



# Changelog IDM Living Version 4.1.1 from IDM 4.0.1

This changelog describes all innovations, enhancements and corrections that are made available with the current version **IDML 4.1.1** (compared to version IDML 4.0.1) in both the XML schema and the documentation.

Version IDML 4.1.1 is published on 2025-11-18 and will be valid from 2026-03-01.

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A = Added = Addition of new elements or attributes

C = Changed = Changes to existing elements, attributes or descriptive texts

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F = Fixed = Error corrections to existing elements, attributes or descriptive texts



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# Released

Display of all changes recorded for version 4.1.1

## 1. Introduction to the documentation

1. C Changed description of SUPPLIER under Basic Structure

Decision: 2024-05-20

4.0.1  
SUPPLIER

SUPPLIER is used to store administrative information concerning the manufacturer. Example: specification of contact data, EDI communication parameters or the manufacturer's country of origin.

4.1.1  
SUPPLIER

SUPPLIER is used to store administrative information concerning the manufacturer. Example: specification of contact data or the manufacturer's country of origin.

Since the EDI node was already omitted in an earlier version, the reference to it in the description of the SUPPLIER node under the basic structure of the IDM schema in the introduction to the documentation must also be deleted.



## 2. BRANCH\_ID

### 2.1. C Changed values in the BRANCH\_ID element

Resolution: 2024-05-20

#### 4.0.1

This element specifies the indicator for the industry. The following industry indicators are currently defined:

- A = Worktop manufacturer
- B = Bathroom furniture manufacturer
- C = Bed manufacturer
- G = Appliance manufacturers
- K = Kitchen furniture manufacturer
- M = Mattress manufacturer
- O = Office furniture manufacturer
- P = Upholstery manufacturer
- S = Sanitary manufacturer
- W = Living room furniture manufacturer
- Z = Accessories manufacturer

#### 4.1.1

This element specifies the indicator for the industry. The following industry indicators are currently defined:

- C = Bed manufacturer
- M = Mattress manufacturer
- O = Office furniture manufacturer
- P = Upholstery manufacturer
- W = Living room furniture manufacturer
- Z = Accessories manufacturer

#### 4.0.1

```
<xs:element name="BRANCH_ID" minOccurs="0">
  <xs:annotation>[...]</xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="[ABCGKMOPSWZ]"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

#### 4.1.1

```
<xs:element name="BRANCH_ID" minOccurs="0">
  <xs:annotation>[...]</xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="[CMPWZ]"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

Both in the description and in the pattern, the permitted values in the BRANCH\_ID element have been restricted to the branches relevant to the Living Format.



### 3. PROPERTIES

3.1. C Changed number range in the PROPERTY\_NO attribute Decision: 2023-10-05

```

4.0.1
<xs:attribute name="PROPERTY_NO" use="required">
  <xs:annotation>[...]</xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:nonNegativeInteger">
      <xs:minInclusive value="0"/>
      <xs:maxInclusive value="1999"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>

4.1.1
<xs:attribute name="PROPERTY_NO" use="required">
  <xs:annotation>[...]</xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:nonNegativeInteger">
      <xs:minInclusive value="1000"/>
      <xs:maxInclusive value="1999"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>

```

As the list of predefined PROPERTIES from the IDM Living Format documentation has been omitted, the number range is also limited to the previously free PROPERTIES from 1000 to 1999.

3.1. C Changed number range in the PROPERTY\_NO attribute under PROPERTY\_REF Decision: 2023-10-05

```

4.0.1
<xs:attribute name="PROPERTY_NO" use="required">
  <xs:annotation>[...]</xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:nonNegativeInteger">
      <xs:minInclusive value="0"/>
      <xs:maxInclusive value="1999"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>

4.1.1
<xs:attribute name="PROPERTY_NO" use="required">
  <xs:annotation>[...]</xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:nonNegativeInteger">
      <xs:minInclusive value="1000"/>
      <xs:maxInclusive value="1999"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>

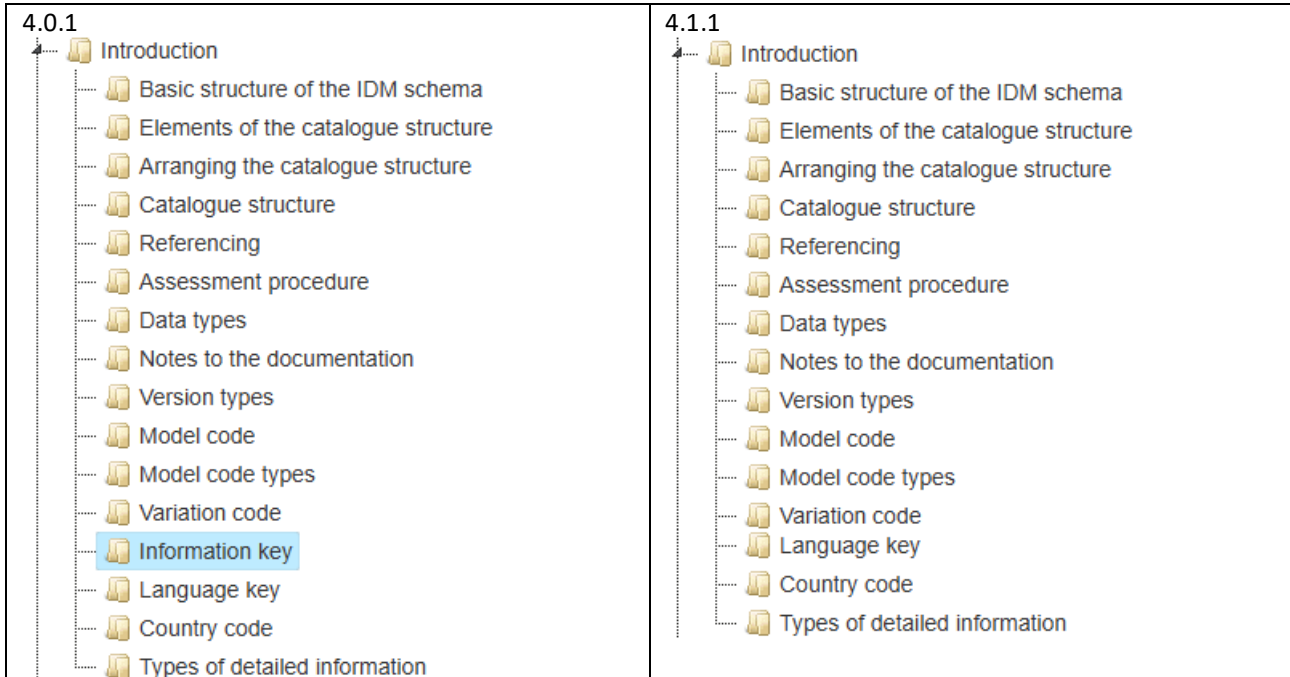
```

As with the properties under GLOBAL\_DEFINITION, PROPERTY\_NO is also restricted to 1000 to 1999 under PROPERTY\_REF below ITEM.



3.2 R Remove list of information keys from introduction

Decision: 2023-10-05



The list of predefined PROPERTIES (information keys) is omitted from the documentation, as only free manufacturer-specific properties are to be stored here. All properties that correspond to a standardised structure should, if possible, be maintained as ECLASS characteristics (ECLASS\_VALUE) at the corresponding nodes. (Take into account the ECLASS licence model for data creators!)

3.3. C Changed description under PROPERTIES

Decision: 2023-10-05

<p>4.0.1</p> <p>This element is used to include additional information and properties such as energy labels, efficiency classes and similar data. Only those properties are defined that are necessary for the correct representation of the catalogue.</p> <p>The keys can be found in the corresponding table (information key).</p>
<p>4.1.1</p> <p>This element is used to include additional information and properties.</p> <p>If structured and standardised properties are to be included, the ECLASS_VALUES must be created at the various nodes under CLASSIFICATION.</p>



3.4. C Changed description in the PROPERTY element

Decision: 2023-10-05

4.0.1

A property is defined in this element.

The keys, the text and the unit of measurement are to be taken from the corresponding table (information key).

4.1.1

A property is defined in this element.

3.5. C Changed description in element PROPERTY\_NO

Decision: 2023-10-05

4.0.1

This attribute identifies the property.

Their number can be found in the table of information keys.

4.1.1

This attribute identifies the property. The number range from 1000 to 1999 is available for this.

3.6. C Changed data type in the PROPERTY\_UNIT element

Decision: 2024-06-20

4.0.1

```
<xs:element name="PROPERTY_UNIT" type="languagetext30" minOccurs="0" maxOccurs="1">
  | <xs:annotation>...</xs:annotation>
  | </xs:element>
```

4.1.1

```
<xs:element name="PROPERTY_UNIT" type="measure_unit" minOccurs="0" maxOccurs="1">
  | <xs:annotation>...</xs:annotation>
  | </xs:element>
```

To ensure consistent units of measurement in the catalogue, the data type `measure_unit` is now used in the `PROPERTY_UNIT` element instead of free text.



## 4. measure\_unit

4.1 C Changed description in simpleType measure\_unit

Decision: 2024-06-20

### 4.0.1

This simple data type defines a list of values for units of measurement in common code.

### 4.1.1

This simple data type defines a list of values for units of measurement in common code.

Common Code/Unit of measurement:

MMT = millimetre  
CMT = Centimetre  
DMT = decimetre  
MTR = metre  
KTM = kilometre  
INH = Inch  
FOT = foot  
YRD = Yard  
MMK = square millimetre  
CMK = square centimetre  
DMK = square decimetre  
MTK = square metre  
INK = square inch  
FTK = square foot  
YDK = square yard  
MGM = milligram  
GRM = gram  
KGM = kilogram  
TNE = tonne  
LBR = pound  
MMQ = cubic millimetre  
CMQ = cubic centimetre  
DMQ = cubic decimetre  
MTQ = cubic metre  
INQ = cubic inch  
FTQ = cubic foot  
YDQ = cubic yard  
HLT = hectolitre  
LTR = litre  
MLT = millilitre  
H87 = Piece

To make the units of measurement stored as common code in the enumeration understandable, the translation is supplemented in the documentation.

