

# OFML–Basket XML Format



<b>Short Description</b>	Specification of OBK / SCE XML basket format
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## 1. On the document

The OBK shopping basket format consists of XML elements identified by a tag. Elements can contain parameters and content. The content is either unformatted characters or additional elements. The Document Type Definition (DTD) in Chapter 3.10 defines attributes and content of elements.

## 2. File structure

The file structure reflects the object structure within the OBK basket. This consists of the actual basket and one or more views on the basket. The shopping basket and the views contain arranged articles, folders and other objects in a tree.

### 2.1. *Object structure in the basket*

For articles and folders in the shopping basket, a distinction is made between those that originate from an existing planning and those that were added to the shopping basket. Items, folders and other objects are stored in a tree structure in the basket as well as in the shopping basket views.

The structure of the planning articles and folders depends on the order structure from planning and cannot be changed in the shopping basket. Planning folders are located either at the top level of the warehouse basket or below another planning folder. Plan items are located either at the top level, below a planning folder, or below another plan item.

The structure of shopping basket articles and folders can be modified within certain limits. A shopping basket folder is located either at the top level, below a planning folder, or below another shopping basket folder. Shopping basket items can be at the top level as well as below plan items and folders, as well as shopping basket items and folders.

### 2.2. *Object structure in shopping basket view*

In the current implementation, the structure of the objects in the shopping basket view is synchronized with the structure in the shopping basket. For the shopping basket view, what is written in chapter 2.1 applies.

## 3. Definition of XML elements

### 3.1. *Document Root*

The OFML-Basket XML format is used both for storing the shopping basket in project files as well as for storing basket positions in the cut buffer. In the first case, the entire store structure, including the configuration and structure of the shopping basket views, is contained in the XML document. In the second case, this contains only information about selected articles and other items in the shopping basket. For distinction, different names are used for the top element of the XML structure called Document Root.

For all other XML elements, you can use the DTD to determine whether they are used when storing the shopping basket in project files and / or when storing basket positions in the cut buffer.

The *Cut* (), *Copy* (), and *Paste* () methods of the *BasketView* interface also use the cut buffer format.

### 3.1.1. Document Root for saved shopping basket

This item is used as the document root when you store the shopping basket, including shopping basket views and its configuration, into the project file.

<b>XML Code:</b>	<basket>
<b>Description:</b>	All OBK basket files must have a <b>basket</b> element at the top level. All further information can be found in elements contained in the <b>basket</b> element.
<b>DTD:</b>	<!ELEMENT <b>basket</b> (versionInfo?, bskCounts?, config, genImgURIs, appData?, topFolder, bskCalc, view+)> <!ATTLIST <b>basket</b> >

### 3.1.2. Document Root for basket elements stored in the cut buffer

This element is used as a document root when storing selected basket positions in the cut buffer.

<b>XML Code:</b>	<cutBuffer>
<b>Description:</b>	<b>cutBuffer</b> is used as a document root when storing selected basket positions in the cut buffer. For the description of the element <b>items</b> see chapter 3.8.
<b>DTD:</b>	<!ELEMENT <b>cutBuffer</b> (versionInfo?, items)> <!ATTLIST <b>cutBuffer</b> >

## 3.2. Version Information

Sometimes it is helpful to know how to use Basket XML to determine which application or application version it was created, or which version of the Basket XML specification it corresponds to.<sup>1</sup>

<b>XML Code:</b>	<versionInfo>
<b>Description:</b>	The versionInfo element contains information about the application from which the XML document was written, and optionally the version of the DTD that corresponds to the document and the version of the EAI shopping basket module that wrote the document. The values of the appVersion, bskXmlVersion, and bskVersion attributes must match the extended regular expression [0-9] + \. [0-9] + ((alpha)   (beta)   (rc)   \ ] +.
<b>DTD:</b>	<!ELEMENT <b>versionInfo</b> EMPTY> <!ATTLIST <b>versionInfo</b> vendorKey CDATA #REQUIRED appKey CDATA #REQUIRED appVersion CDATA #REQUIRED bskXmlVersion CDATA #IMPLIED bskVersion CDATA #IMPLIED>

<sup>1</sup> For example, Starting with EAI version 1.4beta8, after inserting data from the clipboard that originated from pCon.planner or pCon.configurator, the price profile of the OFML basket is used to determine the purchase and sale prices for the inserted articles and their calculation updated. The prerequisite is that pCon.planner and pCon.configurator generate the corresponding **versionInfo** elements.

Attribute	Required	Type	Description
vendorKey	Yes	string	The key of the manufacturer of the application from which the document was written. The same user name as in the Windows registry can normally be used as a manufacturing key. The following keys are currently available and should also be used for these manufacturers: EasternGraphics - EasternGraphics GmbH Vitra - Vitra GmbH
appKey	Yes	string	The key of the application from which the document was written. For this, i.d.R. the same application name as used in the Windows registry. The following keys are currently assigned and should also be used for these applications: OFMLBasket - pCon.basket & pCon.Xcad PPL - pCon.planner PCF - pCon.configurator SCE - Sales Configurator Enterprise 3DL - 3D–Configurator
appVersion	Yes	version	The version number of the application that has written the document.
bskXmlVersion	No	version	The version number of the Basket XML specification that corresponds to the document. The version must be greater than or equal to 1.4beta1 because the <b>versionInfo</b> element has been added to the specification in this version.  The document must be compatible with the specified version of the Basket XML specification. If it becomes necessary to change the semantics of elements, attributes, or content in an incompatible manner, the interpretation of the document as specified in the basket XML specification will be made when reading the document.
bskVersion	No	version	If the document was written by the EAI shopping basket module, this attribute contains the version number of the same. Otherwise, it may not be specified.

### 3.3. Statistics

In order to be able to realize a meaningful progress display during the import, information about the number of objects and views contained in the shopping basket must be stored at the beginning of the shopping basket.

<b>XML Code:</b>	<bskCounts>		
<b>Description:</b>	This item is optional. The attributes contain the number of objects in the basket and the number of views in the basket.		
<b>DTD:</b>	<!ELEMENT bskCounts EMPTY> <!ATTLIST bskCounts items CDATA #IMPLIED views CDATA #IMPLIED>		
Attribute	Required	Type	Description
items	Yes	integer	Contains the number of items in the basket <sup>2</sup> . In the current implementation, each basket position corresponds to an object.

<sup>2</sup> The items in the shopping basket views are not counted. These are deposited with the respective view.

Attribute	Required	Type	Description
views	Yes	integer	Contains the number of views on the basket.

### 3.4. Configuration

When creating a new project and thus a new shopping basket, different user-specific presets for the shopping basket are accepted in the basket and stored together with the shopping basket. All settings that are not specific to a specific shopping basket view are stored within the **config** element.

<b>XML Code:</b>	<config>
<b>Description:</b>	The <b>config</b> element contains additional items with information about the configuration of the shopping basket.
<b>DTD:</b>	<!ELEMENT <b>config</b> (column+, defaultView, currency, VAT)> <!ATTLIST <b>config</b>

#### 3.4.1. Columns

The OFML shopping basket has a predefined set of columns, which can be manually extended by any number of own columns. Each column, including the predefined columns, must be described by a **column** element within the configuration. The columns thus described are not necessarily visible. Which columns are displayed in which shopping basket view is described within the shopping basket view.

User defined columns provide the ability to set additional attributes for each object in the shopping basket.

<b>XML Code:</b>	<column>
<b>Description:</b>	The column element describes a column of the commodity basket. The order of the column elements is arbitrary. User-defined columns can have either the defColId attribute or the defColValue element.
<b>DTD:</b>	<!ELEMENT <b>column</b> (defColValue)?> <!ATTLIST <b>column</b> id CDATA #REQUIRED type (builtin text number bool image eclass) #REQUIRED name CDATA #REQUIRED title CDATA #REQUIRED defColId CDATA #IMPLIED>

Attribute	Required	Type	Description
Id	Yes	uuid	Contains the unique identification of the column. The IDs of the predefined columns are: 69ec3fa0-795a-11d6-9c21-00e029099a4b                   –                   Manufacturer 6d302258-795a-11d6-9c21-00e029099a4b                   –                   Series 71803794-795a-11d6-9c21-00e029099a4b                   –                   Article            Number 745802e4-795a-11d6-9c21-00e029099a4b                   –                   Description 76eda34c-795a-11d6-9c21-00e029099a4b                   –                   Quantity 7d21a60a-795a-11d6-9c21-00e029099a4b                   –   Purchase    Price    Article 7fe484fc-795a-11d6-9c21-00e029099a4b                   –   Purchase    Price    Position 82efa014-795a-11d6-9c21-00e029099a4b                   –   Sales        Prices    Article 8541eb1a-795a-11d6-9c21-00e029099a4b                   –   Sales        Price     Position 8831eeec-795a-11d6-9c21-00e029099a4b                   –   Net          Price     Article 8b51fbe4-795a-11d6-9c21-00e029099a4b                   –   Net          Price     Position 8dcf0592-795a-11d6-9c21-00e029099a4b                   –   Gross        Price     Article 90895bc0-795a-11d6-9c21-00e029099a4b                   –   Gross        Price     Position

Attribute	Required	Type	Description
			81d12edc-853a-11d6-9c21-00e029099a4b – Position Number 9c9ea8ea-20ce-11d7-9c21-00e029099a4b – Catalog Image If the <i>id</i> attribute has one of these values, the <b>type</b> attribute must have the value <i>builtin</i> .
Type	Yes	enum	builtin – Predefined Column text – Column contains text number – Column contains number bool – Column contains truth value image – Column contains image URL eclass – Column contains eCI@ss classification
Name	Yes	string	Name of the column, e.g. in the dialog for selecting the visible columns.
Title	Yes	string	Title, e.g. in header from table.
defColId	No	uuid	UUID of column that contains the default value for this column. The <b>column</b> element of the referenced column can occur before or after the reference column. A column with the default value can also be defined for the referenced column as long as cyclic references are avoided. No default value column can be specified for predefined columns.

### 3.4.1.1. Default value of custom columns

The value of cells to be displayed in user-defined columns can be taken from a default column (attribute **defColId**) configured for the column, or it can correspond to the default value configured for the column, which is usually variable which are expanded according to the characteristics of the position.

<b>XML Code:</b>	<defColValue>
<b>Description:</b>	The content of the <b>defColValue</b> element is the value that is to be displayed for cells without their own content.
<b>DTD:</b>	<!ELEMENT <b>defColValue</b> (#PCDATA)> <!ATTLIST <b>defColValue</b>

### 3.4.2. Default View

<b>XML Code:</b>	<defaultView>
<b>Description:</b>	The <b>defaultView</b> element specifies the shopping basket view to be displayed by default after opening the shopping basket.
<b>DTD:</b>	<!ELEMENT <b>defaultView</b> EMPTY> <!ATTLIST <b>defaultView</b> id CDATA #REQUIRED>

Attribute	Required	Type	Description
id	Yes	uuid	ID of the standard view of the shopping basket view. It must correspond to the value of the <b>id</b> attribute of one of the <b>view</b> elements (§3.7).

