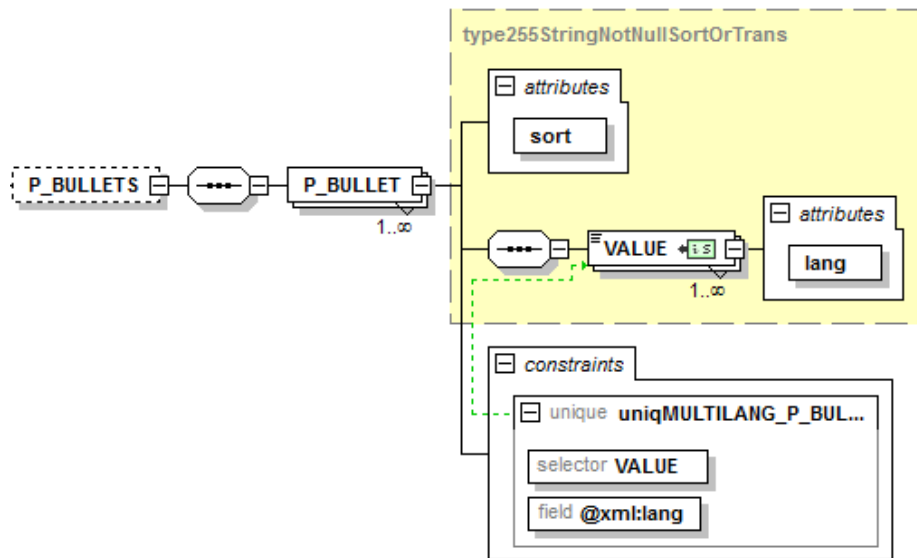
Example XML (name-based)

```
<P_TAGS>
  <P_TAG identifier="name" key="Zielgruppe">
    <VALUES>
      <VALUE identifier="name" key="männlich" />
    </VALUES>
  </P_TAG>
</P_TAGS>
```

Example XML (ID-based)

```
<P_TAGS>
  <P_TAG identifier="ID" key="15">
    <VALUES>
      <VALUE identifier="ID" key="17" />
    </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 with value

Example XML

```

<P_BULLETS>
  <P_BULLET sort="10">
    <VALUE xml:lang="de-DE">atmungsaktiv</VALUE>
  </P_BULLET>
  <P_BULLET sort="20">
    <VALUE xml:lang="de-DE">wasserdicht</VALUE>
  </P_BULLET>
  <P_BULLET sort="30">
    <VALUE xml:lang="de-DE">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 when using 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.

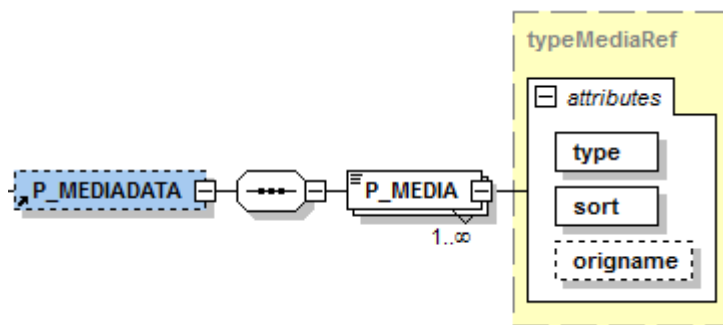
Generally, we differentiate between product and article media. A product medium applies to the entire product, an article medium for the designated variant.



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

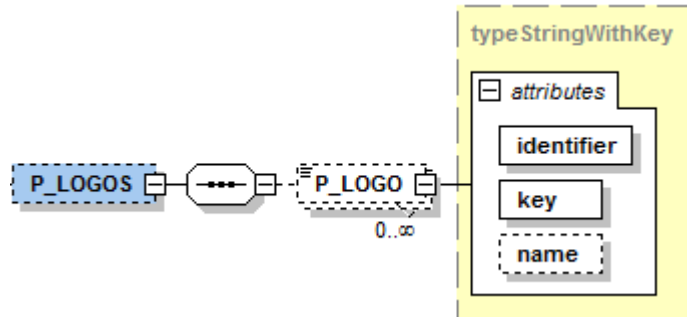
```

<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>

```

9.15 TBCATALOG / PRODUCTDATA / PRODUCT / P_LOGO

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	- leer -	Product logo
P_LOGO[identifier]	Y	ENUM	Identifier for referencing ²⁰
P_LOGO[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement
P_LOGO[name]	N	CHAR(100)	Name stored in the <i>identifier</i> assignment statement

Example XML (key-based)

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

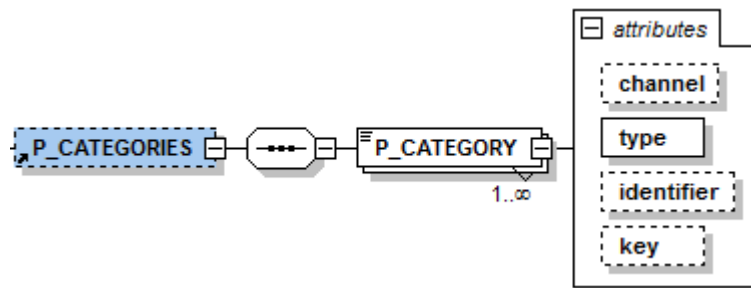
Example XML (name-based)

```
<P_LOGOS>
  <P_LOGO identifier="name" key="Maschinenwäsche" />
  <P_LOGO identifier="name" key="links bügeln" />
</P_LOGOS>
```

Example XML (ID-based)

```
<P_LOGOS>
  <P_LOGO identifier="ID" key="18" />
  <P_LOGO identifier="ID" key="19" />
</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 ²⁰
P_CATEGORY[key]	N	CHAR(50)	Value stored in the <i>identifier</i> assignment statement

Example XML (key-based)

```

<P_CATEGORIES>
  <P_CATEGORY channel="chxx" type="primary" identifier="key" key="T0815"
    name="Markenshops|Leuchtenfirma" />
</P_CATEGORIES>
  
```

Example XML (name-based)

```

<P_CATEGORIES>
  <P_CATEGORY channel="chxx" type="primary" identifier="name" key="Markenshops|
    Leuchtenfirma" />
</P_CATEGORIES>
  
```

Example XML (ID-based)

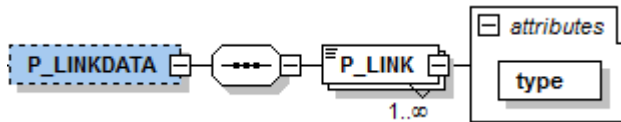
```