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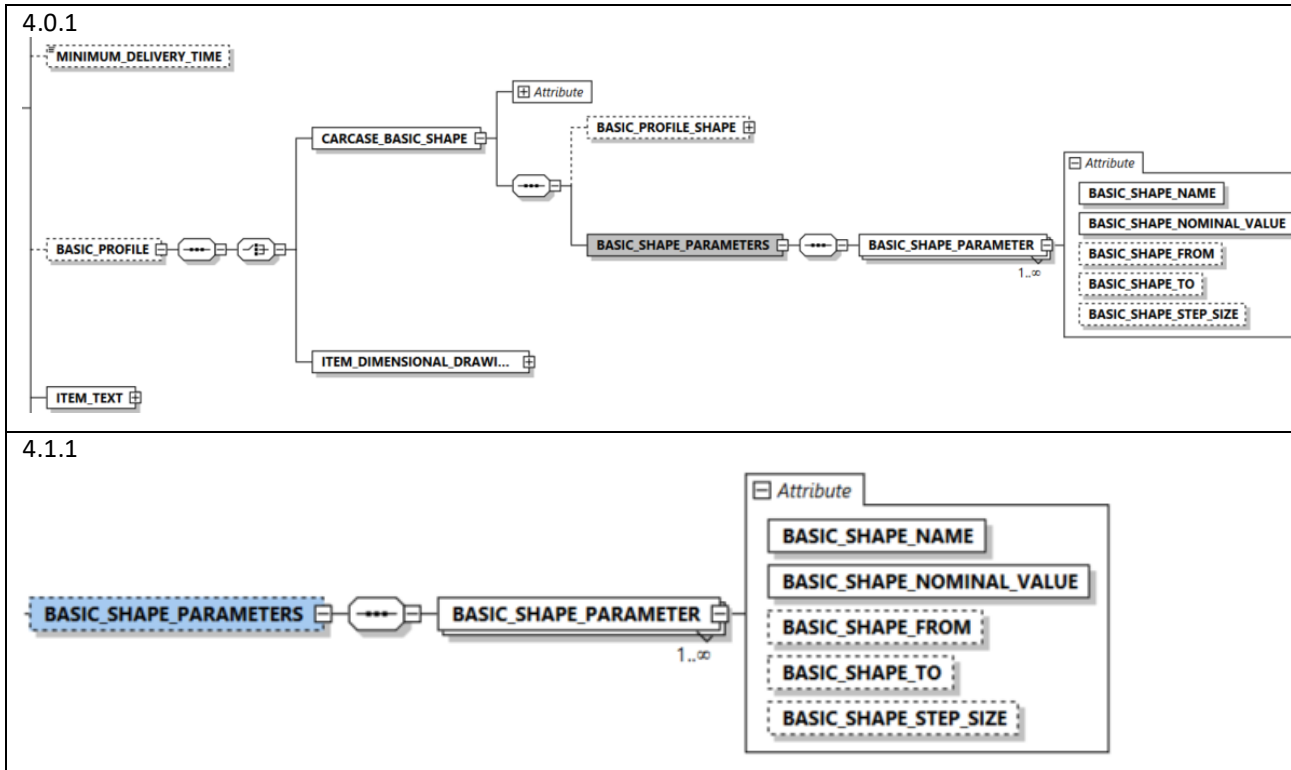
F = Fixed = Error corrections to existing elements, attributes or descriptive texts



## 5. BASIC PROFILE

### 5.1. C Move the BASIC\_SHAPE\_PARAMETERS element under ITEM

Decision: 2024-06-20



Since the Living format does not work with different basic shapes and the ITEM\_DIMENSIONAL\_DRAWING node is not used, only the BASIC\_SHAPE\_PARAMETERS element with its sub-elements remains directly at ITEM. Since the upstream optional node BASIC\_PROFILE is omitted, the BASIC\_SHAPE\_PARAMETERS element itself becomes optional.

```

<xs:element name="BASIC_SHAPE_PARAMETERS" minOccurs="0">
  <xs:annotation>...</xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="BASIC_SHAPE_PARAMETER" maxOccurs="unbounded">
        <xs:annotation>...</xs:annotation>
        <xs:complexType>
          <xs:attribute name="BASIC_SHAPE_NAME" use="required">...</xs:attribute>
          <xs:attribute name="BASIC_SHAPE_NOMINAL_VALUE" use="required">...</xs:attribute>
          <xs:attribute name="BASIC_SHAPE_FROM">...</xs:attribute>
          <xs:attribute name="BASIC_SHAPE_TO">...</xs:attribute>
          <xs:attribute name="BASIC_SHAPE_STEP_SIZE">...</xs:attribute>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

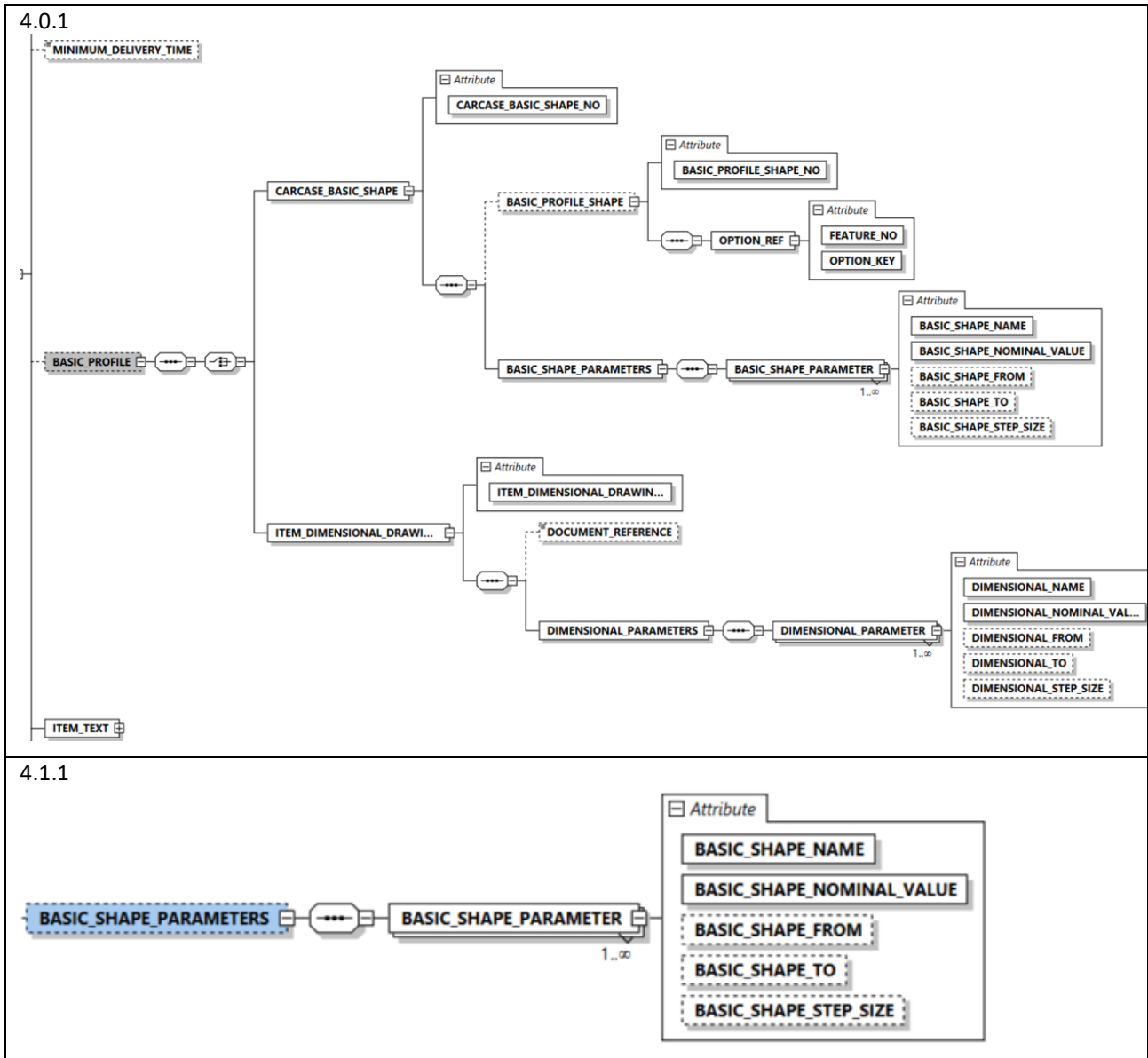
```

A = Added = Addition of new elements or attributes

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R = Removed = Deletion of elements or attributes

F = Fixed = Error corrections to existing elements, attributes or descriptive texts



Since the Living format does not work with different basic shapes and the ITEM\_DIMENSIONAL\_DRAWING node is not used, only the BASIC\_SHAPE\_PARAMETERS element with its sub-elements remains directly on the ITEM.



### 5.3 C Changed description in the BASIC\_SHAPE\_PARAMETERS element Decision: 2025-06-24

#### 4.0.1

This element is used to assign graphically relevant parameters with corresponding values to the item.

The item dimensions allowed for by the factory are described here. If item dimensions that fall outside of the specified dimension ranges are required, these will be custom-made products. Custom-made products must be coordinated with the manufacturer.

For items with a basic shape number = 0 that do not have any dimensions, such as calculation positions (e.g. surcharge for feet shape), the parameters must be filled with 0.

#### 4.1.1

This element is used to assign graphically relevant parameters with corresponding values to the item.

The item dimensions allowed for by the factory are described here. If item dimensions that fall outside of the specified dimension ranges are required, these will be custom-made products. Custom-made products must be coordinated with the manufacturer.

As there are no basic shapes in IDM Living, there is no reference to them in the BASIC\_SHAPE\_PARAMETERS element.

### 5.4. C Changed description in the BASIC\_SHAPE\_PARAMETER element Decision: 2025-06-24

#### 4.0.1

This element is used to specify the values of the parameters **describing a basic shape.**

If an item that is not relevant for visual presentation is created and the item does not have any parameters, then the superordinate node **BASIC\_PROFILE** can be omitted instead of filling the parameters with 0.

#### 4.1.1

This element is used to specify the values of the parameters.

If a non-graphically relevant article is created for which no parameters exist, the parent node **BASIC\_SHAPE\_PARAMETERS** can be omitted instead of filling the parameters with 0.

Since the BASIC\_PROFILE node is omitted and there are no basic shapes in the Living format, the reference to it in the BASIC\_SHPAE\_PARAMETER element also becomes obsolete.