### 3.4.3. Wahrung

<b>XML Code:</b> <currency>			
<b>Description:</b> The currency element determines the currency to use in the basket. If the product data amounts are in a different currency, they are converted into the currency specified here.			
<b>DTD:</b> <!ELEMENT currency EMPTY> <!ATTLIST currency unit CDATA #REQUIRED>			
Attribute	Required	Type	Description
unit	Yes	currency	Currency to be used according to ISO 4217 (e.g., "EUR").

### 3.4.4. Mehrwertsteuer

<b>XML Code:</b> <VAT>			
<b>Description:</b> The VAT element determines the VAT to be used in the shopping basket.			
<b>DTD:</b> <!ELEMENT VAT EMPTY> <!ATTLIST VAT value CDATA #REQUIRED>			
Attribute	Required	Type	Description
value	Yes	decimal	Contains the value of VAT in percent (e.g., "7.5")

## 3.5. Generated article images

Items in the basket can contain references to generated article images, which are stored together with the shopping basket in the project file. Articles with the same configuration refer to the same image. The assignment of the configuration to the image is made by means of a mapping table in which the program ID, the manufacturer ID, the serial ID, the basic article number and the variant code are used as the key and the URI of the image as a value.



<b>XML Code:</b>	<genImgURIs>
<b>Description:</b>	The <b>genImgURIs</b> element contains zero or more elements for the individual generated article images that are referenced when they are saved by the shopping basket.
<b>DTD:</b>	<!ELEMENT genImgURIs (genImgURI*)> <!ATTLIST genImgURIs>

### 3.5.1. Reference to generated article picture

<b>XML Code:</b>	<genImgURI>		
<b>Description:</b>	The attributes of the <b>genImgURI</b> element are the key for the generated article image in the table that maps article configurations to article images. The content of the element is the URI of the generated article image.		
<b>DTD:</b>	<!ELEMENT genImgURI (#PCDATA)> <!ATTLIST genImgURI progId CDATA #REQUIRED manuId CDATA #REQUIRED seriesId CDATA #REQUIRED artNo CDATA #REQUIRED varCode CDATA #REQUIRED>		
Attribute	Required	Type	Description
progId	Yes	string	Contains the program ID of the corresponding article, e.g. <i>@ofml_goiex</i> .
manuId	Yes	string	Contains the commercial name of the manufacturer, usually two characters (eg <i>EG</i> )
seriesId	Yes	string	Contains the abbreviation of the commercial series, usually two characters, capitalized (e.g., <i>GX</i> )
artNo	Yes	string	Contains the basic article number of the article
varCode	Yes	string	Contains the variant code of the article

### 3.6. Basket

After the references to the generated article images, the content of the commodity basket follows in the form of a **topFolder** element, which contains all further elements for the objects in the shopping basket.

<b>XML Code:</b>	<topFolder>		
<b>Description:</b>	The <b>topFolder</b> element contains items for the top-level basket objects.		
<b>DTD:</b>	<!ELEMENT topFolder (appData?, (bskFolder bskArticle usrArticle plFolder plArticle)*)> <!ATTLIST topFolder basketId CDATA #REQUIRED>		
Attribute	Required	Type	Description
basketId	Yes	uuid	Contains the unique ID for the top folder of the shopping basket. It differs for every shopping basket.

### 3.6.1. Basket Folder

Basket Folders are the folders that were created in the shopping basket and do not exist in any existing planning. Since they do not exist in the planning, the structure of articles and folders from the planning but the order structure corresponds to the planning, shopping basket folders cannot contain any planning articles or folders.

<b>XML Code:</b>	<bskFolder>		
<b>Description:</b>	The <b>bskFolder</b> element represents a shopping basket and contains items with data from the shopping basket, as well as items for subobjects such as other shopping basket items, shopping basket items, and custom items.		
<b>DTD:</b>	<pre>&lt;!ELEMENT bskFolder (label, appData?, (bskFolder bskArticle usrArticle)*)&gt; &lt;!ATTLIST bskFolder basketId CDATA #REQUIRED&gt;</pre>		
Attribute	Required	Type	Description
basketId	Yes	uuid	Contains the unique ID for the basket.

The label of the folder is not stored as an attribute of the **bskFolder** element, but in a separate label element, since this is necessary anyway for the support of multilingual labels.

### 3.6.2. Planning Folder

Planning folders as well as planning elements contained in them are generated during the switchover from the planning to the shopping basket through planning and displayed in the shopping basket.

<b>XML Code:</b>	<plFolder>		
<b>Description:</b>	The <b>plFolder</b> element represents a planning folder and contains items with planning folder data, as well as items for sub-items such as further planning folders and items, shopping basket folders, and shopping basket items <sup>3</sup> , as well as custom articles.		
<b>DTD:</b>	<pre>&lt;!ELEMENT plFolder (label, appData?, (plFolder plArticle bskFolder bskArticle usrArticle)*)&gt; &lt;!ATTLIST plFolder basketId CDATA #REQUIRED planId CDATA #REQUIRED&gt;</pre>		
Attribute	Required	Type	Description
basketId	Yes	uuid	Contains the unique ID for the planning folder.
planId	Yes	string	Contains the order ID of the planning folder used within the ordering structure of the planning.

The label of the folder is not stored as an attribute of the **plFolder** element, but in a separate label element, since this is necessary anyway for the support of multilingual labels.

<sup>3</sup> Since scheduling folders are dynamically removed from planning and recreated, and their identity may not be preserved during this time, it is probably not a good idea to create a shopping basket folder and basket items below scheduling folders.

### 3.6.3. Folder Items

#### 3.6.3.1. Labeling of folders

<b>XML Code:</b>	<label>
<b>Description:</b>	The <b>label</b> element contains the label of a folder.
<b>DTD:</b>	<!ELEMENT label (#PCDATA)> <!ATTLIST label>

### 3.6.4. Basket Items

Basket items are items that were created in your basket. For these articles, an OFML object exists only immediately after the creation and during the variant configuration. All required data, including product data, must therefore be stored within the element for the shopping basket item. For article groups which can only be instantiated as a whole (e.g., metatype with main child and subtypes), it is also necessary to store information describing the relationship between the individual **bskArticle** elements of such an article group. This happens

- by the attribute **subItem** of the element **bskArticle**,
- by the elements **subArticle** and **mainArticle**, which contain references to the sub-article or the main article of an article group,
- by the element **metaItem**, which contains the reference to the superordinate metatype for a sub-article<sup>4</sup>,
- by the element **propSubArticle**, which contains an identification for sub-articles, via which the corresponding OFML article object can be accessed, and
- by the element **addStateCode**, which contains a coding for the main article, in addition to the basic article number and variant encoding, which can be used to create the article group again as a group of OFML articles.

<b>XML Code:</b>	<bskArticle>
<b>Description:</b>	The <b>bskArticle</b> element represents a basket item and contains items with data from the shopping basket, as well as for other shopping basket items or user-defined articles. For elements of the type <b>bskArticle</b> , the subcategories <b>artNr</b> , <b>description</b> , <b>features</b> and <b>itemPrice</b> should be present, in contrast to elements of the type <b>plArticle</b> , since groups and partial planning are not supported as shopping basket items. The elements <b>addStateCode</b> and <b>subArticle</b> should only be available for <i>BasketPartialPlanning</i> or <i>BasketAggregate</i> basket items. The elements <b>propSubArticle</b> , <b>mainItem</b> , and <b>metaItem</b> should only exist for <b>bskArticle</b> elements with the value "1" for the <b>subItem</b> attribute.

<sup>4</sup> In the case of nested meta types this does not have to be identical to the main article.

<p><b>DTD:</b> &lt;!ELEMENT (mainItem?, metaltem?, manufacturer?, series?, artNr*, description*, features?, quantity?, itemPrice+, predefVendorDiscount*, pdInfo, inconsistency?, artCalc, addStateCode?, subArticle*, catalogInfo, exclOffers?, propSubArticle?, appData?, (bskArticle usrArticle)*)&gt;</p> <p>&lt;!ATTLIST <b>bskArticle</b>                  basketId CDATA #REQUIRED                  itemType (BasketArticle BasketPartialPlanning BasketAggregate) #REQUIRED                  subItem (0 1) "0"&gt;</p>			
Attribute	Required	Type	Description
basketId	Yes	Uuid	Contains the unique ID for the basket article.
itemType	Yes	Enum	<p><i>BasketArticle</i> - The item is an item without the sub-item inserted into the basket, or a sub-article of a basket item of the type <i>BasketPartialPlanning</i> or <i>BasketAggregate</i>.</p> <p><i>BasketPartialPlanning</i> - The item is an item inserted into the shopping basket with sub-items that has no item number. It may, for its part, be a sub-article of another basket item type <i>BasketPartialPlanning</i> or <i>BasketAggregate</i>.</p> <p><i>BasketAggregate</i> - The item is an item inserted into the shopping basket with sub-items that has a basic item number. It may, for its part, be sub-articles of another basket item of the type <i>BasketPartialPlanning</i> or <i>BasketAggregate</i>.</p>
subItem	No	Bool	If this attribute is 0 (false, default value), the article is the main article of an article group to be processed as a whole <sup>5</sup> . If the attribute is 1 (true), it is a sub-article of the main article generated either during the generation of the main article or by variant configuration.

**3.6.4.1. Zustandsinformation für Artikelgruppe**

<p><b>XML Code:</b> &lt;addStateCode&gt;</p> <p><b>Description:</b> The <b>addStateCode</b> element contains additional status information about an article or article group. The type of status information is defined by the <b>type</b> attribute.</p> <p><b>DTD:</b> &lt;!ELEMENT <b>addStateCode</b> (#PCDATA)&gt;                  &lt;!ATTLIST <b>addStateCode</b>                  type (ChildProps) #REQUIRED&gt;</p>			
Attribute	Required	Type	Description
type	Yes	enum	<i>ChildProps</i> - Status information about child-controlled objects of <b>bskArticle</b> elements of type <i>BasketPartialPlanning</i> or <i>BasketAggregate</i> . The format of the state information is dependent on the implementation of the OFML data.

**3.6.4.2. References to sub-articles**

<p><b>XML Code:</b> &lt;subArticle&gt;</p> <p><b>Description:</b> <b>bskArticle</b> elements of type <i>BasketPartialPlanning</i> or <i>BasketAggregates</i> usually contain one or more <b>subArticle</b> elements. Each one references the id attribute of another <b>bskArticle</b> element, which represents a sub-article.</p>			
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<sup>5</sup> E.g. a metatype that is not a constituent (sub-article) of another metatype.

<b>DTD:</b> <!ELEMENT <b>subArticle</b> EMPTY> <!ATTLIST <b>subArticle</b> id CDATA #REQUIRED>			
Attribute	Required	Type	Description
id	Yes	uuid	The <b>id</b> attribute contains the unique ID of the subentry.

**Note:** The sub-elements of an article group (for example, metatype) that can only be instantiated as a whole are not always referenced by the main element via the **subArticle** element, but by the **bskArticle** element, which is directly superordinated in the initial structure<sup>6</sup>, with the **basketPartialPlanning** or **BasketAggregate** type. This makes a difference e.g. in nested metatypes.

### 3.6.4.3. Identification of sub-articles

The assignment between OFML objects and shopping basket elements for sub-articles of an article group that can be instantiated only in the whole case is done by means of an ID. The ID is assigned to the OFML page, queried by the superior OFML object (the metatype) with *getPropSubArticleIDs()*, and then stored in the corresponding basket element. Later, you can use *getPropSubArticle()* to get the OFML object associated with the commodity element.