<P_CATEGORIES>
  <P_CATEGORY channel="chxx" type="primary" identifier="name" key="Markenshops|
    Leuchtenfirma" />
  
```

</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]	Y	ENUM	Link type												
			<table><tr><th>TYPE</th><th>DESCRIPTION</th></tr><tr><td>cross</td><td>Combination option/further articles</td></tr><tr><td>accessory</td><td>Accessory to the product</td></tr><tr><td>device</td><td>Product to accessory</td></tr><tr><td>upselling</td><td>Recommendation</td></tr><tr><td>alternative</td><td>Alternative offer</td></tr></table>	TYPE	DESCRIPTION	cross	Combination option/further articles	accessory	Accessory to the product	device	Product to accessory	upselling	Recommendation	alternative	Alternative offer
TYPE	DESCRIPTION														
cross	Combination option/further articles														
accessory	Accessory to the product														
device	Product to accessory														
upselling	Recommendation														
alternative	Alternative offer														

Example XML

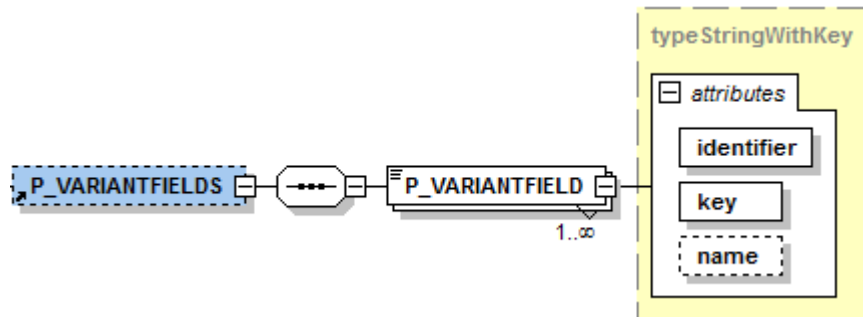
```

<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 ²⁰
P_VARIANTFIELD[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement
P_VARIANTFIELD[name]	N	CHAR(100)	Name stored in the <i>identifier</i> assignment statement

Example XML (key-based)

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

Example XML (name-based)

```
<P_VARIANTFIELDS>
  <P_VARIANTFIELD identifier="name" key="Größe" />
  <P_VARIANTFIELD identifier="name" key="Farbe" />
</P_VARIANTFIELDS>
```

Example XML (ID-based)

```
<P_VARIANTFIELDS>
```

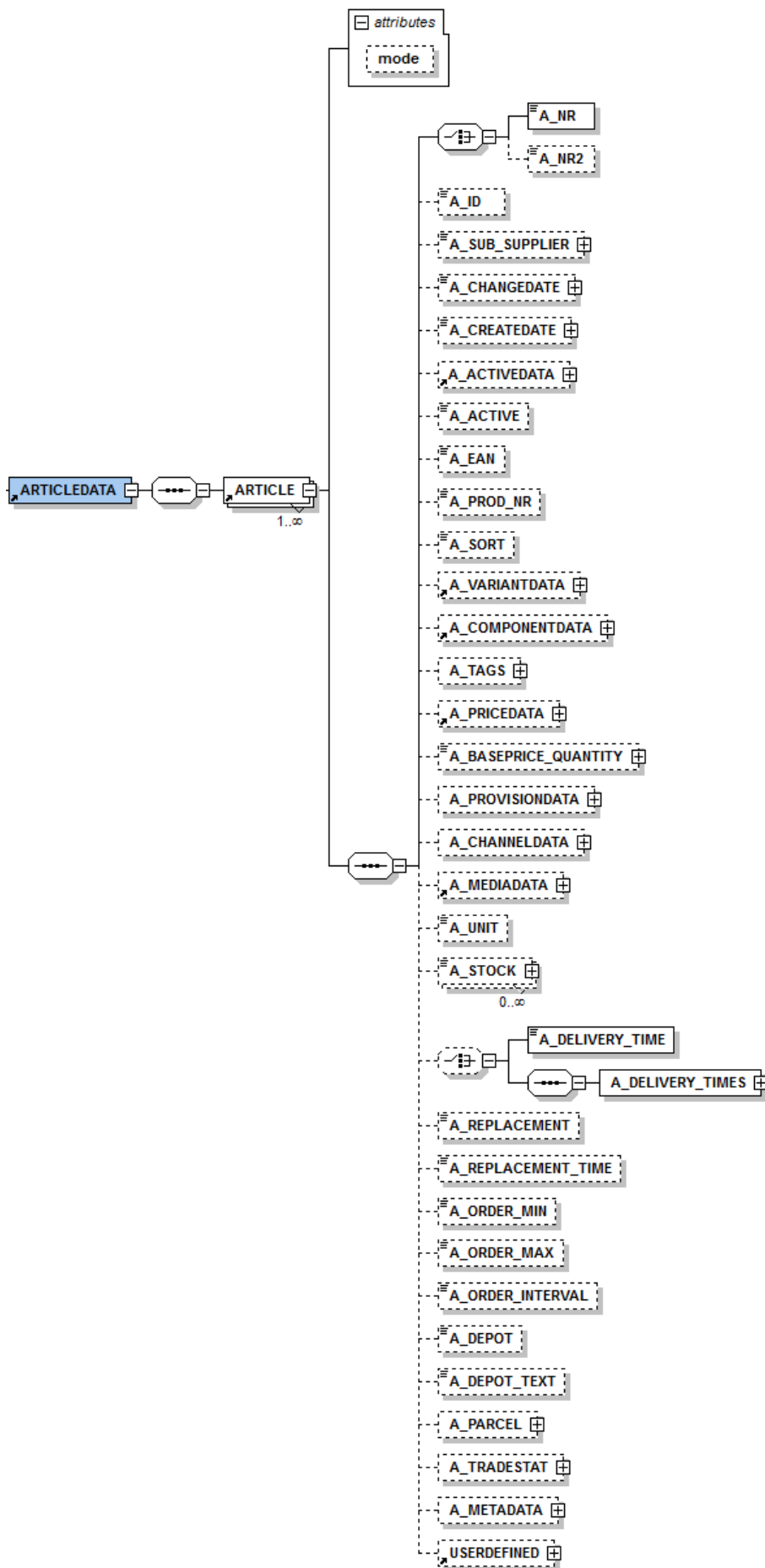
```
<P_VARIANTFIELD identifier="ID" key="20" />  
<P_VARIANTFIELD identifier="ID" key="21" />  
</P_VARIANTFIELDS>
```

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) is defined.