## 6. Missing units of measurement

6.1. A Changed description in WIDTH, DEPTH, HEIGHT and WEIGHT  
under PACKAGE\_LIST\_POS

Decision: 2024-06-20

### WIDTH:

4.0.1  
This element is used to specify the width.

4.1.1  
This element is used to indicate the width **in millimetres (mm)**.

### Depth:

4.0.1  
This element is used to specify the depth.

4.1.1  
This element is used to indicate the depth **in millimetres (mm)**.

### HEIGHT:

4.0.1  
This element is used to specify the height.

4.1.1  
This element is used to indicate the height **in millimetres (mm)**.

### WEIGHT:

4.0.1  
This element is used to indicate the weight.

4.1.1  
This element is used to indicate the weight **in grams (g)**.



6.2. C Changed data type in the WEIGHT element and restriction to 6 digits.

Decision: 2024-06-20

4.0.1

```
<xs:element name="WEIGHT" type="xs:decimal">  
  <xs:annotation>...</xs:annotation>  
</xs:element>
```

4.1.1

```
<xs:element name="WEIGHT">  
  <xs:annotation>...</xs:annotation>  
  <xs:simpleType>  
    <xs:restriction base="xs:nonNegativeInteger">  
      <xs:maxInclusive value="999999"/>  
    </xs:restriction>  
  </xs:simpleType>  
</xs:element>
```

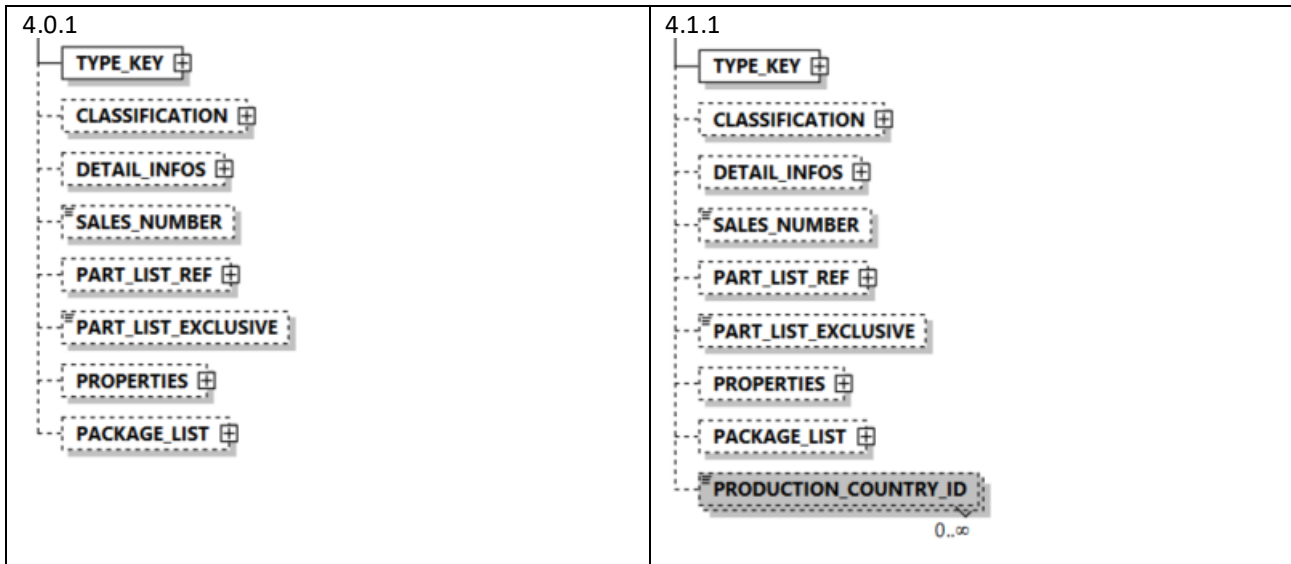
As the weight of packages must now be specified in grams, the data type is corrected to nonNegativeInteger. The specification can be a maximum of 6 digits.



## 7. Country of production

7.1. A New element PRODUCTION\_COUNTRY\_ID under ITEM

Decision: 2024-06-20



The optional element PRODUCTION\_COUNTRY\_ID under ITEM can be specified as often as desired (for each production site) and may contain the 2-digit country code according to ISO 3166 Alpha 2.

### Description in the documentation:

This element maintains the PRODUCTION\_COUNTRY\_ID of the item according to ISO 3166 Alpha 2 from the 'ISO\_COUNTRY\_ID (country key)' list.

If the item is produced in several plants in different countries, all countries from which the item could originate must be specified.

If the country of production is not specified, the value from ISO\_COUNTRY\_ID applies.

```

<xs:element name="PRODUCTION_COUNTRY_ID" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>...</xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="[A-Z]{2}"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

```

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## 8. FEATURES

8.1. R Delete description of FEATURE 106

Decision: 2023-10-05

4.0.1			
Feature	Feature text	Type	Remark/possible variations
1	programme	O	Program as feature
100	front version	O	
101	front colour 1	C	Infill with smooth front panel = full surface
102	front colour 2	C	Frame
103	front colour 3	C	Pilaster strips
104	edge colour front	C	
105	front combination	O	If only one key is specified for multiple front information.
106	front panel group	O	Overwrites the FRONT_GROUP_NO in FEATURE_DEFINITION/OPTION_DEFINITION/STYLE

4.1.1			
Feature	Feature text	Type	Remark/possible variations
1	programme	O	Program as feature
100	front version	O	
101	front colour 1	C	Infill with smooth front panel = full surface
102	front colour 2	C	Frame
103	front colour 3	C	Pilaster strips
104	edge colour front	C	
105	front combination	O	If only one key is specified for multiple front information.
106	front panel group	O	

As the Style element referred to in the description of FEATURE 106 does not exist in the Living format, the description is deleted.



4.0.1

110	front version trim 1	O	
111	front colour 1 trim 1	C	Infill with smooth front panel = full surface
112	front colour 2 trim 1	C	Frame
113	front colour 3 trim 1	C	Pilaster strips
114	front edge colour 1	C	
115	front combination trim 1	O	May contain options 111 to 114
120	front version trim 2	O	
121	front colour 1 trim 2	C	Infill with smooth front panel = full surface
122	front colour 2 trim 2	C	Frame
123	front colour 3 trim 2	C	Pilaster strips
124	front edge colour 2	C	
125	front combination trim 2	O	May contain options 121 to 124

4.1.1

110	front version trim 1	O	
111	front colour 1 trim 1	C	Infill with smooth front panel = full surface
112	front colour 2 trim 1	C	Frame
113	front colour 3 trim 1	C	Pilaster strips
114	front edge colour 1	C	
115	front combination trim 1	O	May contain options 110 to 114
120	front version trim 2	O	
121	front colour 1 trim 2	C	Infill with smooth front panel = full surface
122	front colour 2 trim 2	C	Frame
123	front colour 3 trim 2	C	Pilaster strips
124	front edge colour 2	C	
125	front combination trim 2	O	May contain options 120 to 124

Previously, "front combinations" 1 and 2 were only allowed to contain variants from "front colour 1 offset" to "front edge colour offset". However, this excluded the "front design offset". This has now been corrected by extending the permitted variants to 110-114 and 120-124 respectively.



8.3. C Extension of free FEATURES to 9999

Decision: 2023-10-05

4.0.1			
Feature	Feature text	Type	Remark/possible variations
[...]			
2300-2999	free defined feature		

4.1.1			
Feature	Feature text	Type	Remark/possible variations
[...]			
2300-9999	free defined feature		

The number range from 3000 to 9999 is released for free FEATURES. In addition to the defined list for FEATURES, the values from 2300 to 9999 will therefore be available as free variant types in the next version. The pattern in the FEATURE\_NO element was already at 9999.

8.4 C Correcting and adding FEATURES

Decision:

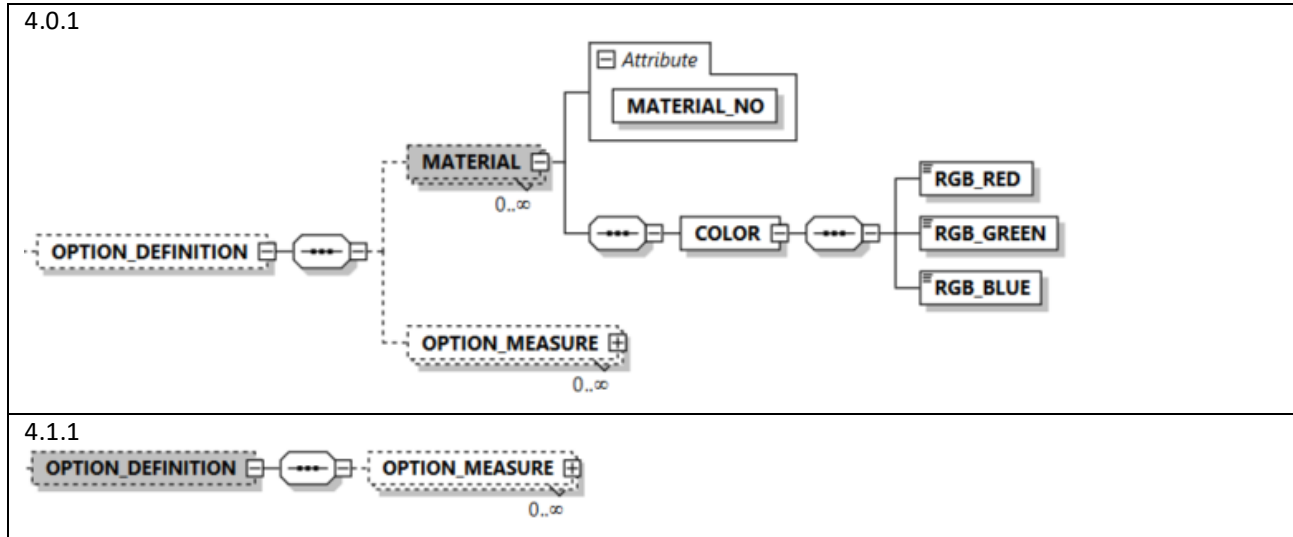
4.0.1			4.1.1		
Feature	Feature text	Type	Feature	Feature text	Type
[...]			[...]		
1021	trimmings finish	O	1021	drapery finish	O
1022	trimmings colour	C	1022	drapery colour	C
1023		O	1023	trimmings finish	O
1024		C	1024	trimmings colour	C

The FEATURES for drapery and trimmings were not clearly defined in the English documentation. This has been corrected.