<b>XML Code:</b> <propSubArticle>			
<b>Description:</b> The <b>propSubArticle</b> element is used to store additional information for sub-articles of an article group that can only be instantiated. Currently this is only the identification of the sub-article that is required for the assignment between the OFML object and the article of the basket.			
<b>DTD:</b> <!ELEMENT <b>propSubArticle</b> EMPTY> <!ATTLIST <b>propSubArticle</b> id CDATA #REQUIRED>			
Attribute	Required	Type	Description
id	Yes	string	The <b>id</b> attribute contains the ID of the sub-article. The format of the ID depends on the implementation of the OFML (main) article. In the case of metatypes, the <b>bskElement</b> has an empty string as the ID for the main child. <sup>7</sup>

### 3.6.4.4. Reference to main element

<b>XML Code:</b> <mainItem>			
<b>Description:</b> Each <b>bskArticle</b> element for a subentry of a group of articles (for example, metatype) that is only instantiable as a whole, contains a <b>mainItem</b> element that references the main article of the group.			
<b>DTD:</b> <!ELEMENT <b>mainItem</b> EMPTY> <!ATTLIST <b>mainItem</b> id CDATA #REQUIRED>			
Attribute	Required	Type	Description
id	Yes	uuid	The unambiguous identification of the main article of an article group that is only instantiable as a whole.

<sup>6</sup> This means that subsequent manual restructuring in the shopping basket has no influence on the referencing of sub-articles or on which articles are considered as sub-articles.

<sup>7</sup> This applies only in the event that the metatype takes its own position in the order list. If this is not the case, the metatype and parent child share a **bskArticle** element.

This reference is necessary, since the **bskArticle** elements in the shopping basket can be rearranged almost arbitrarily, and therefore the composition of an article group cannot be inferred from the structure in the shopping basket.

**3.6.4.5. Reference to metatype element**

<b>XML Code:</b>	<metattem>		
<b>Description:</b>	Each <b>bskArticle</b> element that represents a child of a metatype (including the main child) contains a <b>metattem</b> element that references the <b>bskArticle</b> element of the corresponding metatype. In the case of nested meta types, the elements of the inner metatype have different <b>mainItem</b> and <b>metattem</b> IDs.		
<b>DTD:</b>	<!ELEMENT metattem EMPTY> <!ATTLIST metattem id CDATA #REQUIRED>		
Attribute	Required	Type	Description
id	Yes	uuid	The unique identification of the metatype of which this article is a child.

**3.6.4.6. Catalog Information**

Sometimes it is necessary to access the catalog entry that created an article. An example is the use of the catalog image for the article in the document instead of an automatically generated one.

<b>XML Code:</b>	<catalogInfo>		
<b>Description:</b>	Attributes of the <b>catalogInfo</b> element contain information about the catalog from which the article was originally inserted.		
<b>DTD:</b>	<!ELEMENT catalogInfo EMPTY> <!ATTLIST catalogInfo id CDATA #REQUIRED version CDATA #REQUIRED artNr CDATA #REQUIRED varCode CDATA "">		
Attribute	Required	Type	Description
id	Yes	string	The catalog ID in the format <i>@Hersteller_Serie</i> , where manufacturer and series are the corresponding OFML identifiers.
version	Yes	string	The version number of the package containing the catalog at the time of inserting the article. See also key <b>release_version</b> in "Data Structure and Registration (DSR) Specification".
artNr	Yes	string	The article number of the catalog entry selected to insert the article.
varCode	No	string	The variant encoding for the catalog entry selected to insert the article.

Catalog information is only stored for shopping basket articles, since their storage in the OFML-Basket file is not necessary for user-defined (manual) articles (not inserted in the catalog) and planning articles (catalog information in permanently existing OFML articles).

**3.6.5. Planning Article**

Planning articles are articles that were created in the planning and (conceptually) adopted during the switch from planning to the shopping basket in the latter. The corresponding OFML articles exist permanently and must be stored and invited together with the OFML basket file in a separate scene file.

<b>XML Code:</b>	<plArticle>
------------------	-------------

**Description:** The **plArticle** element represents a planning article and consists in elements that contain the data of the planning article as well as elements for other planning articles, shopping basket articles, or user-defined articles. The **artNr**, **description**, **features** and **itemPrice** elements are optional because groups and subplans, which are also stored as **plArticle** elements, do not have this information.<sup>8</sup> An **exclOffers** element is not supported because planning articles cannot be alternative locations.

**DTD:**

```
<!ELEMENT plArticle
(label, manufacturer?, series?, artNr*, description*, features?,
itemPrice+, predefVendorDiscount*, pdInfo, inconsistency?,
artCalc, appData?, (plArticle|bskArticle|usrArticle)*)>
<!ATTLIST plArticle
basketId CDATA @REQUIRED
itemType (Article|Group|PartialPlanning|Aggregate) #REQUIRED
planId CDATA #REQUIRED>
```

Attribute	Required	Type	Description
basketId	Yes	uuid	Contains the unique ID for the planning article.
itemType	Yes	enum	<p><i>Article</i> - The element is a planning article whose order item is of type <i>@Article</i> and whose scheduling element is not derived from class <i>::ofml::xoi::xOiAggregate</i>.</p> <p><i>Group</i> - The element is a planning article whose order item is of type <i>@Group</i> and whose scheduling element is derived from class <i>::ofml::xoi::xOiGroup</i>.</p> <p><i>PartialPlanning</i> - The element is a planning article whose order item is of type <i>@Group</i> and whose scheduling element is not derived from the class <i>::ofml::xoi::xOiGroup</i>.</p> <p><i>Aggregates</i> - The element is a planning article whose order item is of type <i>@Article</i> and whose scheduling element is derived from class <i>::ofml::xoi::xOiAggregate</i>.</p>
planId	Yes	string	Contains the Order ID of the planning article used within the planning order structure.

### 3.6.6. User-defined Articles

User-defined articles are articles which are not deposited by OFML articles and whose attributes can be set by the user with arbitrary values.

**XML Code:** `<usrArticle>`

**Description:** The **usrArticle** element represents a user-defined article and contains elements with data of the article as well as elements for other user-defined articles or goods basket articles.

**DTD:**

```
<!ELEMENT usrArticle
(manufacturer?, series?, artNr*, description*, quantity,
itemPrice+, predefVendorDiscount*, pdInfo, artCalc,
exclOffers?, featureText, appData?, (bskArticle|usrArticle)*)>
<!ATTLIST usrArticle
basketId CDATA #REQUIRED
itemType (UserArticle) #REQUIRED>
```

<sup>8</sup> It sometimes happens that planning elements designated as regular articles by the OFML via the `::egr::app::basket::addItem()` callback do not have the corresponding information, so that these are therefore more of a partial plan.

Attribute	Required	Type	Description
basketId	Yes	uuid	Contains the unique ID for the user-defined article.
itemType	Yes	enum	<i>UserArticle</i> - The item is a user-defined item inserted into the shopping basket that is never deposited by an OFML object or any other form of product data.

### 3.6.6.1. Features

For custom articles, the feature element is not used because it requires the collection of structured features (name, value). To be able to capture and save text with the features of the article, the **featureText** element exists, which is used exclusively for user-defined articles.

<b>XML Code:</b>	<featureText>
<b>Description:</b>	The <b>featureText</b> element contains the unstructured text describing the features of the custom article.
<b>DTD:</b>	<!ELEMENT <b>featureText</b> (#PCDATA)> <!ATTLIST <b>featureText</b>

## 3.6.7. Article Elements

### 3.6.7.1. Manufacturer

<b>XML Code:</b>	<manufacturer>		
<b>Description:</b>	The <b>manufacturer</b> element contains the commercial short name of the manufacturer (two characters, capitalized) as well as optionally within name elements (§3.9.1) the name of the manufacturer, if necessary in different languages.		
<b>DTD:</b>	<!ELEMENT <b>manufacturer</b> (name*)> <!ATTLIST <b>manufacturer</b> id CDATA #REQUIRED>		
Attribute	Required	Type	Description
id	Yes	string	The commercial short name of the manufacturer of the article, two characters long, capital letters.

Nested **name** elements are optional. If present, they will contain the name of the manufacturer in the appropriate language, which will be used if the name of the manufacturer cannot be obtained from the registration database.

Within a basket file, the **name** elements for the same manufacturer need only be contained within the first manufacturer element. If they are contained in several **manufacturer** elements of the same manufacturer, they should always contain the same name for the same language.

### 3.6.7.2. Serie

<b>XML Code:</b>	<series>		
<b>Description:</b>	The <b>series</b> element contains the short name of the commercial series (two characters, capitalized) as well as optionally within <b>name</b> elements (§3.9.1) the name of the series, possibly in different languages.		
<b>DTD:</b>	<!ELEMENT <b>series</b> (name*)> <!ATTLIST <b>series</b> id CDATA #REQUIRED>		
Attribute	Required	Type	Description
id	Yes	string	The short name of the commercial series of the article, two characters long, capital letters.



Nested **name** elements are optional. If present, they contain the name of the series in the appropriate language that will be used if the name of the series cannot be obtained from the registry. Within a basket file, the **name** elements for the same manufacturer's series need only be included within the first **series** element. If they are contained in several **series** elements of the same series from one manufacturer, then they should always contain the same name for the same language.

### 3.6.7.3. Article Number

The element for the article number appears multiple times within the corresponding article element in order to specify basic and final article number as well as variant coding.

<b>XML Code:</b>	<artNr>		
<b>Description:</b>	The <b>artNr</b> element contains an article number of the article in whose element it is directly contained.		
<b>DTD:</b>	<pre>&lt;!ELEMENT artNr (#PCDATA)&gt; &lt;!ATTLIST artNr   type (base final varcode) #REQUIRED   default (0 1) "0"&gt;</pre>		
Attribute	Required	Type	Description
type	Yes	enum	<i>base</i> - basic article number <i>final</i> - end article number <i>varcode</i> - variant coding
default	No	bool	If the value is "1" (true), then this article number should be displayed as standard in the article list. This attribute should only be for a part number of an article "1".

### 3.6.7.4. Description

The element for the description appears multiple times within the corresponding article element to specify the short and long texts of the article and optionally the text describing the features.<sup>9</sup>

<b>XML Code:</b>	<description>		
<b>Description:</b>	The description element contains within text elements the possibly multilingual short and long texts of the article in whose element it is directly contained.		
<b>DTD:</b>	<pre>&lt;!ELEMENT description (text*)&gt; &lt;!ATTLIST description   type (short long features) #REQUIRED   default (0 1) #REQUIRED&gt;</pre>		
Attribute	Required	Type	Description
type	Yes	enum	short - short text long - long text features - features The features type is only allowed if the superordinate element is a <code>bskArticle</code> - element or a <code>plArticle</code> - element.
default	Yes	bool	If the value is "1" (true), this text is by default (as long as not explicitly specified by the application) in the article table. This can be done simultaneously for short and long text of an article. The text with the characteristics must not be marked as standard text.

For user-defined articles, a valid value is written for the attribute default, which is ignored when importing. The reason for this is that by default, the user-defined article always uses the long text if it is not empty.

<sup>9</sup> If an article does not contain text for the features, it will be generated from the content of the **features** element.