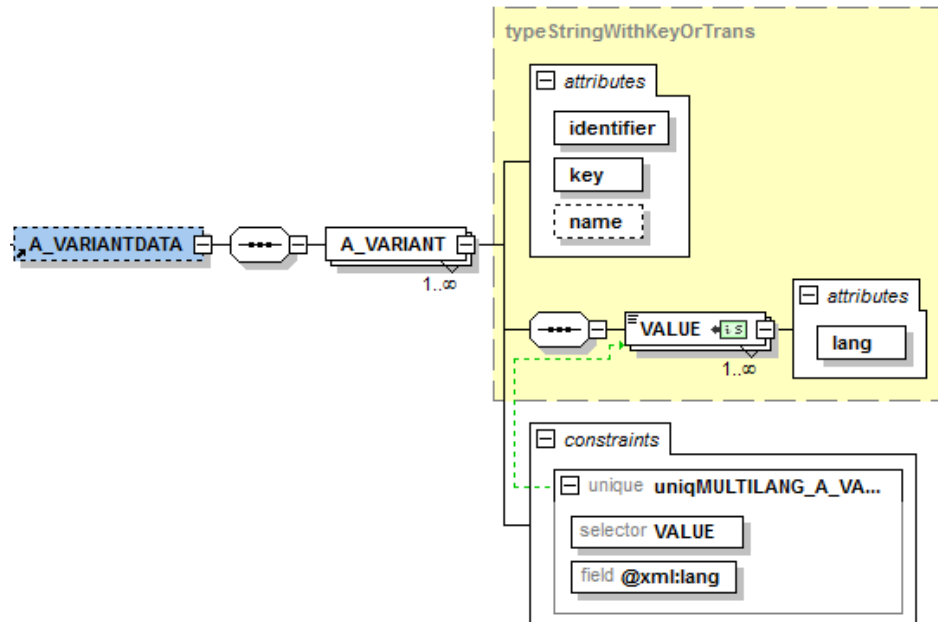
NODE	MUST	DATA TYPE	DESCRIPTION
ARTICLEDATA	Y	array	Article data node
ARTICLE	Y	array	Data for an article
mode	N	string	If an article is to be deleted, this node contains <node="delete">. The default value is update.
A_NR	Y	CHAR(50)	Article number. This may change.
A_NR2	N	CHAR(50)	Additional second 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 time stamp of the last article change
A_CREATEDATE	N	Unix	Unix time stamp of the article creation
A_ACTIVATEDATA	N	XML	Activation flag for the article including the channel sign. Only active articles will be communicated.
A_ACTIVE	N	INT(0/1)	Article active, always 1 Disabled articles are no longer provided.

NODE	MUST	DATA TYPE	DESCRIPTION
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 ⁵²	N	XML	Variant values
A_COMPONENTDATA ⁵³	N	XML	Article components
A_TAGS ⁵⁵	N	XML	Article attributes
A_PRICEDATA ⁵⁷	N	XML	Price and tax information
A_BASEPRICE QUANTITY ⁵⁸	N	INT	Reference data for base price calculation
A_PROVISIONDATA ⁵⁹	N	XML	Commission information for channels
A_CHANNELDATA	N	XML	Channel article number
A_MEDIADATA ⁶⁰	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 or QM. Floating point numbers are not supported at orders/stocks.

NODE	MUST	DATA TYPE	DESCRIPTION
A_STOCK	N	INT	Stock
A_DELIVERY_TIME/S ⁶¹	N	INT	Delivery time in business days
A_REPLACEMENT	N	INT(0/1)	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 ⁶²	N	XML	Information on delivery type and shipping dimensions
A_TRADESTAT ⁶⁴	N	XML	IntraStat number and country of origin
A_METADATA	N	XML	Not in use by default
USERDEFINED ⁴⁶	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 ²⁰
A-VARIANT[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement
A_VARIANT[name]	N	CHAR(100)	Name stored in the <i>identifier</i> assignment statement
VALUE xml:lang="lang"	Y	TEXT	Definition of the language

Example XML (key-based)

```

<A_VARIANTDATA>
  <A_VARIANT identifier="key" key="color" name="Farbe">

```

```
<VALUE xml:lang="de-DE">Hellgrün</VALUE>
<VALUE xml:lang="en-US">light green</VALUE>
</A_VARIANT>
<A_VARIANT identifier="key" key="size" name="Größe">
  <VALUE xml:lang="de-DE">XL</VALUE>
</A_VARIANT>
</A_VARIANTDATA>
```

Example XML (name-based)

```
<A_VARIANTDATA>
  <A_VARIANT identifier="name" key="Farbe">
    <VALUE xml:lang="de-DE">Hellgrün</VALUE>
    <VALUE xml:lang="en-US">light green</VALUE>
  </A_VARIANT>
</A_VARIANTDATA>
```

Example XML (ID-based)

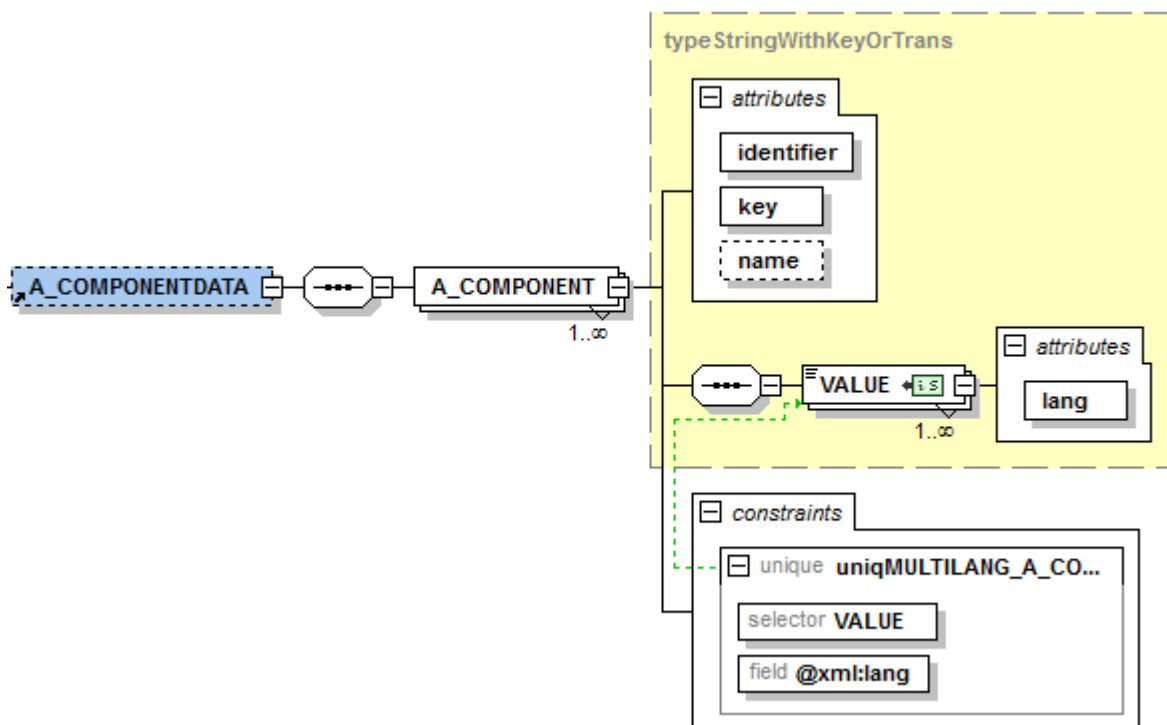
```
<A_VARIANTDATA>
  <A_VARIANT identifier="ID" key="26">
    <VALUE xml:lang="de-DE">Hellgrün</VALUE>
    <VALUE xml:lang="en-US">light green</VALUE>
  </A_VARIANT>
  <A_VARIANT identifier="ID" key="27">
    <VALUE xml:lang="de-DE">XL</VALUE>
  </A_VARIANT>
</A_VARIANTDATA>
```

9.22 TBCATALOG / ARTICLEDATA / ARTICLE / A_COMPONENTDATA

Components on article level (see also [P_COMPONENTDATA](#)³⁷) differ for each article, but do not form variants.