## 9. Material and shape codes

9. R Deletion of the MATERIAL element under OPTION\_DEFINITION Decision: 2023-10-05

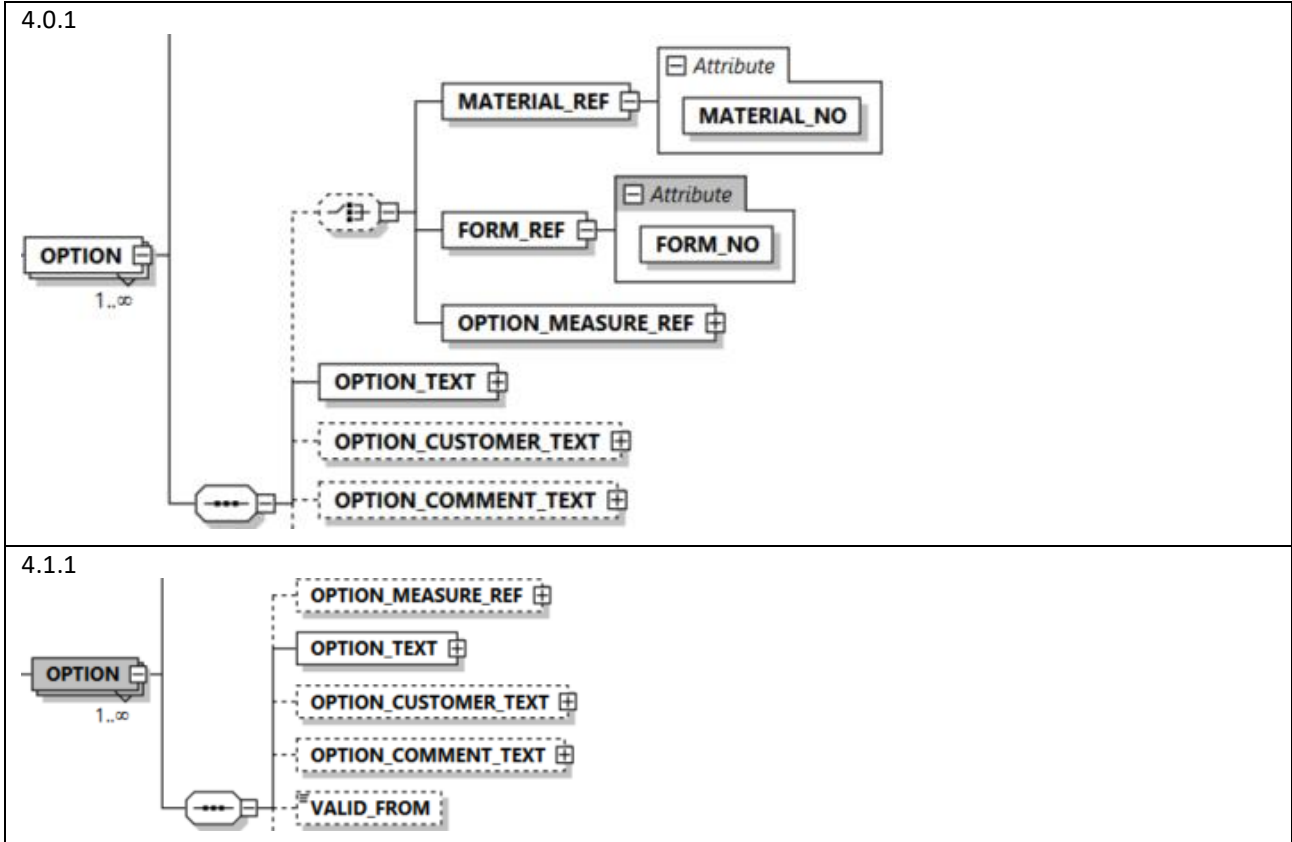


Since material and colour can be described in a standardised manner using ECLASS characteristics, the MATERIAL node under OPTION\_DEFINITION is deleted.



9.2 R Delete the MATERIAL\_REF and FORM\_REF elements under OPTION

Decision: 2023-10-05



The FORM element, which could be referenced in FORM\_REF, has always been missing, and by deleting the MATERIAL node, the MATERIAL\_REF and FORM\_REF elements can be removed. This eliminates the upstream Choice element and makes the remaining OPTION\_MEASURE\_REF element optional.

```

<xs:element name="OPTION" maxOccurs="unbounded">
  <xs:annotation>...</xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="OPTION_MEASURE_REF" minOccurs="0">
        <xs:annotation>...</xs:annotation>
        <xs:complexType>
          <xs:attribute name="OPTION_MEASURE_NO" use="required">
            <xs:annotation>...</xs:annotation>
            <xs:simpleType>
              <xs:restriction base="xs:positiveInteger">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="99999"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:attribute>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

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4.0.1



Figure 2 - The element OPTION\_DEFINITION

The OPTION\_DEFINITION element contains elements in which the respective variations are specified:

MATERIAL	This element is used to define the properties of materials using colours and textures. These elements are referenced from variation version types.
OPTION_MEASURE	This element is used to specify the values of versions that are expressed in a dimension (e.g. sitting height (variation type 35)).

Example: variations for colours

```

<OPTION_DEFINITION>
<MATERIAL>
  <COLOR COLOR_NO="1">
    <RGB_RED>255</RGB_RED>
    <RGB_GREEN>0</RGB_GREEN>
    <RGB_BLUE>0</RGB_BLUE>
  </COLOR>
  <COLOR COLOR_NO="2">
    <RGB_RED>133</RGB_RED>
    <RGB_GREEN>273</RGB_GREEN>
    <RGB_BLUE>0</RGB_BLUE>
  </COLOR>
  <COLOR COLOR_NO="3">
    <RGB_RED>0</RGB_RED>
    <RGB_GREEN>89</RGB_GREEN>
    <RGB_BLUE>89</RGB_BLUE>
  </COLOR>
</MATERIAL>
</OPTION_DEFINITION>

```

The above elements define three colours that are identified by numbers (COLOR\_NO) 1-3.

4.1.1

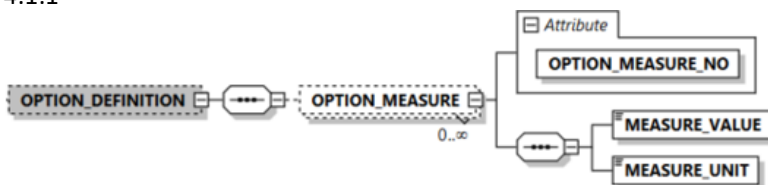


Figure 2 - The element OPTION\_DEFINITION

Measurement variants can be described in the OPTION\_DEFINITION element.

OPTION\_MEASURE:

This element stores the values of OPTIONS used to specify a measurement (e.g. backrest height, seat cushion height).

With the deletion of the MATERIAL element, the description of the OPTION-DEFINITION node in the introduction to the documentation had to be adjusted.

A = Added = Addition of new elements or attributes

C = Changed = Changes to existing elements, attributes or descriptive texts

R = Removed = Deletion of elements or attributes

F = Fixed = Error corrections to existing elements, attributes or descriptive texts



## 10. Replacement of free text options

10. C Changed description in the OPTION element

Decision: 2025-06-24

### 4.0.1

This element is used to define the versions for the superordinate version type. All versions necessary in the data pool are stored here. If the version to be created is a variation version (introduction: table version types identified by type A), no colour values must be specified.

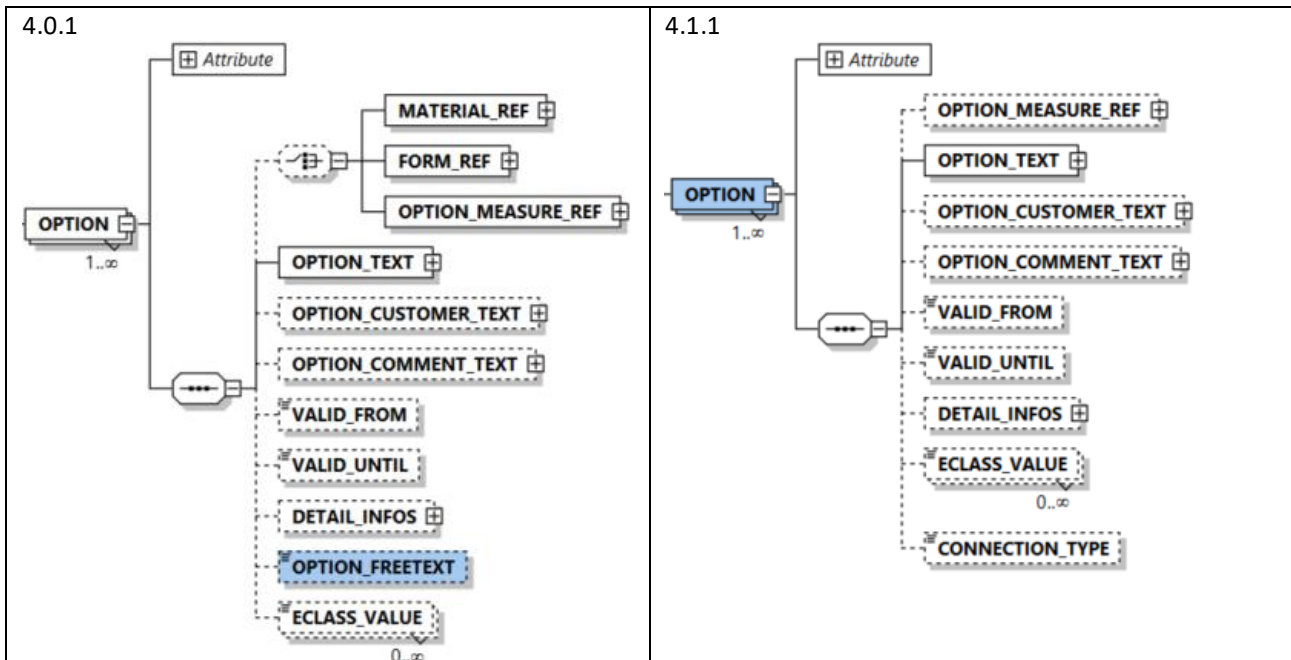
### 4.1.1

This element is used to define the OPTIONS (versions) for the superordinate FEATURE (version type). All OPTIONS (versions) necessary in the data pool are stored here. If the OPTION (version) to be created is a variation version (introduction: table version types identified by type A), no colour values must be specified.

An OPTION value for special colors, e.g. according to SIKKENS, NCS, or RAL, should refer to a separate free FEATURE in which all possible values of the corresponding color scale are created.

For the sale of white upholstered models, external fabrics are referenced using additional OPTIONS activated, for example, by an action, such as "External fabric 1," "External fabric 2," etc., depending on how many different fabrics are possible for the model, in the respective cover fabric FEATURE (e.g., 1006 Back cover type). This makes it clear which of the fabrics submitted by the retailer/customer belongs to which upholstery element.

In order to replace the OPTION\_FREETEXT element, the applications previously used for this purpose must be covered by regular OPTION. The handling of special colours and external covers is therefore supplemented in the description of the OPTION element.

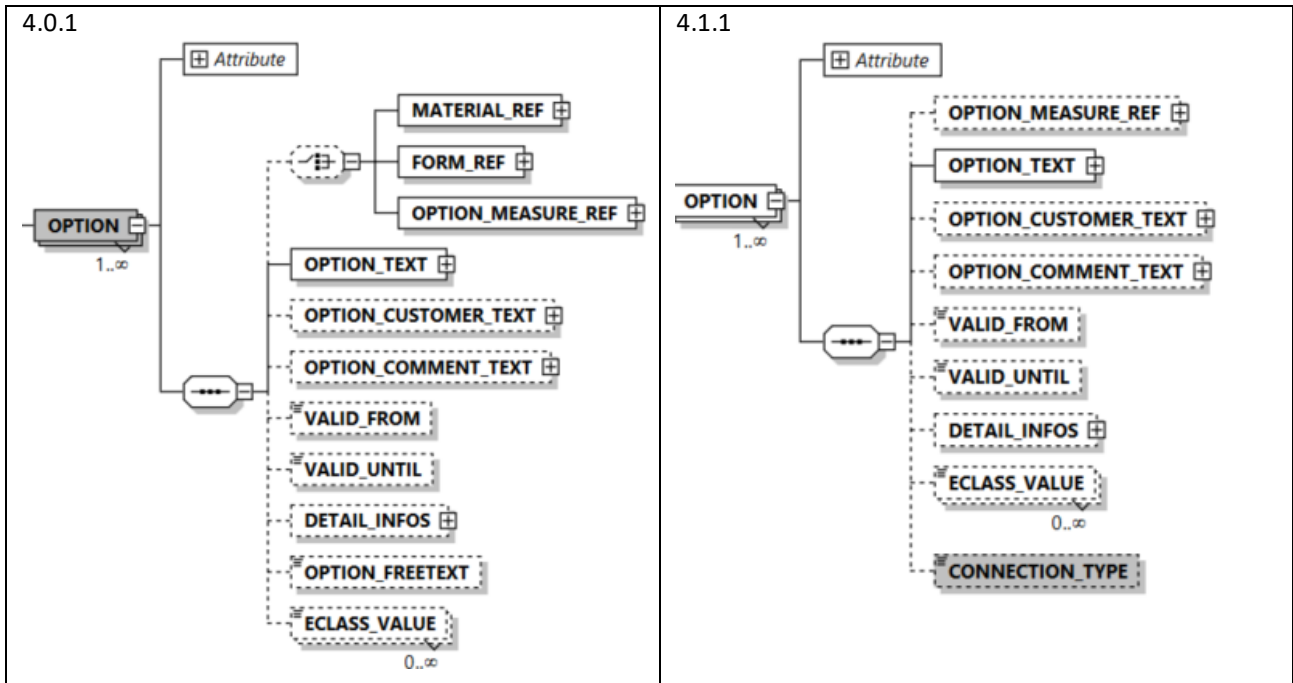


The OPTION\_FREETEXT element, which hindered automated order processing, is no longer applicable.



## 11. Positioning vectors

11. A New element CONNECTION\_TYPE under OPTION Decision: 2024-06-20



To enable configurations with optional connection points that remain open, the optional element CONNECTION\_TYPE is added under OPTION. This has the data type boolean and the default value 0.