### 3.6.7.5. Features

The features of an article are contained within the **features** element, with a separate **feature** element for each feature that includes both the symbolic and language-specific names and values of the features and their language-specific descriptions.

<b>XML Code:</b>	<features>
<b>Description:</b>	The <b>features</b> element exists once per article. It contains zero or more feature elements, each of which describes a feature of the article.
<b>DTD:</b>	<!ELEMENT <b>features</b> (feature*)> <!ATTLIST <b>features</b> >

The **feature** element is not used for user-defined articles (§3.6.6).

<b>XML Code:</b>	<feature>
<b>Description:</b>	The <b>feature</b> element describes a feature of an article. The symbolic name and value are stored as attributes, while the multilingual language-specific names and values are contained within <b>nameText</b> and <b>valueText</b> elements. As of version 1.4 of the OFML-Basket XML Format specification, the element <b>descrText</b> can be used to match the parts of the description of the article characteristics, which, summarized for all visible characteristics, sum to the text stored in the description element with the type features. <sup>10</sup>
<b>DTD:</b>	<!ELEMENT <b>feature</b> (nameText*, valueText*, descrText*)> <!ATTLIST <b>feature</b> name CDATA #REQUIRED value CDATA #REQUIRED flags CDATA #REQUIRED id ID #IMPLIED nameText IDREF #IMPLIED valueText IDREF #IMPLIED descrText IDREF #IMPLIED>

Attribute	Required	Type	Description
name	Yes	string	The symbolic name of the feature.
value	Yes	string	The symbolic value of the feature.
flags	Yes	integer	A positive decimal value representing a bitmask. Unused bits are set to 0. Bit 0 - Characteristic in exports and print visible (1) or not visible (0).
id	No	feature id	Unique name of the <b>feature</b> element. The value must match the regular expression <i>feature</i> [0-9]+, where the numeric value of the digit string must be less than 2 <sup>31</sup> -1. This attribute should only be used if you want to refer to the corresponding element from other parts of the XML document. A reference name is only possible for elements that occur after the referenced element during the pre-order traversal of the XML document.
nameText	No	feature id	If the <b>nameText</b> attribute exists, it points to another <b>feature</b> element whose <b>id</b> attribute has the same value as the <b>nameText</b> attribute and whose language-specific feature names are also to be used for the referencing feature. The referenced feature element cannot have a nameText attribute. Instead, it must have at least one nameText child element for a language-specific feature name.

<sup>10</sup>The texts are identical only if the OFML methods for querying the texts (getArticleFeatures () and getArticleFeaturesDescr () of the interface Article) were not overwritten.

Attribute	Required	Type	Description
valueText	No	feature id	Similar to the <b>nameText</b> attribute, except that instead of the language-specific characteristic name of the referenced element, the language-specific characteristic values of the same are adopted by the referencing element.
descrText	No	feature id	Similar to the attribute <b>nameText</b> , except that instead of the language-specific characteristic name of the referenced element, the characteristic descriptions of the same are adopted by the referencing element.

Up to and including EAI 1.3, to reduce the scope of the Basket XML file, it was not necessary to specify the language-specific characteristic names if the symbolic feature name was not empty and the last **feature** element within the basket file had language specific names identical with this same symbolic feature name. As of EAI 1.4, the attributes **id** and **nameText** of the feature element exist for this purpose. However, the mechanism used in EAI 1.4 is still supported in both writing and reading in EAI 1.4 to allow two-way exchange of Basket XML files between EAI 1.3 and EAI 1.4. The statements made for the **nameText** element apply in the same way to the **valueText** element.

### 3.6.7.5.1. Feature Names

<b>XML Code:</b>	<nameText>		
<b>Description:</b>	The <b>nameText</b> element contains the feature name in the language specified by the <b>lang</b> attribute. If a feature element contains a <b>nameText</b> element, the corresponding <b>nameText</b> elements must be included for all languages supported by the article. An exception is the case that all language-specific characteristic names are empty. In this case, the feature element may contain a single <b>nameText</b> element without a lang attribute. <sup>11</sup>		
<b>DTD:</b>	<!ELEMENT nameText (#PCDATA)> <!ATTLIST nameText lang CDATA #REQUIRED>		
Attribute	Required	Type	Description
lang	Yes	string	The language of the feature name as ISO 639 language abbreviation.

### 3.6.7.5.2. Merkmalswerte

<b>XML Code:</b>	<valueText>		
<b>Description:</b>	The <b>valueText</b> element contains the characteristic value in the language specified by the <b>lang</b> attribute. If a feature element contains a <b>valueText</b> element, the corresponding <b>valueText</b> elements must be included for all languages supported by the article. An exception is the case that all language-specific characteristic values are empty. In this case, the feature element may contain a single <b>valueText</b> element without a lang attribute. <sup>12</sup>		
<b>DTD:</b>	<!ELEMENT valueText (#PCDATA)> <!ATTLIST valueText lang CDATA #REQUIRED>		
Attribute	Required	Type	Description
lang	Yes	string	The language of the characteristic value as ISO 639 language code.

### 3.6.7.5.3. Attribute Description

<b>XML Code:</b>	<descrText>		
------------------	-------------	--	--

<sup>11</sup> The existence of at least one **nameText** element is required for compatibility with EAI 1.3.

<sup>12</sup> The existence of at least one **valueText** element is required for compatibility with EAI 1.3.

<b>Description:</b>	The descrText element contains the descriptive text of a feature in the language specified by the lang attribute. Each line of text is stored in a descrLine element.		
<b>DTD:</b>	<pre>&lt;!ELEMENT descrText (descrLine+)&gt; &lt;!ATTLIST descrText   lang CDATA #REQUIRED&gt;</pre>		
Attribute	Required	Type	Description
lang	Yes	string	The language of the descriptive text of the feature as ISO 639 language abbreviation.
<b>XML Code:</b>	<pre>&lt;descrLine&gt;</pre>		
<b>Description:</b>	The element <b>descrLine</b> contains a line of the descriptive text of a feature. The line consists of up to two fields, which are stored as content of the elements <b>descrField0</b> and <b>descrField1</b> .		
<b>DTD:</b>	<pre>&lt;!ELEMENT descrLine (descrField0, descrField1)&gt; &lt;!ATTLIST descrLine&gt;</pre>		
<b>XML Code:</b>	<pre>&lt;descrField0&gt; &lt;descrField1&gt;</pre>		
<b>Description:</b>	The contents of these elements are normally the language-specific characteristic names ( <b>descrField0</b> ) and the characteristic value ( <b>descrField1</b> ). Both should be separated by a colon and / or space to form a line of the description text. Sometimes a separation between feature name and value is not possible in every row. In these cases, the content of <b>descrField1</b> is empty, and the line of the description text consists solely of the content of <b>descrField0</b> .		
<b>DTD:</b>	<pre>&lt;!ELEMENT descrField0 (#PCDATA)&gt; &lt;!ATTLIST descrField0&gt; &lt;!ELEMENT descrField1 (#PCDATA)&gt; &lt;!ATTLIST descrField1&gt;</pre>		

### 3.6.7.6. Quantity

The **quantity** element specifies the number of articles for each position. It only needs to be specified if the item does not contain exactly one item.

<b>XML Code:</b>	<pre>&lt;quantity&gt;</pre>		
<b>Description:</b>	The quantity element contains the number of articles in the position in which it is located. As a child of a <b>bskArticle</b> element, it may only be used if its <b>subitem</b> attribute has the value "0". <sup>13</sup>		
<b>DTD:</b>	<pre>&lt;!ELEMENT quantity EMPTY&gt; &lt;!ATTLIST quantity   count CDATA #REQUIRED&gt;</pre>		
Attribute	Required	Type	Description
count	Yes	decimal	The number of articles in the position. Decimal places are allowed, but are currently not supported.

### 3.6.7.7. Item Price

Several **itemPrice** items specify the official (i.e., the product data) buying and selling prices of an item, as well as the sales prices derived from a price profile from the former.

<sup>13</sup>All articles of an article group have the same number, which is deposited for the main article.

<b>XML Code:</b> <itemPrice>			
<b>Description:</b> An element <b>itemPrice</b> contains in an attribute a certain price of a single item of the item. The price at stake is determined by attributes. Prices resulting from discounts and / or surcharges are included in a separate <b>calc</b> element (§3.6.7.9.2).			
<b>DTD:</b> <!ELEMENT itemPrice EMPTY> <!ATTLIST itemPrice type (purchase sale) #REQUIRED pd (0 1) "0" override (0 1) "0" currency CDATA #REQUIRED value CDATA #REQUIRED>			
Attribute	Required	Type	Description
type	Yes	enum	<i>purchase</i> - purchase price for the dealer <i>sale</i> - retail price of the retailer; This is always the sales price read from the product data and, if applicable, determined after applying a price profile, not a sales price that may have been explicitly entered in the shopping basket for the item.
pd	No	bool	If "1" (true), then this is the purchase or sale price stored in the product data, otherwise it is a price derived from the former by a price profile.  For user-defined articles, the <b>itemPrice</b> elements with the attribute <b>pd</b> set to "1" contain the gross purchase price or the selling price entered by the user.
override	No	bool	If "1", this is a user-entered gross purchase price that overrides the purchase price provided by the product data. In this case, the attribute <b>type</b> must have the value <i>purchase</i> and the attribute <b>pd</b> the value "1".  <b>itemPrice</b> elements within user-defined articles cannot have an <b>override</b> attribute with the value "1" because of the user-entered prices where the <b>pd</b> attribute is set to "1" and the <b>override</b> attribute is implicitly set to "0".
currency	Yes	currency	Currency according to ISO 4217 (for example "EUR").
value	Yes	decimal	Value.

The purchase price provided by the product data provides the basis for specifying an item-specific supplier discount. The derived purchase price is used in the calculation of the dealer's margin. The deducted sales price is the basis of the net price of the item in the receipt, which may have been modified by discounts and / or surcharges, unless a sales price for the item has been explicitly specified in the shopping basket. The latter is stored as part of the article costing with the element **salesPrice** (§3.6.7.9.3).

The purchase price given with **type** = "*purchase*", **pd** = "0", and **override** = "0" is the value determined by applying the price profile to the gross purchase price, if the user changes the supplier discount given by the price profile or if additional supplier discounts are awarded, the actual purchase price will differ from the value stated here.

### 3.6.7.8. Predefined supplier discount

<b>XML Code:</b> <predefVendorDiscount>	
<b>Description:</b> The <b>predefVendorDiscount</b> element contains a predefined supplier discount, which was provided by the price profile of the OBK or via the ApplyPriceProfile event of the OBK server interface. It will be recalculated after inserting the article and after each re-configuration.  The <b>predefVendorDiscount</b> element can occur zero or more times. The order is relevant because they are chain discounts.	

<b>DTD:</b> <pre> &lt;!ELEMENT predefVendorDiscount EMPTY&gt; &lt;!ATTLIST predefVendorDiscount   label CDATA #REQUIRED   incr (0 1) #REQUIRED   relative CDATA #REQUIRED   currency CDATA #REQUIRED   value CDATA #REQUIRED&gt;                 </pre>			
Attribute	Required	Type	Description
label	Yes	string	Name of the discount.
incr	Yes	bool	If "1" (true), the relative discount is based on the current difference from the purchase price provided by the product data and the previous supplier rebates. If "0", the relative discount refers directly to the purchase price from the product data. For user-defined items, the supplier discount refers to the gross purchase price entered by the user.
relative	Yes	decimal	The relative discount in percent.
currency	Yes	currency	The currency of the absolute rebate according to ISO 4217 (for example "EUR").
value	Yes	decimal	Amount of the absolute discount.