Example:

An 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 ²⁰
A_COMPONENT[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement
A_COMPONENT[name]	N	CHAR(100)	Name stored in the <i>identifier</i> assignment statement
VALUE xml:lang="lang"	Y	TEXT	Definition of the language

Example XML (key-based)

```

<A_COMPONENTDATA>
  <A_COMPONENT identifier="key" key="readspeed" name=Geschwindigkeit">
    <VALUE xml:lang="de-DE">45 MB/s</VALUE>
    <VALUE xml:lang="en-US">45 MB/s</VALUE>
  </A_COMPONENT>
</A_COMPONENTDATA>

```

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

Example XML (name-based)

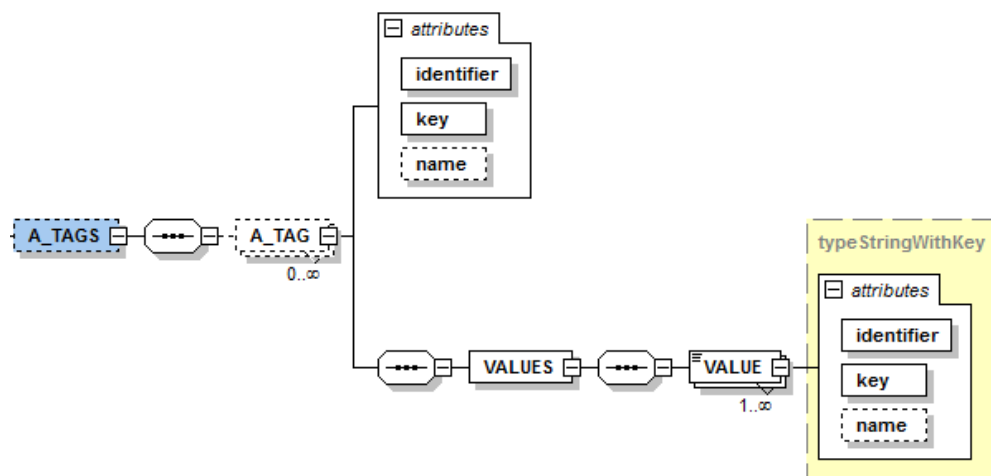
```
<A_COMPONENTDATA>
  <A_COMPONENT identifier="name" key="Geschwindigkeit">
    <VALUE xml:lang="de-DE">45 MB/s</VALUE>
    <VALUE xml:lang="en-US">45 MB/s</VALUE>
  </A_COMPONENT>
</A_COMPONENTDATA>
```

Example XML (ID-based)

```
<A_COMPONENTDATA>
  <A_COMPONENT identifier="ID" key="30">
    <VALUE xml:lang="de-DE">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](#)³⁸).



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 ²⁰
A_TAG[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement

NODE	MUST	DATA TYPE	DESCRIPTION
A_TAG[name]	N	CHAR(100)	Name stored in the <i>identifier</i> assignment statement
VALUES	Y	XML	Attribute values
VALUE	Y	XML	Single attribute value
VALUE[identifier]	Y	ENUM	Identifier for referencing ²⁰
VALUE[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement
VALUE[name]	N	CHAR(100)	Name stored in the <i>identifier</i> assignment statement

Example XML (key-based)

```

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

```

Example XML (name-based)

```

<A_TAGS>
  <A_TAG identifier="name" key="Basisfarbe">
    <VALUES>
      <VALUE identifier="name" key="Rot" />
    </VALUES>
  </A_TAG>
</A_TAGS>

```

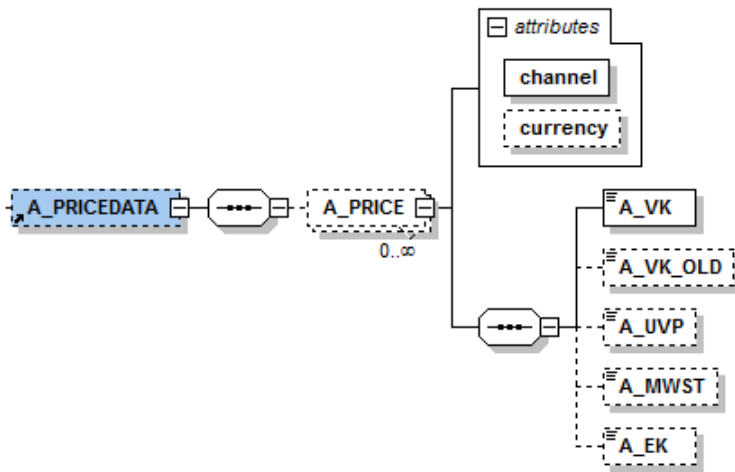
Example XML (ID-based)