```
<xs:element name="CONNECTION_TYPE" type="xs:boolean" default="0" minOccurs="0">
  <xs:annotation>...</xs:annotation>
</xs:element>
```

### Description in the documentation:

This element is used to distinguish between mandatory and optional connection vectors.

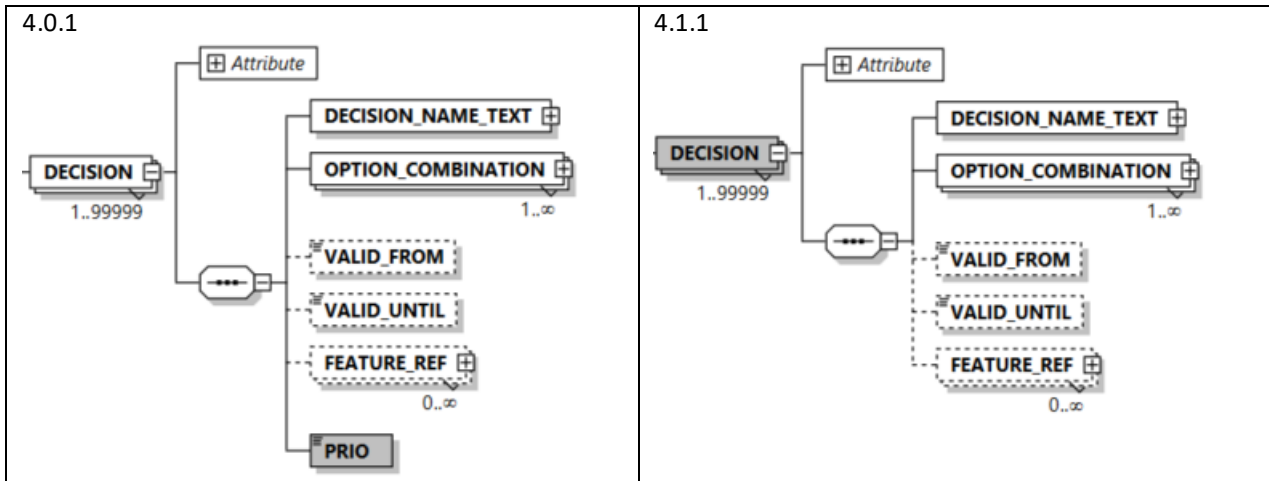
0 = the connection vector must be linked to (default value)

1 = the connection vector can be linked to optionally, but it can also remain free for a valid configuration



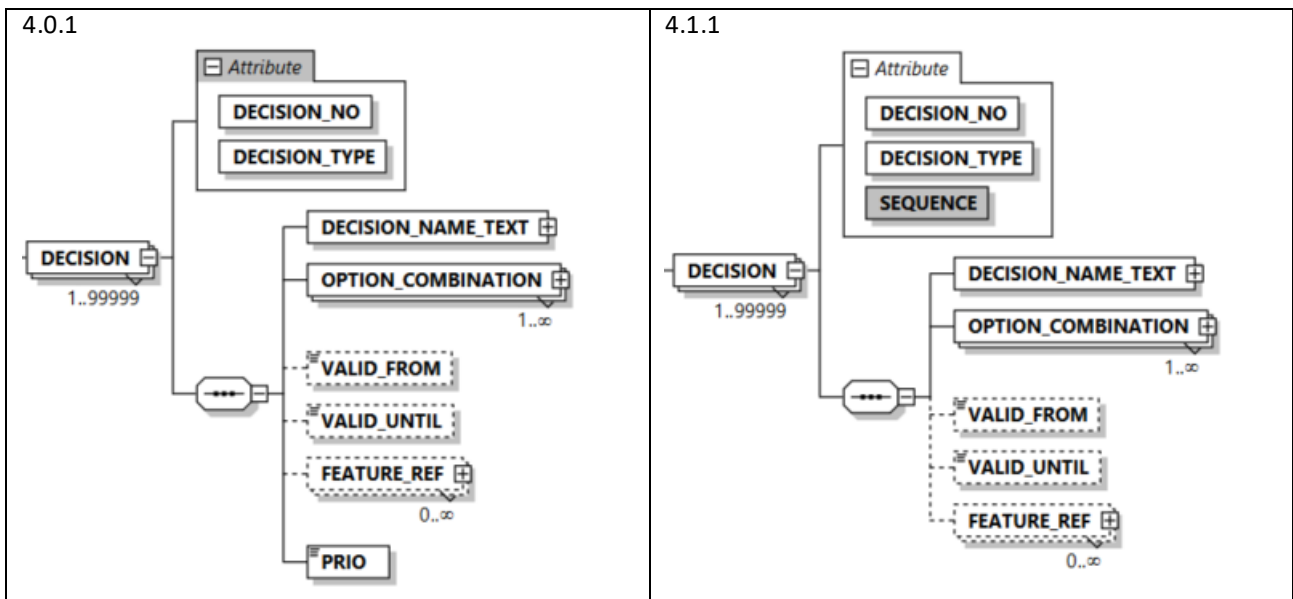
## 12. Order of DECISIONS

12.1. R Deletion of the PRIO element under DECISION Decision: 2024-06-20



Due to the contradictory interpretation of the PRIO element with regard to the order in which DECISIONS are evaluated by the configurators, it is being removed and replaced by the SEQUENCE\_NO attribute (see 1.2.2.).

12.2 A New attribute SEQUENCE\_NO under DECISION Decision: 2024-06-20



The new attribute SEQUENCE under DECISION specifies the order in which DECISIONS are to be evaluated, thereby replacing the old element PRIO.



Description in the documentation:

This attribute determines the order in which DECISIONS (rules) are to be evaluated. They are evaluated in ascending order from the smallest SEQUENCE to the largest.