**3.6.7.9. Product Information**

<b>XML Code:</b> <pdInfo>			
<b>Description:</b> The element <b>pdInfo</b> contains additional product information, partly in the form of attributes, partly in another element. Product information in attributes is independent of the product database used, while the item contained is specific to the product database used by the product. The <b>epdf</b> element may only be included if the value of the attribute <b>pdbType</b> is " <i>epdf</i> ".			
<b>DTD:</b> <pre> &lt;!ELEMENT pdInfo (epdf?)&gt; &lt;!ATTLIST pdInfo   pdbType (undef other epdf ep ocd) #REQUIRED   pkgName CDATA #REQUIRED   manufacturerId CDATA #REQUIRED   seriesId CDATA #REQUIRED   progId CDATA #REQUIRED&gt;                 </pre>			
Attribute	Required	Type	Description
pdbType	Yes	enum	<i>undef</i> - The product database type is not available. This is true, for example for items without product database. <i>other</i> - The type of product database is unknown. <i>epdf</i> - This is an EPDF product database. <i>ep</i> - It is an EPL product database. <i>ocd</i> - It is an OCD product database.
pkgName	Yes	string	OFML name of the package containing the item data. Not to be confused with the package containing the catalog from which the article was inserted. The package name starts with two colons and should not have final colons <sup>14</sup> , e.g. "::OFML::goiex".
manufacturerId	Yes	string	The short name of the manufacturer, consisting of two characters, uppercase letters. The value must be the same as that of the <b>id</b> attribute of the

<sup>14</sup> It is common for packet names to contain two closing colons, but this would be incorrect with regard to the coding language used for OFML.

Attribute	Required	Type	Description
			<b>manufacturer</b> element.
seriesId	Yes	string	The short name of the commercial series of the article, consisting of two characters, uppercase letters. The value must be the same as that of the <b>id</b> attribute of the <b>series</b> element.
progId	Yes	string	ProgID of the program containing the commercial data, e.g. <i>@ofml_goiex</i> . The <b>progId</b> does not necessarily refer to the same package as the <b>pkgName</b> , which is the package that contains the implementation of the article's OFML class. This attribute has only been introduced retrospectively. For older projects that do not contain it, it is derived from the <b>pkgName</b> attribute.

**3.6.7.9.1. EPDF Product Information**

<b>XML Code:</b>	<epdf>
<b>Description:</b>	The <b>epdf</b> element contains additional product information for articles with an EPDF product database.
<b>DTD:</b>	<pre>&lt;!ELEMENT epdf EMPTY&gt; &lt;!ATTLIST epdf   artSrc CDATA #REQUIRED   accountGrp CDATA #REQUIRED   ctrlCode CDATA #REQUIRED   prodHier CDATA #REQUIRED&gt;</pre>

Attribute	Required	Type	Description
artSrc	Yes	string	source of data
accountGrp	Yes	string	account group
ctrlCode	Yes	string	control code
prodHier	Yes	string	product hierarchy

**3.6.7.9.2.**

### 3.6.7.9.3. Article Calculation

The article calculation contains information about discounts and surcharges for the article (or item). Derived prices are not laid out (in contrary to the receipt calculation (§3.6.8)).

<b>XML Code:</b>	<artCalc>
<b>Description:</b>	The <b>artCalc</b> element contains information about supplier rebates and additional discounts and surcharges in the form of additional elements.
<b>DTD:</b>	<!ELEMENT <b>artCalc</b> (salesPrice?, vendorDiscount*, purchasePrice?, itemDiscount*, itemAddCharge*)> <!ATTLIST <b>artCalc</b>

The number of contained **itemDiscount** and **itemAddCharge** elements is arbitrary. However, it should be noted that applications are sometimes unable to add new elements. Thus, in these applications, no discount or premium can be configured for the item if there is not at least one item for a possibly empty discount or premium in the OFML basket file.

### 3.6.7.9.4. Sales Price

Normally, the selling price of an item is determined from the product data. But there is also the possibility to specify it explicitly in the shopping basket for the respective position. In this case, it is saved as part of the article calculation.

<b>XML Code:</b>	<salesPrice>
<b>Description:</b>	The <b>salesPrice</b> element specifies the sales price explicitly (manually) in the shopping basket for a single item of the item.
<b>DTD:</b>	<!ELEMENT <b>salesPrice</b> EMPTY> <!ATTLIST <b>salesPrice</b> currency CDATA #IMPLIED value CDATA #IMPLIED>

Attribute	Required	Type	Description
currency	No	currency	The currency of the sale price according to ISO 4217 (for example "EUR").
value	No	decimal	Value of the selling price.

### 3.6.7.9.5. Vendor Discount

In the OFML basket, it is possible to define additional supplier discounts for each item in addition to the predefined supplier discounts. For each predefined vendor discount of the item and for each additional custom vendor discount, a **vendorDiscount** item must appear, with those for the predefined vendor discounts appearing first and in the same order as the corresponding **predefVendorDiscount** items.

<b>XML Code:</b>	<vendorDiscount>
<b>Description:</b>	The <b>vendorDiscount</b> element specifies a supplier discount for the item. It must appear for each predefined supplier discount as well as for each user-defined supplier discount, with the predefined supplier rebates discounts by the user-defined supplier rebates and appearing in the same order as the corresponding <b>predefVendorDiscount</b> elements. The attributes currency and value may only be used simultaneously. If they are given, they will specify the relative or absolute discount. In the absence of a predefined discount, the values of the corresponding <b>predefVendorDiscount</b> element are used. In the case of a user-defined discount, the discount is zero (but still displayed).



<b>DTD:</b> <!ELEMENT <b>vendorDiscount</b> EMPTY> <!ATTLIST <b>vendorDiscount</b> label CDATA #REQUIRED incr (0 1) #REQUIRED inOrderList (0 1) #REQUIRED predefined (0 1) #REQUIRED currency CDATA #IMPLIED value CDATA #IMPLIED>			
Attribute	Required	Type	Description
label	Yes	string	The name of the supplier discount. For predefined supplier discounts, it must match the name of the corresponding <b>predefVendorDiscount</b> item.
incr	Yes	bool	If "1" (true), the relative supplier rebate refers to the current difference between the purchase price and the previous supplier rebates provided by the product data. In the case of an absolute supplier discount, the relative value in the ad should be calculated on the basis of this difference. Otherwise, the relative supplier discount refers directly to the purchase price provided by the product data. <sup>15</sup>
inOrderList	Yes	bool	If "1" (true), the supplier discount for the article is explicitly displayed in the document. Otherwise, it will only be included in the purchase price of the item or item. <sup>16</sup>
predefined	Yes	bool	When "1" (true) the element refers to a predefined vendor discount. If the <b>currency</b> and <b>value</b> attributes are not specified, the values from the corresponding <b>predefVendorDiscount</b> element will be used. If "0" (false), this is a user-defined supplier discount.
currency	No	currency	For absolute discount the currency according to ISO 4217 (for example "EUR"), for relative discount "%".
value	No	decimal	Amount of the discount, for relative discount in percent.

### 3.6.7.9.6. Purchase Price

The item for the purchase price was originally used to set a fixed purchase price, which served as the basis for calculating the automatically adjusted supplier rebate.<sup>17</sup> This functionality is no longer available from version 1.0rc5 of the OBK. The item **purchasePrice**, if specified, should be empty.

<b>XML Code:</b> <purchasePrice>			
<b>Description:</b> The element <b>purchasePrice</b> specifies explicitly (manually) in the shopping basket for a single article priced purchase price. It is no longer supported as of version 1.0rc5 and should therefore be empty if specified (no attributes).			
<b>DTD:</b> <!ELEMENT <b>purchasePrice</b> EMPTY> <!ATTLIST <b>purchasePrice</b> currency CDATA #IMPLIED value CDATA #IMPLIED>			
Attribute	Required	Type	Description
currency	No	currency	The currency of the purchase price according to ISO 4217 (for example

<sup>15</sup>Version 1.0 of the OBK only supports incremental supplier discounts. The **incr** attribute should be set to "1".

<sup>16</sup> In version 1.0 of the OBK, supplier discounts are not displayed in the document. The attribute **inOrderList** should be set to "1".

<sup>17</sup> When entering a purchase price, the predefined supplier discount for the item in question is set to zero and a user-defined absolute supplier discount is inserted, the amount of which results from the difference between the entered purchase price and the purchase price delivered by the product data.

Attribute	Required	Type	Description
			"EUR").
value	No	decimal	Amount of the selling price.

### 3.6.7.9.7. Rabatt für Artikel

<b>XML Code:</b>	<itemDiscount>
<b>Description:</b>	The <b>itemDiscount</b> item specifies a discount for the item. If the <b>value</b> attribute is not specified or contains an empty string, the discount is empty, i.e. not forgiven. The attributes <b>label</b> and <b>inOrderList</b> must still exist and should contain meaningful values.
<b>DTD:</b>	<pre>&lt;!ELEMENT itemDiscount EMPTY&gt; &lt;!ATTLIST itemDiscount   label CDATA #REQUIRED   incr (0 1) #REQUIRED   inOrderList (0 1) #REQUIRED   currency CDATA #IMPLIED   value CDATA #IMPLIED&gt;</pre>

Attribute	Required	Type	Description
label	Yes	string	Name of the discount.
incr	Yes	bool	If "1", the relative discount refers to the current difference from the sales price and previous discounts provided by the product data. If it is an absolute discount, calculate the relative value in the ad based on this difference. Otherwise, the relative discount will be directly related to the sales price provided by the product data.
inOrderList	Yes	bool	If "1" (true), the discount for the item in the document is explicitly displayed. Otherwise, it is only included in the selling price of the item or item. <sup>18</sup>
currency	No	currency	For absolute discount the currency according to ISO 4217 (for example "EUR"), for relative discount "%".
value	No	decimal	Amount of the discount, for relative discount in percent. The value can also be negative. In this case, it is a surcharge.

Relative discounts for items / items always refer to the retail price (see §3.6.7.7). Chain discounts are therefore not possible.

<sup>18</sup>It is up to the application to evaluate the value of the attribute inOrderList. Applications can also ignore it and generally show all discounts or include them in the sales price.

### 3.6.7.9.8. Surcharge on article

Starting with OBK 1.0beta11, no explicit surcharges are supported anymore. Instead, negative discounts will be used. The XML should not use **itemAddCharge** elements or only those without the **currency** and **value** attributes.