```

<A_TAGS>
  <A_TAG identifier="ID" key="40">
    <VALUES>
      <VALUE identifier="ID" key="60" />
    </VALUES>
  </A_TAG>
</A_TAGS>

```

9.24 TBCATALOG / ARTICLEDATA / ARTICLE / A_PRICEDATA



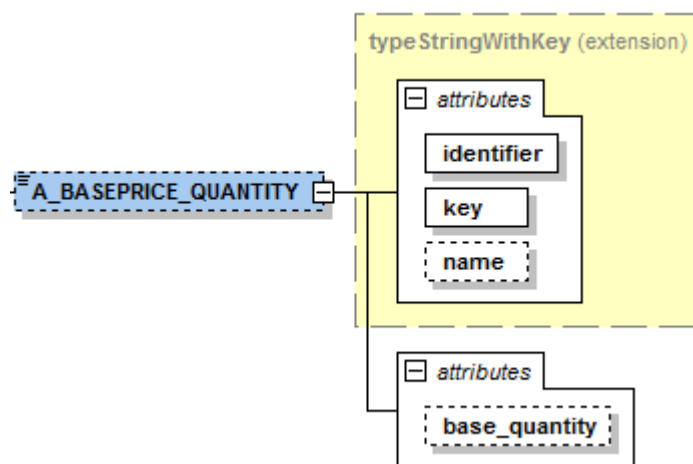
NODE	MUST	DATA TYPE	DESCRIPTION
A_PRICEDATA	N		Article prices
A_PRICE	Y		Pricing
A_PRICE[channel]	Y	CHAR(12)	Channel sign
A_PRICE[currency]	N	ENUM	Currency sign
A_VK	Y	FLOAT	Gross sales price
A_VK_OLD	N	FLOAT	Cross price (former price)
A_UVP	N	FLOAT	Manufacturer's suggested retail price (MSRP)
A_MWST	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">                                <!-- Main channel -->
    <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_PRICE channel="chxx_de" currency="EUR">                            <!-- Sub channel 1 -->
    <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_PRICE channel="chxx_fr" currency="EUR">                            <!-- Sub channel 1 -->
    <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 ²⁰

NODE	MUST	DATA TYPE	DESCRIPTION
A_BASEPRICE_QUANTITY[key]	Y	CHAR(50)	Value stored in the <i>identifier</i> assignment statement
A_BASEPRICE_QUANTITY[name]	N	CHAR(100)	Name stored in the <i>identifier</i> assignment statement

Example XML (key-based)

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

Example XML (name-based)

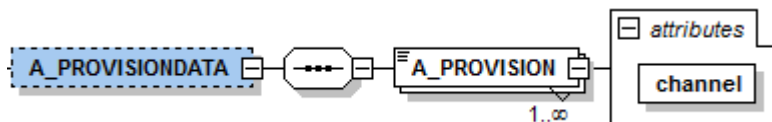
```
<A_BASEPRICE_QUANTITY identifier="name" key="100ml">500</A_BASEPRICE_QUANTITY>
```

Example XML (ID-based)

```
<A_BASEPRICE_QUANTITY identifier="ID" key="02">500</A_BASEPRICE_QUANTITY>
```

9.26 TBCATALOG / ARTICLEDATA / ARTICLE / A_PROVISIONDATA

If you agreed upon the use of commissions, a percentage or a corresponding indicator per article can be transmitted here.



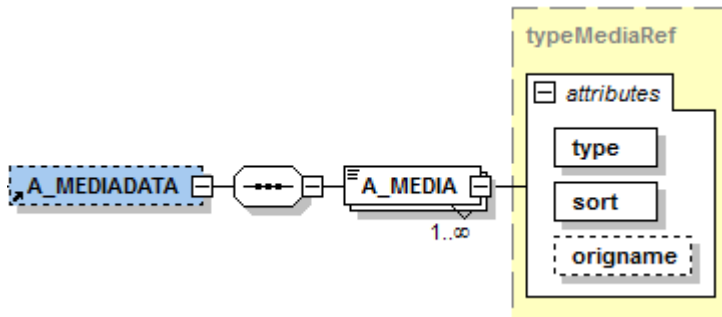
NODE	MUST	DATA TYPE	DESCRIPTION
A_PROVISIONDATA	N		Commission information
A_PROVISION	J	CHAR(50)	Import key of the commission rate from TB.One
A_PROVISION	J	CHAR(12)	Channel indicator

Example XML

```
<A_PROVISIONDATA>
  <A_PROVISION channel="chxx">Gruppe1</A_PROVISION>
  <A_PROVISION channel="chxx">PR00</A_PROVISION>
</A_PROVISIONDATA>
```

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](#)⁴¹.



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 be 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

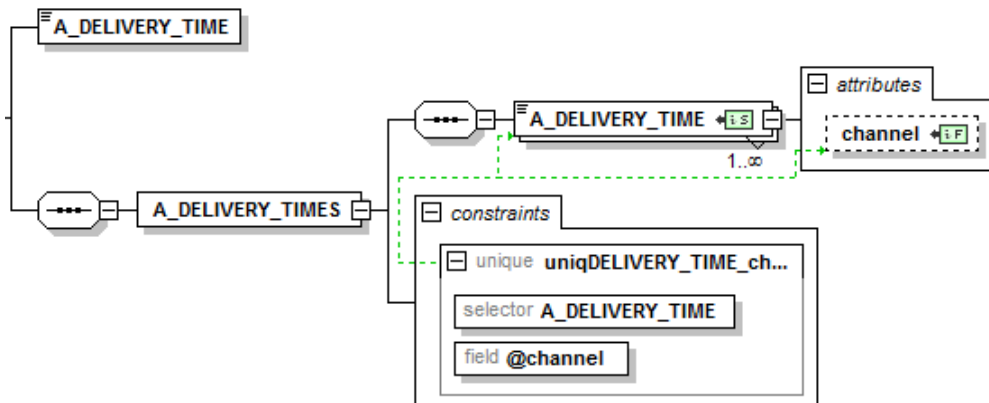
Example XML

```

<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](#)⁴¹ apply accordingly.

9.28 TBCATALOG / ARTICLEDATA / ARTICLE / A_DELIVERY TIME(S)



KNOTEN	PFLICHT	DATENTYP	BESCHREIBUNG
A_DELIVERY_TIME	Y	INT	Delivery time for one target channel
or			
A_DELIVERY_TIMES	Y	XML	Delivery time node at multiple target channels
A_DELIVERY_TIME	Y	INT	Delivery time
A_DELIVER_TIME[channel]	N	CHAR(12)	Channel indicator

Example XML (1 delivery time)

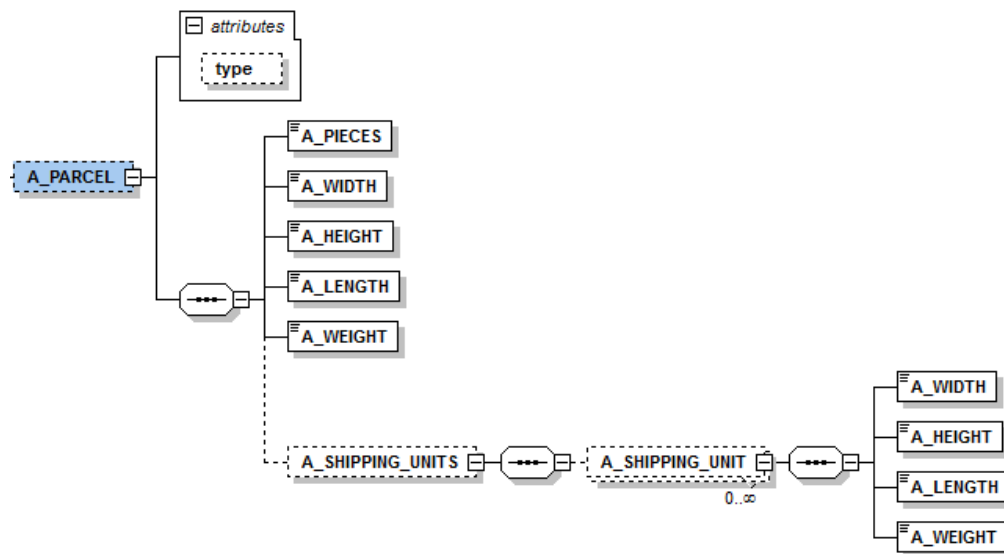
```
<A_DELIVERY_TIME>2</A_DELIVERY_TIME>
```