```
<xs:attribute name="SEQUENCE" type="xs:positiveInteger" use="required">
  | <xs:annotation>...</xs:annotation>
</xs:attribute>
```

12.3. C Changed description in the SET\_FEATURE\_FIXED element Decision: 2024-06-20

<p>4.0.1 This action is used to set versions.</p> <p>The following options are available for the setting of versions:</p> <ul style="list-style-type: none"> <li>- Direct, e.g. main fabric = "blue" (OPTION)</li> <li>- the setting of version values from another version type (FEATURE), e.g. ledge fabric = main fabric</li> <li>- the calculation of versions (e.g. sitting height + 5 cm). This function is only available for dimension versions and takes place via a formula string that may contain parameters and values. This requires the version type (e.g. sitting height) to be assigned with a parameter (e.g. "sh"). The measure parameter (MEASURE_PARAMETER) can be supplemented with a unit (MEASURE_UNIT). The formula (FORMULA_STRING) therefore only contains the parameters (e.g. planning width = 2 * st + sb, which means that the planning width results from the sitting width + 2 times the side element width.</li> </ul>
<p>4.1.1 This ACTIONS is used to set OPTIONS (versions). <b>These cannot be overwritten by subsequent DECISIONS (rules).</b></p> <p>The following options are available for the setting of OPTIONS (versions):</p> <ul style="list-style-type: none"> <li>- Direct, e.g. main fabric = "blue" (OPTION)</li> <li>- the setting of version values from another FEATURE (version type) e.g. ledge fabric = main fabric</li> <li>- the calculation of OPTIONS (versions) (e.g. sitting height + 5 cm). This function is only available for dimension versions and takes place via a formula string that may contain parameters and values. This requires the version type (e.g. sitting height) to be assigned with a parameter (e.g. "sh"). The measure parameter (MEASURE_PARAMETER) can be supplemented with a unit (MEASURE_UNIT). The formula (FORMULA_STRING) therefore only contains the parameters (e.g. planning width = 2 * st + sb, which means that the planning width results from the sitting width + 2 times the side element width.</li> </ul>

The description has been supplemented to clarify the effects of the order of DECISIONS in the ACTIONS.



### 12.4. C Changed description in the ENABLE\_DECISION element

Decision: 2024-06-20

#### 4.0.1

This action activates rules.

#### 4.1.1

This action can be used to activate the following DECISIONS (rules).

The description has been supplemented to clarify the effects of the order of DECISIONS in the ACTIONS.

### 12.5. C Changed description in the DISABLE\_DECISION element

Decision: 2024-06-20

#### 4.0.1

This action deactivates rules.

#### 4.1.1

This action can be used to deactivate the following DECISIONS (rules).

The description has been supplemented to clarify the effects of the order of DECISIONS in the ACTIONS.



## 13. FORMULAS

13. C Changed description in the FORMULAS element

Decision: 2024-06-20

4.0.1

This element is used for the calculation of versions (e.g. sitting height + 5 cm). The function is however only permitted for dimensional versions with a version type that contains the value "M", the unit of measure can be entered in MEASURE\_UNIT, the parameter (e.g. sh for sitting height) in MEASURE\_PARAMETER. The calculation is carried out via a formula string that may contain parameters and values.

4.1.1

This element is used for the calculation of OPTIONS (versions) (e.g. sitting height + 5 cm). The function is however only permitted for dimensional versions with a FEATURE (version type) that contains the value "M", the unit of measure can be entered in MEASURE\_UNIT, the parameter (e.g. sh for sitting height) in MEASURE\_PARAMETER. The calculation is carried out via a formula string that may contain parameters and values. **Only mathematical operators (+, -, \*, /) may be used. The rule of precedence applies.**

To prevent other formulas or regular expressions from being stored here in addition to mathematical formulas, the description in the FORMULAS element has been specified in more detail.

13.2. F Corrected description in the FORMULA element

Decision: 2025-06-24

4.0.1

4.1.1

The element is used to define a formula. The attribute FORMULA\_KEY contains the identifier, the FORMULA\_STRING contains the actual formula.

A transfer error apparently occurred during an earlier version change, resulting in the English description being empty. This has now been corrected.



## 14. PRICE TYPES

14.1. C Changed description in the PRICE\_TYPES element

Decision: 2025-07-21

4.0.1

[...]

If "1" is set for a dimension, the price calculation will be based on this dimension (e.g. fabrics).

If exactly two dimensions are set to "1", the price is based on the surface area (e.g. carpets).

If exactly three dimensions are set to "1", the price is based on the volume (e.g. lounge sections).

4.1.1

[...]

If "1" is set for **one** dimension, the price calculation will be based on this dimension (e.g. fabrics).

If exactly two dimensions are set to "1", the price is based on the surface area (e.g. carpets). **If no formula is specified, both dimensions are multiplied. (mm<sup>2</sup>)**

If exactly three dimensions are set to "1", the price is based on the volume (e.g. lounge sections). **If no formula is specified, the three dimensions are multiplied. (mm<sup>3</sup>)**

As it was not previously clear that the dimensions are multiplied even without a formula being specified for area- or volume-dependent price calculations, this has been added to the description of the PRICE\_TYPES element.

14.2. C Changed description in the PRICE\_TYPE\_FORMULA element

Decision: 2025-07-21

4.0.1

Price calculation formulas can be specified when defining price types (PRICE\_TYPE). **Formulas must not be specified** for standard price types, such as a calculation **that relies** squares or cubic metres.

The following rules apply for the definition of price type formulas:

- the parameters w, h and d can be used in formulas. **Parameters w, h, d correspond to the parameters w, h and d of the carcass basic shape.** Depending on the w, h, d parameters used, the corresponding element WIDTH\_X (P1) (w), DEPTH\_Y (P1) (d) or HEIGHT\_Z (P1) (h) must be set to "true".

- the basic calculation methods addition (+), subtraction (-), multiplication (\*) and division (/) can be used;

[...]

4.1.1

Price calculation formulas can be specified when defining price types (PRICE\_TYPE). **No formula needs to be created** for standard price types such as calculation **based solely on** square or cubic meters.

The following rules apply for the definition of price type formulas:

- the parameters w, h and d can be used in formulas. Depending on the w, h, d parameters used, the corresponding element WIDTH\_X (P1) (w), DEPTH\_Y (P1) (d) or HEIGHT\_Z (P1) (h) must be set to "true".

- the basic calculation methods addition (+), subtraction (-), multiplication (\*) and division (/) can be used;

[...]

The restrictive wording that no formulas may be stored for area and volume calculations has been relaxed. The reference to the basic body shapes, which are no longer available in the Living Format, has been removed.



## 15. Synchronisation from 2D to 3D in the IDM media documentation

15.1. C Changed description of basic information on SVG

Decision: 2024-06-20

3.0.0

### **2.2. Basic information on the SVG**

- Total object is displayed starting from x in interval 0-1 and y in interval 0-1
- [...]
- Orientation on the screen when creating the graphics:
  - Back part on top
  - Front part of seat below
  - Corners on top and left side back part

4.1.1

### **2.3. Basic information on the SVG**

- Total object is displayed starting from x in interval 0-1 and y in interval 0-1
- [...]
- Orientation on the screen when creating the graphics:
  - Back part on top
  - Front part of seat below
  - Corners on top and left side back part
- The following must be observed for synchronisation from 2D to 3D:
  - A line thickness of 0 is assumed for calculation and scaling
  - The 0 point of the 3D graphic is derived from the upper left corner of the OLT of an SVG
  - The dimensions of the item must be identical to the OLT on a scale of 1:10

The relevant points to be observed for error-free synchronisation from 2D to 3D when drawing SVG files have been added to the IDM media documentation. The documentation has been given the version number 4.1.1, in line with the IDM Living version.



## 16. Changes to terminology

16.1. A Glossary of old terms and their element names Decision: 2023-10-05

<p>4.0.1</p> <ul style="list-style-type: none"> <li>Introduction             <ul style="list-style-type: none"> <li>Basic structure of the IDM schema</li> <li>Elements of the catalogue structure</li> <li>Arranging the catalogue structure</li> <li>Catalogue structure</li> <li>Referencing</li> <li>Assessment procedure</li> <li>Data types</li> <li>Notes to the documentation</li> <li>Version types</li> <li>Model code</li> <li>Model code types</li> <li>Variation code</li> <li>Information key</li> <li>Language key</li> <li>Country code</li> <li>Types of detailed information</li> </ul> </li> </ul>	<p>4.1.1</p> <div style="border: 2px solid red; padding: 5px;"> <ul style="list-style-type: none"> <li>Einleitung             <ul style="list-style-type: none"> <li>Grundstruktur des IDM-Schemas</li> <li>Elemente der Katalogstruktur</li> <li>Aufbauen der Katalogstruktur</li> <li>Katalogstruktur</li> <li>Referenzierung</li> <li>DECISIONS (Prüfverfahren)</li> <li>Datentypen</li> <li>Erläuterungen zur Dokumentation</li> <li>FEATURES (Variantenarten)</li> <li>TK_TYPE (Typenschlüssel)</li> <li>TK_CLASS (Typenschlüssel- Arten)</li> <li>TK_INFO (Ausführungsschlüssel)</li> <li>ISO_LANGUAGE_ID (Sprachenschlüssel)</li> <li>ISO_COUNTRY_ID (Länderschlüssel)</li> <li>INFO_TYPE (Typen für Detailinformation)</li> <li>Glossar</li> </ul> </li> </ul> </div>
---	---

In addition to replacing the terms, with the previous designation remaining temporarily in brackets after them, a glossary will also be added at the end of the introduction in the documentation.

### Glossary



IDML 4.1.0 XML schema documentation

Introduction > Glossary

Element/Attribute	Previous name in documentation
DECISIONS	Assessment procedure / Rules
FEATURE_CLASS	Version family
FEATURES	Version types
OPTION_GROUPS	Version group
OPTIONS	Versions
TK_TYPE	Model code
TK_CLASS	Model code type
TK_INFO	Variation code
ISO_LANGUAGE_ID	Language key
ISO_COUNTRY_ID	Country code
INFO_TYPE	Types of detailed information

A = Added = Addition of new elements or attributes

C = Changed = Changes to existing elements, attributes or descriptive texts

R = Removed = Deletion of elements or attributes

F = Fixed = Error corrections to existing elements, attributes or descriptive texts



Test procedure:

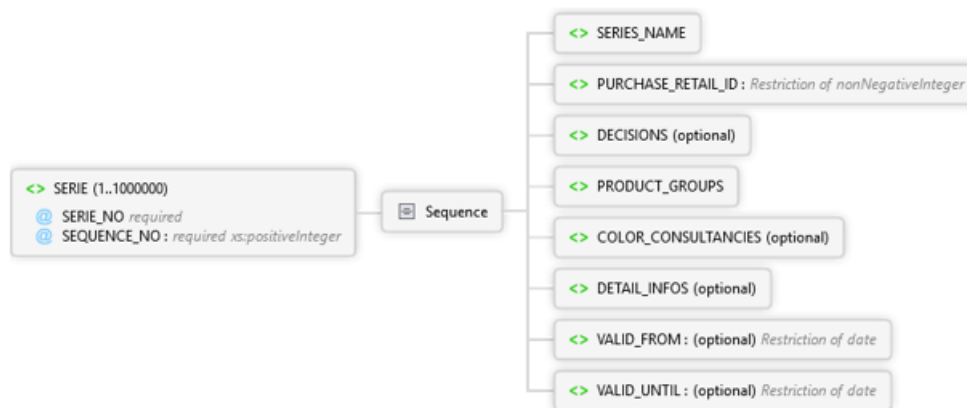
Introduction > Elements of the catalogue structure

4.0.1

**Creating series information**

Series are defined in the following element:

T\_NEW\_CATALOG/SERIES/SERIE



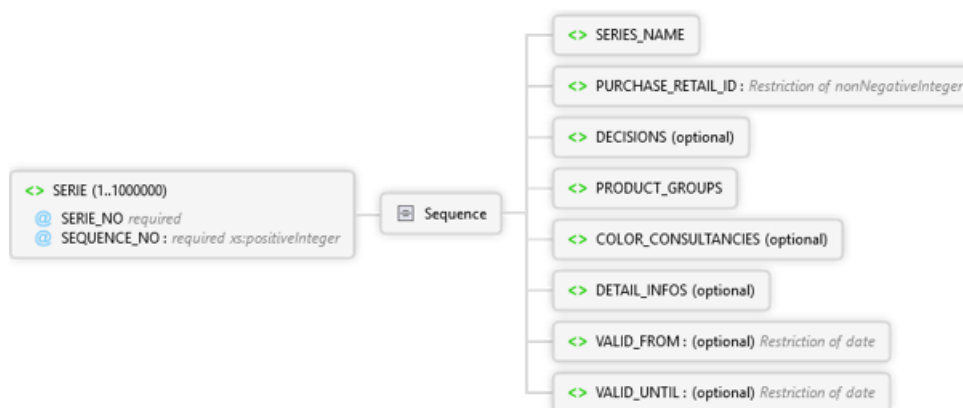
All child elements are used to describe the properties of the series Versions are assigned to series via assessment procedures (RESTRICTION\_REF).

4.1.1

**Creating series information**

Series are defined in the following element:

T\_NEW\_CATALOG/SERIES/SERIE



All child elements are used to describe the properties of the series Versions are assigned to series via **DECISION (assessment procedures)**.



Introduction > DECISION (test procedure)

4.0.1

## Assessment procedure



IDM

IDML 4.0.1 XML schema documentation

Introduction > Assessment procedure

### Definition and assignment of rules

The earlier assessments (RESTRICTIONS) are now fully replaced by rules (DECISIONS).

The rules/assessment procedures are assigned to series or items by references from the corresponding elements. In total, all assessment procedures defined in this element must be referenced from either series or items.

Rules that are referenced by items take priority over rules referenced by series.

4.1.1

## DECISIONS (Assessment procedure)



IDM

IDML 4.1.0 XML schema documentation

Introduction > DECISIONS (Assessment procedure)

### Definition and assignment of DECISIONS (rules)

The earlier assessments (RESTRICTIONS) are now fully replaced by rules (DECISIONS).