<b>XML Code:</b>	<itemAddCharge>		
<b>Description:</b>	The element <b>itemAddCharge</b> specifies a premium for the item. If the value attribute is not specified or contains an empty string, the serve is empty, i.e. not forgiven. The <b>label</b> and <b>inOrderList</b> attributes must still exist and should contain meaningful values.		
<b>DTD:</b>	<pre>&lt;!ELEMENT itemAddCharge EMPTY&gt; &lt;!ATTLIST itemAddCharge   label CDATA #REQUIRED   incr (0 1) #REQUIRED   inOrderList (0 1) #REQUIRED   currency CDATA #IMPLIED   value CDATA #IMPLIED&gt;</pre>		
Attribute	Required	Type	Description
label	Yes	string	Designation of the surcharge.
incr	Yes	bool	If "1", the relative premium to the running total relates to the sales price provided by the product data, the negated discounts and the previous premiums. If it is an absolute premium, calculate the relative value in the ad based on this total. Otherwise, the relative surcharge will be directly related to the sales price provided by the product data.
inOrderList	Yes	bool	If "1" (true), the markup for the item in the document is explicitly displayed. Otherwise, it will only be included in the sales price of the item or item. <sup>19</sup>
currency	No	currency	For absolute premium, the currency according to ISO 4217 (for example "EUR"), for relative premium "%".
value	No	decimal	Amount of the surcharge, for relative premium in percent.

Relative surcharges for items / items always refer to the selling price (see §3.6.7.7). Chained surcharges are therefore not possible.

### 3.6.7.10. Alternative Items

Alternative positions are positions that appear in a specific offer, but are not really part of the offer. For them, a price is shown, but not in the total price.

The support of alternative positions in the basket is designed in such a way that it is possible to have several alternative offers within a project, each of which can contain different alternative positions.

For this, each quotation receives a UUID, and each item optionally has a note in which offers it has to appear as an alternative item.<sup>20</sup>

<sup>19</sup>It is up to the application to evaluate the value of the attribute **inOrderList**. Applications can also ignore it and generally include all surcharges or include it in the selling price.

<sup>20</sup>Currently, alternative offer configuration is not supported, and one offer of a project does not have a UUID. However, since a null UUID in the **exclOffer** element refers to each offer, it is still possible to mark alternative items as such.

<b>XML Code:</b>	<exclOffers>		
<b>Description:</b>	The <b>exclOffers</b> element usually contains one or more <b>exclOffer</b> elements, each of which specifies the UUID of an offer in which the article item should appear as an alternate item. Item items that do not appear in any offer as an alternative item do not need an <b>exclOffers</b> item.		
<b>DTD:</b>	<!ELEMENT <b>exclOffers</b> (exclOffer*)> <!ATTLIST <b>exclOffers</b>		
<b>XML Code:</b>	<exclOffer>		
<b>Description:</b>	The element <b>exclOffer</b> specifies a single quote in which the position should appear as an alternative item.		
<b>DTD:</b>	<!ELEMENT <b>exclOffer</b> EMPTY> <!ATTLIST <b>exclOffer</b> id CDATA #REQUIRED>		
Attribute	Required	Type	Description
id	Yes	uuid	The UUID of the quotation in which the position should appear as an alternative item. If this is the null UUID (00000000-0000-0000-0000-000000000000), the position appears as an alternative item in all bids in the project.

### 3.6.7.11. Article Inconsistency

Sometimes it is possible that articles may have inconsistent configurations. This is e.g. then the case when a feature value not selected after insertion of an article has to be determined before the article can be ordered.

<b>XML Code:</b>	<inconsistency>		
<b>Description:</b>	<p>If the element <b>inconsistency</b> exists, then the article has an inconsistency. If the description of the cause of this inconsistency is available, it is contained in a child element of type <b>text</b>. Since it is currently not possible to query the corresponding text in a specific language, in this case the attribute <b>lang</b> is missing, which otherwise defines the language of the text contained in <b>text</b> elements.</p> <p>If it becomes possible in the future to query the cause of the inconsistency in several languages, the element <b>inconsistency</b> will contain several <b>text</b> elements, which then differ from one another in the value of the attribute <b>lang</b>.</p>		
<b>DTD:</b>	<!ELEMENT <b>inconsistency</b> (text*)> <!ATTLIST <b>inconsistency</b>		

### 3.6.8. Receipt Calculation

The receipt calculation contains prices and discounts for the entire document (shopping basket). In detail these are:

- the sum of the dealer purchase prices of all items,
- the sum of the selling prices of the trader of all positions (net prices without discounts and surcharges),
- the sum of the net prices of all positions,
- the discount on the entire receipt, net, relative and absolute,
- the discount on the entire receipt, gross, relative and absolute (relative amount identical to relative net rebate, absolute amount identical to absolute net rebate plus VAT),
- the net price (sum of net prices of all positions minus discount (net)),
- the VAT,

- the gross price (net price plus VAT).

The first three values are always dependent on the sum of the corresponding prices of the individual items. The sum of net prices of all items can be specified by the user, in which case but always appropriate discounts are set for all positions, and then the sum of net prices is recalculated.

Each of the four discount values (relative / net, absolute / net, relative / gross, absolute / gross) can be specified by the user. The corresponding value is then used as the basis for calculating the other discount values, the net rate, the absolute value of the VAT and the gross price. The default value does not change even if the sum of the net prices changes, unless the net price becomes negative.

If the net price is specified by the user, then it serves as a basis for calculating the discount, the absolute value of the VAT and the gross price. The default value does not change even if the sum of the net prices changes, unless the discount would be negative.

If the gross price specified by the user, so it serves as a basis for calculating the Abso-lutwert of VAT, the net price and discount. The default value does not change even if the sum of the net prices changes, unless the discount would be negative.

<b>XML Code:</b> <bskCalc>			
<b>Description:</b> The element <b>bskCalc</b> contains the prices and discounts for the entire document. It must contain six <b>totalPrice</b> elements (total merchant purchase prices, total sales prices, total net prices, net price, value added tax, gross price) and four <b>totalDiscount</b> elements (relative/net, absolute/net, relative/gross, absolute/gross).			
<b>DTD:</b> <!ELEMENT <b>bskCalc</b> (totalPrice totalDiscount)+> <!ATTLIST <b>bskCalc</b> fixed CDATA #REQUIRED currency CDATA #REQUIRED>			
Attribute	Required	Type	Description
fixed	Yes	integer	0 - no default value 3 - relative discount (net) is given 4 - absolute discount is given as net value (excluding VAT) 5 - relative discount (gross) is given 6 - absolute discount is given as gross value (including VAT) 7 - the net price is given 8 - the gross price is given
currency	Yes	currency	The currency to be used within the document costing according to ISO 4217 (for example "EUR")

**3.6.8.1. Gesamtpreis**

<b>XML Code:</b> <totalPrice>			
<b>Description:</b> <b>totalPrice</b> elements contain the total price specified with the <b>type</b> attribute within the document costing.			
<b>DTD:</b> <!ELEMENT <b>totalPrice</b> EMPTY> <!ATTLIST <b>totalPrice</b> type (purchase sale artNetTotal net VAT gross) #REQUIRED currency CDATA #REQUIRED value CDATA #REQUIRED>			
Attribute	Required	Type	Description
type	Yes	enum	<i>purchase</i> - Sum of dealer purchase prices <i>sale</i> - Sum of retailer's retail prices <i>artNetTotal</i> - Sum of net prices <i>net</i> - net price of the voucher <i>VAT</i> - VAT (relative)

Attribute	Required	Type	Description
			Gross - gross price of the document
currency	Yes	currency	Currency of the relevant price according to ISO 4217 (for example "EUR"), unless the attribute <b>type</b> has the value "VAT", in which case the attribute <b>currency</b> must have the value "%".
value	Yes	decimal	Amount of the price in the <b>currency</b> specified with the currency attribute or, in the case of VAT, in percent.

**3.6.8.2. Gesamtrabatt**

<p><b>XML Code:</b> &lt;totalDiscount&gt;</p> <p><b>Description:</b> <b>TotalDiscount</b> elements contain the discount specified in the <b>type</b> calculation with the type attribute.</p> <p><b>DTD:</b></p> <pre>&lt;!ELEMENT totalDiscount EMPTY&gt; &lt;!ATTLIST totalDiscount   type (relNet absNet relGross absGross) #REQUIRED   currency CDATA #REQUIRED   value CDATA #REQUIRED&gt;</pre>			
Attribute	Required	Type	Description
type	Yes	enum	<p><i>relNet</i> - relative discount (net)</p> <p><i>absNet</i> - absolute discount as net value</p> <p><i>relGross</i> - relative discount (gross)</p> <p><i>Absolutely</i> - absolute discount as gross value</p> <p>The values of the relative discounts net and gross must be identical, the absolute discount as gross value must be equal to the absolute discount as net value plus VAT.</p>
currency	Yes	currency	Currency of the respective absolute value according to ISO 4217 (for example "EUR") or "%" for the relative values.
value	Yes	decimal	Amount in the specified currency or in percent.

**3.7. Basket View**

For each shopping basket, there is at least one shopping basket view that defines the visible structure of the shopping basket.<sup>21</sup> Furthermore, the quantity and order of the visible columns can be defined for each shopping basket view.

<p><b>XML Code:</b> &lt;view&gt;</p> <p><b>Description:</b> The element <b>view</b> contains statistical information in the <b>viewCounts</b> element, as well as the configuration of the shopping basket view in the <b>viewConfig</b> element and with the element <b>folder</b> the root of the view's objects arranged in a tree structure.</p> <p><b>DTD:</b></p> <pre>&lt;!ELEMENT view (viewCounts?, viewConfig, appData?, folder)&gt; &lt;!ATTLIST view   id CDATA #REQUIRED   name CDATA #REQUIRED&gt;</pre>			
Attribute	Required	Type	Description
id	Yes	uuid	Unique ID of the shopping basket view. The ID of the default view that must be present in each OFML basket file is

<sup>21</sup>In the current implementation, the basket view structure is the same as the basket structure.

Attribute	Required	Type	Description
			5726009a-756d-11d6-9c21-00e029099a4b
name	Yes	string	The name of the basket view.

### 3.7.1. Statistics for basket view

In order to be able to realize a meaningful progress display when importing, information about the number of objects contained in the view must be stored at the beginning of the basket view.

<b>XML Code:</b>	<viewCounts>		
<b>Description:</b>	This element is optional.		
<b>DTD:</b>	<!ELEMENT viewCounts EMPTY> <!ATTLIST viewCounts items CDATA #IMPLIED>		
Attribute	Required	Type	Description
items	Yes	integer	Contains the number of objects in the shopping basket view.

### 3.7.2. Configuration of the basket view

In addition to the currently unused information about the sorting of the items in the shopping basket view (sorted, planning-related) and the type of display of specific shopping basket nodes, the configuration of the shopping basket view contains the list of columns to be displayed in the shopping basket view.

<b>XML Code:</b>	<viewConfig>		
<b>Description:</b>	The <b>viewConfig</b> element contains additional elements with information about the configuration of the shopping basket view.		
<b>DTD:</b>	<!ELEMENT viewConfig (displayMode, sortOrder, visibleColumns)> <!ATTLIST viewConfig>		

#### 3.7.2.1. Display Mode

This element controls the display of items in the shopping basket view. Most attributes must be specified as dictated by the DTD, as the implementation of the shopping basket currently disallows other options.