Example XML (deffering delivery time per sub-channel)

```
<A_DELIVERY_TIMES>
  <A_DELIVERY_TIME channel="chxx">2</A_DELIVERY_TIME>
  <A_DELIVERY_TIME channel="chxx_a">2</A_DELIVERY_TIME>
  <A_DELIVERY_TIME channel="chxx_b">4</A_DELIVERY_TIME>
  <A_DELIVERY_TIME channel="chxx_c">5</A_DELIVERY_TIME>
</A_DELIVERY_TIMES>
```

9.29 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	J	INT	Number of packages (more than 1 packing unit)
A_WIDTH	J	INT	Width of the article in cm
A_HEIGHT	J	INT	Height of the article in cm
A_LENGTH	J	INT	Length of the article in cm
A_WEIGHT	J	FLOAT	Weight of the article in kg

NODE	MUST	DATA TYPE	DESCRIPTION
A_SHIPPING_UNIT	N	XML	For multiple packages: Packing dimensions per package
A_WIDTH	J	INT	Width of the article in cm
A_HEIGHT	J	INT	Height of the article in cm
A_LENGTH	J	INT	Length of the article in cm
A_WEIGHT	J	FLOAT	Weight of the article in kg

Example XML (1 pack size)

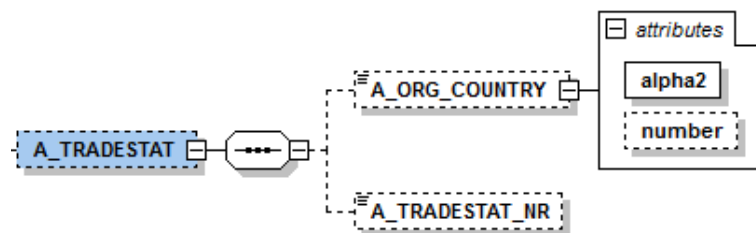
```
<A_PARCEL type="other_parcel">
  <A_PIECES>1</A_PIECES>
  <A_WIDTH>90</A_WIDTH>
  <A_HEIGHT>30</A_HEIGHT>
  <A_LENGTH>50</A_LENGTH>
  <A_WEIGHT>2.4</A_WEIGHT>
</A_PARCEL>
```

Example XML (multiple pack sizes)

```
<A_PARCEL type="other_parcel">
  <A_PIECES>2</A_PIECES>
  <A_WIDTH>38</A_WIDTH>
  <A_HEIGHT>5</A_HEIGHT>
  <A_LENGTH>28</A_LENGTH>
  <A_WEIGHT>1.7</A_WEIGHT>
  <A_SHIPPING_UNITS>
    <A_SHIPPING_UNIT>
      <A_WIDTH>38</A_WIDTH>
      <A_HEIGHT>2</A_HEIGHT>
      <A_LENGTH>28</A_LENGTH>
      <A_WEIGHT>0.85</A_WEIGHT>
    </A_SHIPPING_UNIT>
    <A_SHIPPING_UNIT>
      <A_WIDTH>38</A_WIDTH>
      <A_HEIGHT>2</A_HEIGHT>
      <A_LENGTH>28</A_LENGTH>
      <A_WEIGHT>0.85</A_WEIGHT>
    </A_SHIPPING_UNIT>
  </A_SHIPPING_UNITS>
</A_PARCEL>
```

9.30 TBCATALOG / ARTICLEDATA / ARTICLE / A_TRADESTAT

Information on country of origin and IntraStat number.



NODE	MUST	DATA TYPE	DESCRIPTION
A_TRADESTAT	N	XML	TradeStat informationen
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

10.1 PRODUCT WITHOUT VARIANTS, MULTILINGUAL (KEY-BASED)

```
<?xml version="1.0" encoding="UTF-8"?>
<TBCATALOG version="1.3" creation="1378277984" channel="cudoku
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_NAME_KEYWORD>
        <VALUE xml:lang="de-DE">Outdoor-Jacke</VALUE>
        <VALUE xml:lang="en-US">Outdoor-Jacket</VALUE>
      </P_NAME_KEYWORD>
      <P_NAME_PROPER>
        <VALUE xml:lang="de-DE">Reinhold</VALUE>
        <VALUE xml:lang="en-US">Reinhold</VALUE>
      </P_NAME_PROPER>
      <P_TEXT>
        <VALUE xml:lang="de-DE">
          Die Outdoorjacke "Reinhold" ist eine außergewöhnlich
          robust 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 allrounder for the whole year, which will
          inspire you.
        </VALUE>
      </P_TEXT>
      <P_BRAND identifier="key" key="supjam"
        name="Superjackenmeister" />
      <P_KEYWORDS>
        <P_KEYWORD>
          <VALUE xml:lang="de-DE">Kapuzenjacke</VALUE>
          <VALUE xml:lang="en-US">hoodie jacket</VALUE>
        </P_KEYWORD>
        <P_KEYWORD>
          <VALUE xml:lang="de-DE">Anorak</VALUE>
          <VALUE xml:lang="en-US">Anorak</VALUE>
        </P_KEYWORD>
        <P_KEYWORD>