The DECISIONS (rules/assessment procedures) are assigned to series or items by references from the corresponding elements. In total, all DECISIONS (assessment procedures) defined in this element must be referenced from either series or items.

DECISIONS (Rules) that are referenced by items take priority over DECISIONS (rules) referenced by series.



## Introduction > INFO\_TYPE (types for detailed information)

### 4.0.1

The following info types can be used to describe the type of detail information:

- 1 = Milieu photo
- 2 = Item pictogram (type/item overview)
- 3 = Magnetic planner drawing (SVGs in top view)
- 4 = Variant photo
- 5 = Variant texture
- 6 = Manufacturer logo/product brand
- 7 = Colour consultancy (the versions are defined in an assessment procedure)
- 8 = Material passport (PDF)
- 9 = Model description sheets (PDF below series)
- 10 = Installation instructions
- 11 = Marketing
- 12 = Miscellaneous
- 13 = Colour consultancy wall
- 14 = Colour consultancy floor
- 15 = Description of function
- 16 = Planning advice
- 17 = Catalogue image

### 4.1.1

The following info types can be used to describe the type of detail information:

- 1 = Milieu photo
- 2 = Item pictogram (type/item overview)
- 3 = Magnetic planner drawing (SVGs in top view)
- 4 = OPTION (Variant) photo
- 5 = OPTION (Variant) texture
- 6 = Manufacturer logo/product brand
- 7 = Colour consultancy (the OPTIONS (versions) are defined in a DECISION (assessment procedure))
- 8 = Material passport (PDF)
- 9 = Model description sheets (PDF below series)
- 10 = Installation instructions
- 11 = Marketing
- 12 = Miscellaneous
- 13 = Colour consultancy wall
- 14 = Colour consultancy floor
- 15 = Description of function
- 16 = Planning advice
- 17 = Catalogue image

A = Added = Addition of new elements or attributes

C = Changed = Changes to existing elements, attributes or descriptive texts

R = Removed = Deletion of elements or attributes

F = Fixed = Error corrections to existing elements, attributes or descriptive texts



SEQUENCE under OPTION\_COMBINATION:

4.0.1 This element is used to specify the sequence in which the assigned assessment procedures will be executed.
4.1.1 This element is used to specify the sequence in which the assigned <b>DECISIONS (assessment procedures)</b> will be executed.

Rules:

Introduction > Building the catalogue structure

<p>4.0.1 <b>Artikel, Serien und Varianten zuordnen</b></p> <p>Artikel-Serien Zuordnung</p> <p>Artikel werden Serien automatisch zugeordnet, da das Element ITEM ein Kind-Element des Elementes SERIES ist:</p> <p>SERIES/SERIE/PRODUCT_GROUPS/PRODUCT_GROUP/ITEMS/ITEM</p> <p>Es können Artikelspezifisch <b>Regeln</b> über SERIES/SERIE/PRODUCT_GROUPS/PRODUCT_GROUP/ITEMS/ITEM/DECISIONS/DECISIONS_REF formuliert werden.</p>
<p>4.1.1 <b>Artikel, Serien und Varianten zuordnen</b></p> <p>Artikel-Serien Zuordnung</p> <p>Artikel werden Serien automatisch zugeordnet, da das Element ITEM ein Kind-Element des Elementes SERIES ist:</p> <p>SERIES/SERIE/PRODUCT_GROUPS/PRODUCT_GROUP/ITEMS/ITEM</p> <p>Es können Artikelspezifisch <b>DECISIONS (Regeln)</b> über SERIES/SERIE/PRODUCT_GROUPS/PRODUCT_GROUP/ITEMS/ITEM/DECISIONS/DECISIONS_REF formuliert werden.</p>

DECISIONS under SERIE:

4.0.1 This element is used to collect series specific rules.
4.1.1 This element is used to collect series specific <b>DECISIONS (rules).</b>



DECISIONS under ITEM:

4.0.1	This element is used to combine product item-specific rules.
4.1.1	This element is used to combine product item-specific <b>DECISIONS (rules)</b> .

Introduction > DECISION (test procedure)

4.0.1	This allows for the definition of valid versions in OPTION_COMBINATION. These are used to determine the valid versions of a version type. These rules do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the version types (FEATURES) as column headings; the cell contents of this table are values, lists, intervals, version groups that are linked by quantity operators.
4.1.1	This allows for the definition of valid versions in OPTION_COMBINATION. These are used to determine the valid versions of a version type. These <b>DECISIONS (rules)</b> do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the version types (FEATURES) as column headings; the cell contents of this table are values, lists, intervals, version groups that are linked by quantity operators.

Introduction > Data types

4.0.1	<table border="1"> <tr> <td>operator</td> <td> <p>This data type is used for rules in the IDMP. This simple, self-defined data type defines an operator for comparisons. The comparison operator is a string of 1 to 4 characters length and may contain the following values:</p> <p>eg (equal) ne (not equal) in (is contained in a quantity)</p> </td> </tr> </table>	operator	<p>This data type is used for rules in the IDMP. This simple, self-defined data type defines an operator for comparisons. The comparison operator is a string of 1 to 4 characters length and may contain the following values:</p> <p>eg (equal) ne (not equal) in (is contained in a quantity)</p>
operator	<p>This data type is used for rules in the IDMP. This simple, self-defined data type defines an operator for comparisons. The comparison operator is a string of 1 to 4 characters length and may contain the following values:</p> <p>eg (equal) ne (not equal) in (is contained in a quantity)</p>		
4.1.1	<table border="1"> <tr> <td>operator</td> <td> <p>This data type is used for <b>DECISIONS (rules)</b> in the IDML. This simple, self-defined data type defines an operator for comparisons. The comparison operator is a string of 1 to 4 characters length and may contain the following values:</p> <p>eg (equal) ne (not equal) in (is contained in a quantity)</p> </td> </tr> </table>	operator	<p>This data type is used for <b>DECISIONS (rules)</b> in the IDML. This simple, self-defined data type defines an operator for comparisons. The comparison operator is a string of 1 to 4 characters length and may contain the following values:</p> <p>eg (equal) ne (not equal) in (is contained in a quantity)</p>
operator	<p>This data type is used for <b>DECISIONS (rules)</b> in the IDML. This simple, self-defined data type defines an operator for comparisons. The comparison operator is a string of 1 to 4 characters length and may contain the following values:</p> <p>eg (equal) ne (not equal) in (is contained in a quantity)</p>		



PART\_LIST\_REF under ITEM:

#### 4.0.1

This element references a parts list contained in an item.

The item passes on its versions (OPTIONS) to the sub positions if these have identical version types (FEATURES) in the version family associated with the respective sub-position.

The sub-positions can have rules that determine whether a sub-position is displayed. The sub-position is then specified with the corresponding piece quantity.

Items that are only permitted as sub-positions are marked separately (element PARTS\_LIST\_EXCLUSIVE).

If the item is a catalogue item (ITEM\_IDENTIFICATION 'K'), parts may be assigned to the item. The total price of the catalogue item results from the price assigned to it and the prices of the components from the piece list.

The following applies for the planning proposal (ITEM\_IDENTIFICATION '1'):

The individual items in the parts list can accept the default values.

There must not be any sub-positions that are only sub-positions and that cannot be ordered individually.

Only the resulting items are ordered. The composition itself never shows in the order forms.

The positions are eliminated and versions passed down in the planning.

The individual positions must then be positioned in the magnet planner in their order from left-to-right.

Planning suggestions may contain preferred combinations.

The following rules apply to preferred combinations (ITEM\_IDENTIFICATION '2'):

It must not contain a planning suggestion.

If a preferred combination is eliminated (e.g. by deleting a sub-position), the individual prices are newly determined for the individual positions, and the price advantage no longer applies.

The pricing then takes place exclusively on main position level.

#### 4.1.1

This element references a parts list contained in an item.

The item passes on its **OPTIONS (versions)** to the sub positions if these have identical **FEATURES (version types)** in the **FEATURE\_CLASS (version family)** associated with the respective sub-position.

The sub-positions can have **DECISIONS (rules)** that determine whether a sub-position is displayed. The sub-position is then specified with the corresponding piece quantity.

Items that are only permitted as sub-positions are marked separately (element PARTS\_LIST\_EXCLUSIVE).

If the item is a catalogue item (ITEM\_IDENTIFICATION 'K'), parts may be assigned to the item. The total price of the catalogue item results from the price assigned to it and the prices of the components from the piece list.

The following applies for the planning proposal (ITEM\_IDENTIFICATION '1'):

The individual items in the parts list can accept the default values.

There must not be any sub-positions that are only sub-positions and that cannot be ordered individually.

Only the resulting items are ordered. The composition itself never shows in the order forms.

The positions are eliminated and **OPTIONS (versions)** passed down in the planning.

The individual positions must then be positioned in the magnet planner in their order from left-to-right.

Planning suggestions may contain preferred combinations.

The following rules apply to preferred combinations (ITEM\_IDENTIFICATION '2'):

It must not contain a planning suggestion.

If a preferred combination is eliminated (e.g. by deleting a sub-position), the individual prices are newly determined for the individual positions, and the price advantage no longer applies.

The pricing then takes place exclusively on main position level.

### PACKAGE\_LIST:

<p><b>4.0.1</b> This element is used to specify the packages per item. No package optimisation based on purchase transactions is possible. Width, depth, height must be indicated in whole numbers in mm per package. The weight must be indicated in decimal form in kg. The packages can be rule-based, i.e. dependent on variants, e.g. if drawers or mirrors are added as a variant, this also means a new package. The expression of a variant for a new package should only be used for simple cases. This means that each element of the list of packages can also reference rules.</p>
<p><b>4.1.1</b> This element is used to specify the packages per item. No package optimisation based on purchase transactions is possible. Width, depth, height must be indicated in whole numbers in mm per package. The weight must be indicated in decimal form in kg. The packages can be dependent on <b>OPTIONS (variants)</b> and therefore also on <b>DECISIONS (rules)</b>, e.g. if drawers or mirrors are added as a variant, this also means a new package. The expression of a variant for a new package should only be used for simple cases. This means that each element of the list of packages can also reference <b>DECISIONS (rules)</b>.</p>

### DECISIONS under PACKAGE\_LIST\_POS:

<p><b>4.0.1</b> The packages can be rule-based, i.e. dependent on features, e.g. if drawers or mirrors are added as a option, this also means a new package. The expression of a feature for a new package should only be used for simple cases. This means that each element of the list of packages can also reference rules.  This element is used to reference rules.</p>
<p><b>4.1.1</b> The packages can be dependent on <b>OPTIONS (variants)</b> and therefore also on <b>DECISIONS (rules)</b>, e.g. if drawers or mirrors are added as a variant, this also means a new package. The expression of a variant for a new package should only be used for simple cases. This means that each element of the list of packages can also reference <b>DECISIONS (rules)</b>.  This element is used to reference <b>DECISION (rules)</b>.</p>

### DECISIONS under PRODUCT\_GROUP:

<p><b>4.0.1</b> This element is used to combine product group-specific rules.</p>
<p><b>4.1.1</b> This element is used to combine product group-specific DECISION (rules).</p>

### COLOUR\_CONSULTANCY:

4.0.1	This element is used to directly assign image layers to rules.
4.1.1	This element is used to directly assign image layers to <b>DECISIONS (rules)</b> .

### DECISIONS under SERIES:

4.0.1	This element is used to collect cross-series rules.