<b>XML Code:</b>	<displayMode>		
<b>Description:</b>	Used to set the display style for a specific type of shopping basket node. Furthermore, the <b>hiddenDiscounts</b> attribute controls the handling of discounts marked as not visible at item level in the item table of the shopping basket module.		
<b>DTD:</b>	<!ELEMENT displayMode EMPTY> <!ATTLIST displayMode mode (2) #REQUIRED expGroup (0 1) #REQUIRED expPIFolder (1) #REQUIRED expBskFolder (0) #REQUIRED expPartPI (0) #REQUIRED expAggr (0) #REQUIRED hiddenDiscounts (0 1)>		
Attribute	Required	Type	Description
expGroup	Yes	bool	If the value is "1", no separate item is displayed for planning groups (groupings of articles in the graphical configuration) in the article list and in the article tree. The appropriate place is taken directly by the

Attribute	Required	Type	Description
			children of the group. If the value is "0", the article list for the group displays a position that contains the children of the group as sub-items.
hiddenDiscounts	No	bool	If the value is "1", then, if supported by the application, discounts marked as not visible at item level in the item table of the shopping basket module are not displayed. If the value is "0", all non-zero discounts are always shown in the item table. This flag has no effect on exports and printing.

### 3.7.2.2. *Sorting*

This element must be written in the current implementation of the OFML basket as specified.

<b>XML Code:</b>	<sortOrder>
<b>Description:</b>	Will be used in a future version of the OFML Basket to specify the sorting of objects in the shopping basket view.
<b>DTD:</b>	<!ELEMENT sortOrder EMPTY> <!ATTLIST sortOrder>

### 3.7.2.3. *Visible Columns*

In a shopping basket view, only a subset of the columns configured for the shopping basket is usually displayed. Each column to be displayed must be listed as a **visibleColumn** element within the **visibleColumns** element.

<b>XML Code:</b>	<visibleColumns>		
<b>Description:</b>	The element <b>visibleColumns</b> contains one column element for each column to be displayed in the goods basket view. The order of the <b>column</b> elements determines the order of the visible columns.		
<b>DTD:</b>	<!ELEMENT visibleColumns (visibleColumn+)> <!ATTLIST visibleColumns>		
<b>XML Code:</b>	<visibleColumn>		
<b>Description:</b>	The <b>visibleColumn</b> element contains in the <b>id</b> attribute the ID of a column to be displayed.		
<b>DTD:</b>	<!ELEMENT visibleColumn EMPTY> <!ATTLIST visibleColumn id CDATA #REQUIRED>		
Attribute	Required	Type	Description
id	Yes	uuid	The ID of the column to be displayed. It must be identical to one of the columns listed in the shopping basket configuration (§3.4.1).

## 3.7.3. Elements in the Basket View

### 3.7.3.1. *Folder*

<b>XML Code:</b>	<folder>
------------------	----------



<b>Description:</b>	The <b>folder</b> element represents a folder in the shopping basket view. At present, it is always deposited in the shopping basket by a corresponding folder, just as every folder in the shopping basket has an appropriate folder in every shopping basket view. The subelement <b>posNr</b> should not be specified for the root folder of the shopping basket view. <sup>22</sup> For all other folders it is necessary.		
<b>DTD:</b>	<pre>&lt;!ELEMENT folder (posNr?, appData?, (folder article)*)&gt; &lt;!ATTLIST folder   viewId CDATA #REQUIRED   basketId CDATA #REQUIRED&gt;</pre>		
Attribute	Required	Type	Description
viewId	Yes	uuid	The unique ID of the folder in the shopping basket view.
basketId	Yes	uuid	The ID of the associated folder from the shopping basket.

### 3.7.3.2. Artikel

<b>XML Code:</b>	<article>		
<b>Description:</b>	The <b>article</b> element represents an item in the shopping basket view. It always deposited by a corresponding article in the shopping basket, as well as each article from the shopping basket has a corresponding article in each shopping basket view.		
<b>DTD:</b>	<pre>&lt;!ELEMENT article (posNr, appData?, article*)&gt; &lt;!ATTLIST article   viewId CDATA #REQUIRED   basketId CDATA #REQUIRED&gt;</pre>		
Attribute	Required	Type	Description
viewId	Yes	uuid	The unique ID of the item in the shopping basket view.
basketId	Yes	uuid	The ID of the assigned item from the shopping basket.

## 3.8. List of shopping basket items in the cut buffer

The cut buffer currently only contains a list of selected basket items, including their sub items, if applicable. These shopping basket items appear in the XML document as children of the **items** element, with the child items appearing as children of the corresponding parent items.

The basket items can only be basket items and folders, because the items and folders cannot be edited using Cut / Copy / Paste.

<b>XML Code:</b>	<items>		
<b>Description:</b>	The <b>items</b> element is a direct child of the document root element <b>cutBuffer</b> . It contains as children a non-empty list of the cut out, copied or inserted basket items and folders.		
<b>DTD:</b>	<pre>&lt;!ELEMENT items (bskFolder bskArticle usrArticle)+&gt; &lt;!ATTLIST items&gt;</pre>		

<sup>22</sup>If specified, the value of the item number must be empty ("").

## 3.9. General Elements

### 3.9.1. Name

This element is used within the manufacturer (§3.6.7.1) and serial (§3.6.7.2) elements.

<b>XML Code:</b>	<name>		
<b>Description:</b>	The <b>name</b> element contains the name of a manufacturer or series in the language specified by the <b>lang</b> attribute.		
<b>DTD:</b>	<!ELEMENT name (#PCDATA)> <!ATTLIST name lang CDATA #REQUIRED>		
Attribute	Required	Type	Description
lang	Yes	string	The language of the manufacturer or series name as ISO 639 language code. If the value of this attribute consists of two spaces, it is the default name to be used by the application if no name can be found in the required language.

### 3.9.2. Text

This element is used within the description elements (§3.6.7.4) and to describe the reason of an inconsistent configuration (§3.6.7.11).

<b>XML Code:</b>	<text>		
<b>Description:</b>	The text element is used instead of plain text in #PCDATA where text can be in different languages.		
<b>DTD:</b>	<!ELEMENT text (#PCDATA)> <!ATTLIST text lang CDATA #REQUIRED>		
Attribute	Required	Type	Description
lang	Yes	string	The language of the description of the article as ISO 639 language code.

### 3.9.3. Position Numbers

Item numbers are assigned to all items within the shopping basket views except the root folder.

<b>XML Code:</b>	<posNr>		
<b>Description:</b>	The <b>posNr</b> element contains the item number of an item in a shopping basket view.		
<b>DTD:</b>	<!ELEMENT posNr EMPTY> <!ATTLIST posNr value CDATA #REQUIRED>		
Attribute	Required	Type	Description
value	Yes	string	The position number as one or more unsigned integers, separated by a single point. <sup>23</sup>

<sup>23</sup>If a position number is written for the root folder of a shopping basket view, the value of the **value** attribute must be an empty string.

### 3.9.4. Application specific data

Application-specific data may be added by the application to certain elements of the shopping basket and shopping basket views.

<b>XML Code:</b>	<appData>		
<b>Description:</b>	The <b>appData</b> element contains zero or more <b>application</b> elements, one for each application or module, that has appended application-specific data to the element.		
<b>DTD:</b>	<!ELEMENT <b>appData</b> (application)*> <!ATTLIST <b>appData</b>		
<b>XML Code:</b>	<application>		
<b>Description:</b>	The <b>application</b> element contains the data appended to the application or module identified by the <b>key</b> attribute to the element containing the <b>appData</b> element.		
<b>DTD:</b>	<!ELEMENT <b>application</b> ANY> <!ATTLIST <b>application</b> key CDATA #REQUIRED>		
Attribute	Required	Type	Description
key	Yes	string	The key that identifies the application or module. An example is " <i>fandc/basket</i> " (shopping basket module of the GUI of OBK and SCE).

## 3.10. Dokument Type Definition

```
<?xml version='1.0'?>
<!DOCTYPE (basket | cutBuffer)24 [

<!ELEMENT basket
  (versionInfo?, bskCounts?, config, genImgURIs, appData?, topFolder,
  bskCalc, view+)>
<!ATTLIST basket>

<!ELEMENT cutBuffer (versionInfo?, items)>
<!ATTLIST cutBuffer>

<!ELEMENT versionInfo EMPTY>
<!ATTLIST versionInfo
  vendorKey CDATA #REQUIRED
  appKey CDATA #REQUIRED
  appVersion CDATA #REQUIRED
  bskXmlVersion CDATA #IMPLIED
  bskVersion CDATA #IMPLIED>

<!ELEMENT bskCounts EMPTY>
<!ATTLIST bskCounts
  items CDATA #IMPLIED
  views CDATA #IMPLIED>

<!ELEMENT config (column+, defaultView, currency, VAT)>
<!ATTLIST config>
```

<sup>24</sup>This notation does not conform to the XML specification, but was used to simplify the two document type definitions for storing the shopping basket in project files and for storing shopping basket items in the cut-buffer, the second of which is essentially a subset of the first is to summarize.

```

<!ELEMENT column (defColValue)?>
<!ATTLIST column
  id CDATA #REQUIRED
  type (builtin|text|number|bool|image|eclass) #REQUIRED
  name CDATA #REQUIRED
  title CDATA #REQUIRED
  defColId CDATA #IMPLIED>

<!ELEMENT defColValue (#PCDATA)>
<!ATTLIST defColValue>

<!ELEMENT genImgURIs (genImgURI*)>
<!ATTLIST genImgURIs>

<!ELEMENT genImgURI (#PCDATA)>
<!ATTLIST genImgURI
  progId CDATA #REQUIRED
  manuld CDATA #REQUIRED
  seriesId CDATA #REQUIRED
  artNo CDATA #REQUIRED
  varCode CDATA #REQUIRED>

<!ELEMENT topFolder
  (appData?, (bskFolder|bskArticle|usrArticle|plFolder|plArticle)*)>
<!ATTLIST topFolder
  basketId CDATA #REQUIRED>

<!ELEMENT bskFolder
  (label, appData?, (bskFolder|bskArticle|usrArticle)*)>
<!ATTLIST bskFolder
  basketId CDATA #REQUIRED>

<!ELEMENT plFolder
  (label, appData?, (plFolder|plArticle|bskFolder|bskArticle|usrArticle)*)>
<!ATTLIST plFolder
  basketId CDATA #REQUIRED
  planId CDATA #REQUIRED>

<!ELEMENT label (#PCDATA)>
<!ATTLIST label>

<!ELEMENT bskArticle
  (mainItem?, metalItem?, manufacturer?, series?, artNr+, description+,
  features, quantity?, itemPrice+, predefVendorDiscount*, pdInfo,
  inconsistency?, artCalc, addStateCode?, subArticle*, catalogInfo,
  exclOffers?, propSubArticle?, appData?, (bskArticle|usrArticle)*)>
<!ATTLIST bskArticle
  basketId CDATA #REQUIRED
  itemType (BasketArticle|BasketPartialPlanning|BasketAggregate) #REQUIRED
  subItem (0|1) "0">

<!ELEMENT addStateCode (#PCDATA)>
<!ATTLIST addStateCode
  type (ChildProps) #REQUIRED>

<!ELEMENT subArticle EMPTY>
<!ATTLIST subArticle
  id CDATA #REQUIRED>