```

```

        <VALUE xml:lang="de-DE">Funktionskleidung</VALUE>
        <VALUE xml:lang="en-US">functional clothing</VALUE>
    </P_KEYWORD>
</P_KEYWORDS>
<P_COMPONENTDATA>
    <P_COMPONENT identifier="key" key="width" name="Breite">
        <VALUE xml:lang="de-DE">110cm</VALUE>
        <VALUE xml:lang="en-US">110cm</VALUE>
    </P_COMPONENT>
    <P_COMPONENT identifier="key" key="color" name="Farbe">
        <VALUE xml:lang="de-DE">blau</VALUE>
        <VALUE xml:lang="en-US">blue</VALUE>
    </P_COMPONENT>
</P_COMPONENTDATA>
<P_TAGS>
    <P_TAG identifier="key" key="gender" name="Zielgruppe">
        <VALUES>
            <VALUE identifier="key" key="male" />
        </VALUES>
    </P_TAG>
</P_TAGS>
<P_BULLETS>
    <P_BULLET sort="10">
        <VALUE xml:lang="de-DE">atmungsaktiv</VALUE>
        <VALUE xml:lang="en-US">breathable</VALUE>
    </P_BULLET>
    <P_BULLET sort="20">
        <VALUE xml:lang="de-DE">wasserdicht</VALUE>
        <VALUE xml:lang="en-US">waterproof</VALUE>
    </P_BULLET>
    <P_BULLET sort="30">
        <VALUE xml:lang="de-DE">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="cudoku" type="primary"
identifier="key" key="hefr" name="Herren|Jacken|Freizeit" />
</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_ACTIVATEDATA>
                <A_ACTIVE channel="cudokuacc1">1</A_ACTIVE>
            </A_ACTIVATEDATA>
            <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="Ausschnitt">
                    <VALUE xml:lang="de-DE">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" />
                    </VALUES>
                </A_TAG>
            </A_TAGS>
            <A_PRICEDATA>
                <A_PRICE channel="cudoku" 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_PRICE channel="cudoku_en" currency="EUR">
                    <A_VK>99.99</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_TIMES>
                                <A_DELIVERY_TIME
channel="cudoku">3</A_DELIVERY_TIME>
                                <A_DELIVERY_TIME
channel="cudoku_en">5</A_DELIVERY_TIME>
                                </A_DELIVERY_TIMES>
                                <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>2</A_PIECES>
                                    <A_WIDTH>90</A_WIDTH>
                                    <A_HEIGHT>30</A_HEIGHT>
                                    <A_LENGTH>50</A_LENGTH>
                                    <A_WEIGHT>2.4</A_WEIGHT>
                                    <A_SHIPPING_UNITS>
                                        <A_SHIPPING_UNIT>
                                            <A_WIDTH>90</A_WIDTH>
                                            <A_HEIGHT>30</A_HEIGHT>
                                            <A_LENGTH>50</A_LENGTH>
                                            <A_WEIGHT>2.4</A_WEIGHT>
                                        </A_SHIPPING_UNIT>
                                        <A_SHIPPING_UNIT>
                                            <A_WIDTH>90</A_WIDTH>
                                            <A_HEIGHT>30</A_HEIGHT>
                                            <A_LENGTH>50</A_LENGTH>
                                            <A_WEIGHT>2.4</A_WEIGHT>
                                        </A_SHIPPING_UNIT>
                                    </A_SHIPPING_UNITS>
                                </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 (KEY-BASED)

```

<?xml version="1.0" encoding="UTF-8"?>
<TBCATALOG version="1.3" creation="1378277984" channel="cudoku
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_NAME_KEYWORD>
    <VALUE xml:lang="de-DE">Outdoor-Jacke</VALUE>
  </P_NAME_KEYWORD>
  <P_NAME_PROPER>
    <VALUE xml:lang="de-DE">Reinhold</VALUE>
  </P_NAME_PROPER>
  <P_TEXT>
    <VALUE xml:lang="de-DE">
      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>
  </P_TEXT>
  <P_BRAND identifier="key" key="supjam"
name="Superjackenmeister" />
  <P_KEYWORDS>
    <P_KEYWORD>
      <VALUE xml:lang="de-DE">Kapuzenjacke</VALUE>
    </P_KEYWORD>
    <P_KEYWORD>
      <VALUE xml:lang="de-DE">Anorak</VALUE>
    </P_KEYWORD>
    <P_KEYWORD>
      <VALUE xml:lang="de-DE">Funktionskleidung</VALUE>
    </P_KEYWORD>
  </P_KEYWORDS>
  <P_COMPONENTDATA>
    <P_COMPONENT identifier="key" key="width" name="Breite">
      <VALUE xml:lang="de-DE">110cm</VALUE>
    </P_COMPONENT>
    <P_COMPONENT identifier="key" key="color" name="Farbe">
      <VALUE xml:lang="de-DE">blau</VALUE>
    </P_COMPONENT>
  </P_COMPONENTDATA>
  <P_TAGS>
    <P_TAG identifier="key" key="gender" name="Zielgruppe">
      <VALUES>
        <VALUE identifier="key" key="male" />
      </VALUES>
    </P_TAG>
  </P_TAGS>
  <P_BULLETS>
    <P_BULLET sort="10">
      <VALUE xml:lang="de-DE">atmungsaktiv</VALUE>
    </P_BULLET>
  </P_BULLETS>

```

```

        </P_BULLET>
        <P_BULLET sort="20">
            <VALUE xml:lang="de-DE">wasserdicht</VALUE>
        </P_BULLET>
        <P_BULLET sort="30">
            <VALUE xml:lang="de-DE">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="cudoku" type="primary"
identifier="key" key="hefr" name="Herren|Jacken|Freizeit" />
        <P_CATEGORY channel="cudoku" type="secondary"
identifier="key" key="heout" name="Herren|Jacken|Outdoor" />
    </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_ACTIVATEDATA>
                <A_ACTIVE channel="cudokuacc1">1</A_ACTIVE>
            </A_ACTIVATEDATA>
            <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="Ausschnitt">
                    <VALUE xml:lang="de-DE">V-
Ausschnitt</VALUE>
                </A_COMPONENT>
            </A_COMPONENTDATA>
        </ARTICLE>
    </ARTICLEDATA>
    <A_TAGS>

```

```

name="Basisfarbe">
    <A_TAG identifier="key" key="basecolor"
        <VALUES>
            <VALUE identifier="key" key="blue"
name="blau" />
        </VALUES>
    </A_TAG>
</A_TAGS>
<A_PRICEDATA>
    <A_PRICE channel="cudoku" 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_PRICE channel="cudoku_en" currency="EUR">
        <A_VK>99.99</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_TIMES>
    <A_DELIVERY_TIME
channel="cudoku">3</A_DELIVERY_TIME>
    <A_DELIVERY_TIME
channel="cudoku_en">5</A_DELIVERY_TIME>
</A_DELIVERY_TIMES>
<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>2</A_PIECES>
    <A_WIDTH>90</A_WIDTH>
    <A_HEIGHT>30</A_HEIGHT>
    <A_LENGTH>50</A_LENGTH>
    <A_WEIGHT>2.4</A_WEIGHT>
    <A_SHIPPING_UNITS>
        <A_SHIPPING_UNIT>
            <A_WIDTH>90</A_WIDTH>
            <A_HEIGHT>30</A_HEIGHT>

```