```

```

<!ELEMENT propSubArticle EMPTY>
<!ATTLIST propSubArticle
  id CDATA #REQUIRED>

<!ELEMENT mainItem EMPTY>
<!ATTLIST mainItem
  id CDATA #REQUIRED>

<!ELEMENT metaltem EMPTY>
<!ATTLIST metaltem
  id CDATA #REQUIRED>

<!ELEMENT plArticle
  (label, manufacturer?, series?, artNr+, description+, features, itemPrice+,
  predefVendorDiscount*, pdInfo, inconsistency?, artCalc, appData?,
  (plArticle|bskArticle|usrArticle)*)>
<!ATTLIST plArticle
  basketId CDATA #REQUIRED
  itemType (Article|Group|PartialPlanning|Aggregate) #REQUIRED
  planId CDATA #REQUIRED>

<!ELEMENT usrArticle
  (manufacturer?, series?, artNr+, description+, quantity?, itemPrice+,
  predefVendorDiscount*, pdInfo, artCalc, exclOffers?, featureText, appData?,
  (bskArticle|usrArticle)*)>
<!ATTLIST usrArticle
  basketId CDATA #REQUIRED
  itemType (UserArticle) #REQUIRED>

<!ELEMENT manufacturer (name*)>
<!ATTLIST manufacturer
  id CDATA #REQUIRED>

<!ELEMENT series (name*)>
<!ATTLIST series
  id CDATA #REQUIRED>

<!ELEMENT artNr (#PCDATA)>
<!ATTLIST artNr
  type (base|final|varcode) #REQUIRED
  default (0|1) "0">

<!ELEMENT description (text*)>
<!ATTLIST description
  type (short|long|features) #REQUIRED
  default (0|1) #REQUIRED>

<!ELEMENT features (feature*)>
<!ATTLIST features>

<!ELEMENT feature (nameText*, valueText*, descrText*)>
<!ATTLIST feature
  name CDATA #REQUIRED
  value CDATA #REQUIRED
  flags CDATA #REQUIRED
  id ID #IMPLIED
  nameText IDREF #IMPLIED
  valueText IDREF #IMPLIED
  descrText IDREF #IMPLIED>

```

```

<!ELEMENT featureText (#PCDATA)>
<!ATTLIST featureText

<!ELEMENT nameText (#PCDATA)>
<!ATTLIST nameText
  lang CDATA #REQUIRED>

<!ELEMENT valueText (#PCDATA)>
<!ATTLIST valueText
  lang CDATA #REQUIRED>

<!ELEMENT descrText (descrLine+)>
<!ATTLIST descrText
  lang CDATA #REQUIRED>

<!ELEMENT descrLine (descrField0, descrField1)>
<!ATTLIST descrLine

<!ELEMENT descrField0 (#PCDATA)>
<!ATTLIST descrField0>

<!ELEMENT descrField1 (#PCDATA)>
<!ATTLIST descrField1>

<!ELEMENT quantity EMPTY>
<!ATTLIST quantity
  count CDATA #REQUIRED>

<!ELEMENT itemPrice EMPTY>
<!ATTLIST itemPrice
  type (purchase|sale) #REQUIRED
  pd (0|1) "0"
  override (0|1) "0"
  currency CDATA #REQUIRED
  value CDATA #REQUIRED>

<!ELEMENT pkgName EMPTY>
<!ATTLIST pkgName
  value CDATA #REQUIRED>

<!ELEMENT predefVendorDiscount EMPTY>
<!ATTLIST predefVendorDiscount
  label CDATA #REQUIRED
  incr (0|1) #REQUIRED
  relative CDATA #REQUIRED
  currency CDATA #REQUIRED
  value CDATA #REQUIRED>

<!ELEMENT pdInfo (epdf?)>
<!ATTLIST pdInfo
  pdbType (undef|other|epdf|epi|ocd) #REQUIRED
  pkgName CDATA #REQUIRED
  manufacturerId CDATA #REQUIRED
  seriesId CDATA #REQUIRED
  progId CDATA #REQUIRED>

```

```
<!ELEMENT epdf EMPTY>
<!ATTLIST epdf
  artSrc CDATA #REQUIRED
  accountGrp CDATA #REQUIRED
  ctrlCode CDATA #REQUIRED
  prodHier CDATA #REQUIRED>

<!ELEMENT artCalc (salesPrice?, vendorDiscount*, purchasePrice?,
  itemDiscount*, itemAddCharge*)>
<!ATTLIST artCalc>

<!ELEMENT salesPrice EMPTY>
<!ATTLIST salesPrice
  currency CDATA #IMPLIED
  value CDATA #IMPLIED>

<!ELEMENT vendorDiscount EMPTY>
<!ATTLIST vendorDiscount
  label CDATA #REQUIRED
  incr (0|1) #REQUIRED
  inOrderList (0|1) #REQUIRED
  predefined (0|1) #REQUIRED  currency CDATA #IMPLIED
  value CDATA #IMPLIED>

<!ELEMENT purchasePrice EMPTY>
<!ATTLIST purchasePrice
  currency CDATA #IMPLIED
  value CDATA #IMPLIED>

<!ELEMENT itemDiscount EMPTY>
<!ATTLIST itemDiscount
  label CDATA #REQUIRED
  incr (0|1) #REQUIRED
  inOrderList (0|1) #REQUIRED
  currency CDATA #IMPLIED
  value CDATA #IMPLIED>

<!ELEMENT itemAddCharge EMPTY>
<!ATTLIST itemAddCharge
  label CDATA #REQUIRED
  incr (0|1) #REQUIRED
  inOrderList (0|1) #REQUIRED
  currency CDATA #IMPLIED
  value CDATA #IMPLIED>

<!ELEMENT exclOffers (exclOffer*)>
<!ATTLIST exclOffers>

<!ELEMENT exclOffer EMPTY>
<!ATTLIST exclOffer
  id CDATA #REQUIRED>

<!ELEMENT inconsistency (text*)>
<!ATTLIST inconsistency>

<!ELEMENT catalogInfo EMPTY>
<!ATTLIST catalogInfo
  id CDATA #REQUIRED
  version CDATA #REQUIRED
  artNr CDATA #REQUIRED
  varCode CDATA "">
```

```

<!ELEMENT bskCalc (totalPrice|totalDiscount)+>
<!ATTLIST bskCalc
  fixed CDATA #REQUIRED
  currency CDATA #REQUIRED>

<!ELEMENT totalPrice EMPTY>
<!ATTLIST totalPrice
  type (purchase|sale|artNetTotal|net|VAT|gross) #REQUIRED
  currency CDATA #REQUIRED
  value CDATA #REQUIRED>

<!ELEMENT totalDiscount EMPTY>
<!ATTLIST totalDiscount
  type (relNet|absNet|relGross|absGross) #REQUIRED
  currency CDATA #REQUIRED
  value CDATA #REQUIRED>

<!ELEMENT view (viewCounts?, viewConfig, appData?, folder)>
<!ATTLIST view
  id CDATA #REQUIRED
  name CDATA #REQUIRED>

<!ELEMENT viewCounts EMPTY>
<!ATTLIST viewCounts
  items CDATA #REQUIRED>

<!ELEMENT viewConfig (displayMode, sortOrder, visibleColumns)>
<!ATTLIST viewConfig>

<!ELEMENT displayMode EMPTY>
<!ATTLIST displayMode
  mode (2) #REQUIRED
  expGroup (0|1) #REQUIRED
  expPIFolder (1) #REQUIRED
  expBskFolder (0) #REQUIRED
  expPartPI (0) #REQUIRED
  expAggr (0) #REQUIRED
  hiddenDiscounts (0|1)>

<!ELEMENT sortOrder EMPTY>
<!ATTLIST sortOrder>

<!ELEMENT visibleColumns (visibleColumn+)>
<!ATTLIST visibleColumns>

<!ELEMENT visibleColumn EMPTY>
<!ATTLIST visibleColumn
  id CDATA #REQUIRED>

<!ELEMENT folder (posNr?, appData?, (folder|article)*)>
<!ATTLIST folder
  viewId CDATA #REQUIRED
  basketId CDATA #REQUIRED>

<!ELEMENT article (posNr, appData?, article*)>
<!ATTLIST article
  viewId CDATA #REQUIRED
  basketId CDATA #REQUIRED>

<!ELEMENT items (bskFolder|bskArticle|usrArticle)+>
<!ATTLIST items>

```



```

<!ELEMENT name (#PCDATA)>
<!ATTLIST name
  lang CDATA #REQUIRED>

<!ELEMENT text (#PCDATA)>
<!ATTLIST text
  lang CDATA #REQUIRED>

<!ELEMENT posNr EMPTY>
<!ATTLIST posNr
  value CDATA #REQUIRED>

<!ELEMENT appData (application)*>
<!ATTLIST appData>

<!ELEMENT application ANY>
<!ATTLIST application
  key CDATA #REQUIRED>
]>

```

## 4. History

### 20017–11–23 [1.5]

- English translation.

### 2006–03–05 [1.4]

- Various syntax errors in the DTD have been fixed.
- Documentation of the new attribute **flags** of the element **feature**.
- Documentation of the new element **inconsistency**.
- Documentation of the new **versionInfo** element.
- Documentation of the attribute **override** of the element **itemPrice**.
- Documentation of using **itemPrice** (with attribute **pd** = 1) and **predefVendorDiscount** for user-defined articles.
- In the DTD fragment in the description of the element **view**, the child element **appData** was missing.
- Documentation of the new elements **descrText**, **descrLine**, **descrField0** and **descrField1**.
- Documentation of the new attributes **id**, **nameText**, **valueText** and **descrText** of the **feature** element.

### 2005–08–05 [1.3]

- Documentation of the element **displayMode** updated, and new attribute **hiddenDiscounts** documented.

### 2005–07–15 [1.2]

- Elements of **cutBuffer** (alternative document root) and **items** documented.
- Formatting and spelling revised, title bar changed to "OFML-Basket XML Format"

### 2004–11–29 [1.1]

- Element **purchasePrice** (no longer used as of OBK 1.0rc5)
- The **genImgURIs** and **genImgURI** elements contain the list of generated product images.
- Support for multiple predefined and user-defined supplier rebates via the new element **predefVendorDiscount** and the extended **vendorDiscount** element

- The element **pdInfo** has a new attribute **proglD**, and the attribute **pdbType** has new value **ocd**
- The element **itemAddCharge** is no longer supported in the OBK.
- The elements **itemDiscount** and **itemAddCharge** have an additional attribute **incr**.

### 2004–06–10 [1.1beta]

- Element **salesPrice** documented.
- The element **quantity** may only be used for **bskArticle** elements whose attribute **subItem** has the value "0".
- The elements **mainItem** and **metalItem** must be the first two child elements of **bskArticle** elements.
- A description element of the type features can be used to store the description of the features of an article provided by *geArticleFeatures()*.
- As a special language abbreviation, two spaces can be used for the **name** element.

### 2003–07–21 [1.0]

- Headline changed to "OFML-Basket XML Format"
- Added new EGR logo

### 2003–07–19 [0.93]

- The elements **artNr**, **description**, **features** and **itemPrice** are optional.
- The elements **exclOffers** and **exclOffer** have been added to identify alternative positions.
- New element **defColValue** for the default value of a user-defined column.
- The **createParams** element has been dropped, since the name of the package is stored with the **pdInfo** element, and the name of the OFML class can and must be determined at runtime.
- description of support for metatypes; The **itemType** *BasketSubArticle* has been omitted, and the new elements **metalItem**, **propSubArticle**, **subArticle** and **addStateCode** as well as the attribute **subItem** of the element **bskArticle** have been added.

### 2003–05–17 [0.92]

- Added a description of the item **posNr**

### 2003–05–12 [0.91]

- Fixes in Formatting

### 2003–05–11 [0.90]

- First version