```

                                <A_LENGTH>50</A_LENGTH>
                                <A_WEIGHT>2.4</A_WEIGHT>
                            </A_SHIPPING_UNIT>
                            <A_SHIPPING_UNIT>
                                <A_WIDTH>90</A_WIDTH>
                                <A_HEIGHT>30</A_HEIGHT>
                                <A_LENGTH>50</A_LENGTH>
                                <A_WEIGHT>2.4</A_WEIGHT>
                            </A_SHIPPING_UNIT>
                        </A_SHIPPING_UNITS>
                    </A_PARCEL>
                    <A_TRADESTAT>
                        <A_ORG_COUNTRY alpha2="DE"/>
                        <A_TRADESTAT_NR>94036090</A_TRADESTAT_NR>
                    </A_TRADESTAT>
                </ARTICLE>
            </ARTICLEDATA>
        </PRODUCT>
    </PRODUCTDATA>
</TBCATALOG>

```

10.3 PRODUCT WITHOUT VARIANTS, MULTILINGUAL (ID-BASED)

```

<?xml version="1.0" encoding="UTF-8"?>
<TBCATALOG version="1.3" creation="1378277984" channel="cudoku
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_NAME_KEYWORD>
                <VALUE xml:lang="de-DE">Outdoor-Jacke</VALUE>
                <VALUE xml:lang="en-US">Outdoor-Jacket</VALUE>
            </P_NAME_KEYWORD>
            <P_NAME_PROPER>
                <VALUE xml:lang="de-DE">Reinhold</VALUE>
                <VALUE xml:lang="en-US">Reinhold</VALUE>
            </P_NAME_PROPER>
            <P_TEXT>
                <VALUE xml:lang="de-DE">
                    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 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 storm. The outdoor jacket "Reinhold" is a very flexible allrounder for the whole year, which will inspire you.

```

</VALUE>
</P_TEXT>
<P_BRAND identifier="ID" key="4711" />
<P_KEYWORDS>
  <P_KEYWORD>
    <VALUE xml:lang="de-DE">Kapuzenjacke</VALUE>
    <VALUE xml:lang="en-US">hoodie jacket</VALUE>
  </P_KEYWORD>
  <P_KEYWORD>
    <VALUE xml:lang="de-DE">Anorak</VALUE>
    <VALUE xml:lang="en-US">Anorak</VALUE>
  </P_KEYWORD>
  <P_KEYWORD>
    <VALUE xml:lang="de-DE">Funktionskleidung</VALUE>
    <VALUE xml:lang="en-US">functional clothing</VALUE>
  </P_KEYWORD>
</P_KEYWORDS>
<P_COMPONENTDATA>
  <P_COMPONENT identifier="ID" key="4712">
    <VALUE xml:lang="de-DE">110cm</VALUE>
    <VALUE xml:lang="en-US">110cm</VALUE>
  </P_COMPONENT>
  <P_COMPONENT identifier="ID" key="4713">
    <VALUE xml:lang="de-DE">blau</VALUE>
    <VALUE xml:lang="en-US">blue</VALUE>
  </P_COMPONENT>
</P_COMPONENTDATA>
<P_TAGS>
  <P_TAG identifier="ID" key="4714">
    <VALUES>
      <VALUE identifier="ID" key="4715" />
    </VALUES>
  </P_TAG>
</P_TAGS>
<P_BULLETS>
  <P_BULLET sort="10">
    <VALUE xml:lang="de-DE">atmungsaktiv</VALUE>
    <VALUE xml:lang="en-US">breathable</VALUE>
  </P_BULLET>
  <P_BULLET sort="20">
    <VALUE xml:lang="de-DE">wasserdicht</VALUE>
    <VALUE xml:lang="en-US">waterproof</VALUE>
  </P_BULLET>
  <P_BULLET sort="30">
    <VALUE xml:lang="de-DE">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="ID" key="4716" />
            <P_LOGO identifier="ID" key="4717" />
        </P_LOGOS>
        <P_CATEGORIES>
            <P_CATEGORY channel="cudoku" type="primary" identifier="ID"
key="4718" />
            <P_CATEGORY channel="cudoku" type="secondary"
identifier="ID" key="1295" />
        </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_ACTIVATEDATA>
                    <A_ACTIVE channel="cudokuacc1">1</A_ACTIVE>
                </A_ACTIVATEDATA>
                <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="ID" key="1299">
                        <VALUE xml:lang="de-DE">V-
Ausschnitt</VALUE>
                        <VALUE xml:lang="en-US">V-neck</VALUE>
                    </A_COMPONENT>
                </A_COMPONENTDATA>
                <A_TAGS>
                    <A_TAG identifier="ID" key="4589">
                        <VALUES>
                            <VALUE identifier="ID"
key="4689" />
                        </VALUES>
                    </A_TAG>
                </A_TAGS>
                <A_PRICEDATA>
                    <A_PRICE channel="cudoku" currency="EUR">
                        <A_VK>87.99</A_VK>
                    </A_PRICE>
                </A_PRICEDATA>
            </ARTICLE>
        </ARTICLEDATA>
    </P>

```

```

                                <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>2</A_PIECES>
                        <A_WIDTH>90</A_WIDTH>
                        <A_HEIGHT>30</A_HEIGHT>
                        <A_LENGTH>50</A_LENGTH>
                        <A_WEIGHT>2.4</A_WEIGHT>
                        <A_SHIPPING_UNITS>
                            <A_SHIPPING_UNIT>
                                <A_WIDTH>90</A_WIDTH>
                                <A_HEIGHT>30</A_HEIGHT>
                                <A_LENGTH>50</A_LENGTH>
                                <A_WEIGHT>2.4</A_WEIGHT>
                            </A_SHIPPING_UNIT>
                            <A_SHIPPING_UNIT>
                                <A_WIDTH>90</A_WIDTH>
                                <A_HEIGHT>30</A_HEIGHT>
                                <A_LENGTH>50</A_LENGTH>
                                <A_WEIGHT>2.4</A_WEIGHT>
                            </A_SHIPPING_UNIT>
                        </A_SHIPPING_UNITS>
                    </A_PARCEL>
                    <A_TRADESTAT>
                        <A_ORG_COUNTRY alpha2="DE"/>
                        <A_TRADESTAT_NR>94036090</A_TRADESTAT_NR>
                    </A_TRADESTAT>
                </ARTICLE>
            </ARTICLEDATA>
        </PRODUCT>
    </PRODUCTDATA>
</TBCATALOG>

```

10.4 PRODUCT WITH VARIANTS, MONOLINGUAL (ID-BASED)

```
<?xml version="1.0" encoding="UTF-8"?>
<TBCATALOG version="1.3" creation="1378277984" channel="cudoku
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_NAME_KEYWORD>
        <VALUE xml:lang="de-DE">Outdoor-Jacke</VALUE>
      </P_NAME_KEYWORD>
      <P_NAME_PROPER>
        <VALUE xml:lang="de-DE">Reinhold</VALUE>
      </P_NAME_PROPER>
      <P_TEXT>
        <VALUE xml:lang="de-DE">
          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>
      </P_TEXT>
      <P_BRAND identifier="ID" key="4711" />
      <P_KEYWORDS>
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