4.1.1	This element is used to collect cross-series <b>DECISIONS (rules)</b> .

### PART\_LISTS:

4.0.1	This element is used to assemble dynamic parts lists, with the sub-positions assigned to rules that determine depending on the version in which quantity the respective position exists in the parts list. Only items in a corresponding series or items of series 0 are contained. A contained item may however contain a parts list. The item that contains a parts list passes on its versions (OPTIONS) to the sub positions if these have identical version types (FEATURES) in the version family associated with the respective sub-position.
4.1.1	This element is used to assemble dynamic parts lists, with the sub-positions assigned to <b>DECISIONS (rules)</b> that determine depending on the version in which quantity the respective position exists in the parts list. Only items in a corresponding series or items of series 0 are contained. A contained item may however contain a parts list. The item that contains a parts list passes on its <b>OPTIONS (versions)</b> to the sub positions if these have identical <b>FEATURES (version types)</b> in the <b>FEATURE_CLASS (version family)</b> associated with the respective sub-position.

### DECISIONS under PART\_LIST\_POS:

4.0.1	The rules for the corresponding parts list position are collected in this element. It thereby influences the versions and dimensions available for this position. A rule with a quantity factor must not be specified here. This rule is referenced via DECISION_POS_COUNT.
4.1.1	The <b>DECISIONS (rules)</b> for the corresponding parts list position are collected in this element. It thereby influences the <b>OPTIONS (versions)</b> and dimensions available for this position. A <b>DECISION (rule)</b> with a quantity factor must not be specified here. This <b>DECISION (rule)</b> is referenced via DECISION_POS_COUNT.



FEATURE\_CLASSES:

4.0.1

This element is used to combine version types in families. These version families can be used to carry out plausibility and completeness checks with respect to the valid version types.

The defined version families (path 1) can be assigned to series or product groups via FEATURE\_CLASS\_REF in SERIE and PRODUCT\_GROUP. There is no relationship with respect to a priority between version families on series and item level. The number of version types that are valid for an item results from the total number of version types declared in the items product group.

All version types that are referenced via the elements in PRICE\_FEATURE\_GROUP (path 3), PRICE\_FEATURE\_BASE\_PRICE\_GROUP\_REF (path 4), FINISH (path 5) and PERCENTAGE\_SURCHARGE (path 5) must be contained in the version family of the item.

The version types used via the rules ( elements DECISION\_REF (path 6, 7 and 8)) must also be contained in the item's version family.

[...]

4.1.1

This element is used to combine **FEATURES (version types)** in families. These **FEATURE\_CLASSES (version families)** can be used to carry out plausibility and completeness checks with respect to the valid **FEATURES (version types)**.

The defined **FEATURE\_CLASSES (version families)** (path 1) can be assigned to series or product groups via FEATURE\_CLASS\_REF in SERIE and PRODUCT\_GROUP. There is no relationship with respect to a priority between **FEATURE\_CLASSES (version families)** on series and item level. The number of **FEATURES (version types)** that are valid for an item results from the total number of **FEATURES (version types)** declared in the items product group.

All **FEATURES (version types)** that are referenced via the elements in PRICE\_FEATURE\_GROUP (path 3), PRICE\_FEATURE\_BASE\_PRICE\_GROUP\_REF (path 4), FINISH (path 5) and PERCENTAGE\_SURCHARGE (path 5) must be contained in the **FEATURE\_CLASS (version family)** of the item.

The **FEATURES (version types)** used via the **DECISIONS (rules)** ( elements DECISION\_REF (path 6, 7 and 8)) must also be contained in the item's **FEATURE\_CLASS (version family)**.

[...]

MEASURE under FEATURE\_TYPE:

4.0.1

If the versions assigned to the version type are dimensional versions, the dimensional information is entered in this element.

They consist of a dimensional parameter, the unit of measure and can then, for example, be used in the formulas of the rules (DECISIONS).

4.1.1

If the **OPTIONS (versions)** assigned to the **FEATURE (version type)** are dimensional versions, the dimensional information is entered in this element.

They consist of a dimensional parameter, the unit of measure and can then, for example, be used in the formulas of the **DECISIONS (rules)**.

DECISIONS under FEATURE\_DEFINITION:

### 4.0.1

This element is used to specify rules for versions and version types.

### 4.1.1

This element is used to specify **DECISIONS (rules)** for **OPTIONS (versions)** and **FEATURES (version types)**.

DECISION UNDER FEATURE\_DEFINITION:

### 4.0.1

This element is used to define and describe a rule that maps technically feasible configurations.

The rules are assigned to series or items by references from the corresponding elements. In total, all rules defined in this element must be referenced from either series or items.

Depending on the DECISION\_TYPE attribute, different rules can be specified.

If the value in DECISION\_TYPE is 0 or 1, the rule is a "preparation rule".

This allows for the definition of invalid and/or valid versions in OPTION\_COMBINATION. These are used to determine the valid versions of a version type. These rules do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the version types (FEATURES) as column headings; the cell contents of this table are values, lists, intervals, version groups that are linked by quantity operators.

[...]

If all conditions within an „OPTION\_COMBINATION“ are satisfied, all signed actions (ACTIONS) then can set values or make version types (FEATURES) invisible depending on conditions. If an OPTION\_COMBINATION is satisfied, the other conditions are not processed.

#### Actions (ACTIONS)

are instructions that are executed if a condition is met. The following actions can be executed:

The setting of versions (SET\_FEATURE\_FIXED) with the following options:

Direct, e.g. main fabric = "blue" (OPTION)

the setting of version values from another version type (FEATURE), e.g. ledge fabric = main fabric

the calculation of versions (e.g. sitting height + 5 cm).

This function is only available for dimension versions and takes place via a formula string that may contain parameters and values.

This requires the version type (e.g. sitting height) to be assigned with a parameter (e.g. "sh").

[...]

The visibility of version types (SET\_FEATURE\_VISIBLE, SET\_FEATURE\_INVISIBLE) and disabling of rules (DISABLE\_DECISION, ENABLE\_DECISION):

[...]

### 4.1.1

This element is used to define and describe a **DECISION (rule)** that maps technically feasible configurations.

The **DECISIONS (rules)** are assigned to series or items by references from the corresponding elements. In total, all **DECISIONS (rules)** defined in this element must be referenced from either series or items.

Depending on the DECISION\_TYPE attribute, different **DECISIONS (rules)** can be specified.

If the value in DECISION\_TYPE is 0 or 1, the rule is a "preparation rule".



This allows for the definition of invalid and/or valid **OPTIONS (versions)** in **OPTION\_COMBINATION**. These are used to determine the valid **OPTIONS (versions)** of a **FEATURE (version type)**. These **DECISIONS (rules)** do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the **FEATURES (version types)** as column headings; the cell contents of this table are values, lists, intervals, **OPTION\_GROUPS (version groups)** that are linked by quantity operators.

[...]

If all conditions within an „**OPTION\_COMBINATION**“ are satisfied, all signed **ACTIONS** then can set values or make **FEATURES (version types)** invisible depending on conditions. If an **OPTION\_COMBINATION** is satisfied, the other conditions are not processed.

**ACTIONS** are instructions that are executed if a condition is met. The following actions can be executed:

The setting of **OPTIONS (versions)** (**SET\_FEATURE\_FIXED**) with the following options:

Direct, e.g. main fabric = "blue" (**OPTION**)

the setting of version values from another **FEATURE (version type)**; e.g. ledge fabric = main fabric

the calculation of **OPTIONS (versions)** (e.g. sitting height + 5 cm).

This function is only available for dimension versions and takes place via a formula string that may contain parameters and values.

This requires the **FEATURE (version type)** (e.g. sitting height) to be assigned with a parameter (e.g. "sh").

[...]

The visibility of **FEATURES (version types)** (**SET\_FEATURE\_VISIBLE**, **SET\_FEATURE\_INVISIBLE**) and disabling of **DECISIONS (rules)** (**DISABLE\_DECISION**, **ENABLE\_DECISION**):

[...]

DECISION\_TYPE under DECISION:

4.0.1

This attribute is used to specify the rule type.

0 = excluding preparation rule

This allows for the definition of invalid versions in **OPTION\_COMBINATION/FEATURE\_REF**. These are used to determine the invalid versions of a version type. These rules do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the version types (**FEATURES**) as column headings; the cell contents of this table are values, lists, intervals, version groups that are linked by quantity operators.

1 = Preparation rule

This allows for the definition of valid versions in **OPTION\_COMBINATION/FEATURE\_REF**. These are used to determine the valid versions of a version type. These rules do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the version types (**FEATURES**) as column headings; the cell contents of this table are values, lists, intervals, version groups that are linked by quantity operators.

2 = Action rule

It allows for the definition of actions in addition to the conditions.

The rules are analysed before a version is entered for an item.

Once a value has been selected, the action rules apply and then set values or make written types invisible.

For action rules, it is always the first line (**OPTIONS\_SET\_REF**) that applies. In this case, all associated **ACTIONS** are executed.

[...]

A = Added = Addition of new elements or attributes

C = Changed = Changes to existing elements, attributes or descriptive texts

R = Removed = Deletion of elements or attributes

F = Fixed = Error corrections to existing elements, attributes or descriptive texts



### 4.1.1

This attribute is used to specify the **DECISION (rule)** type.

0 = excluding preparation rule

This allows for the definition of invalid **OPTIONS (versions)** in **OPTION\_COMBINATION/FEATURE\_REF**. These are used to determine the invalid **OPTIONS (versions)** of a **FEATURE (version type)**. These **DECISIONS (rules)** do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the **FEATURES (version typeS)** as column headings; the cell contents of this table are values, lists, intervals, **OPTION\_GROUPS (version groups)** that are linked by quantity operators.

1 = Preparation rule

This allows for the definition of valid **OPTIONS (versions)** in **OPTION\_COMBINATION/FEATURE\_REF**. These are used to determine the valid **OPTIONS (versions)** of a **FEATURE (version type)**. These **DECISIONS (rules)** do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the **FEATURES (version types)** as column headings; the cell contents of this table are values, lists, intervals, **OPTION\_GROUPS (version groups)** that are linked by quantity operators.

2 = Action rule

It allows for the definition of actions in addition to the conditions.

The **DECISIONS (rules)** are analysed before an **OPTION (version)** is entered for an item.

Once a value has been selected, the action rules apply and then set values or make written types invisible.

For action rules, it is always the first line (**OPTIONS\_SET\_REF**) that applies. In this case, all associated **ACTIONS** are executed.

[...]

**OPTION\_SET\_REF** under **OPTION\_COMBINATION**:

### 4.0.1

This element is used to reference a version type and define a rule for its version variations. The rules may be defined via values, lists, intervals or version groups in conjunction with a quantity operator.

[...]

### 4.1.1

This element is used to reference a **FEATURE (version type)** and define a **DECISION (rule)** for its **OPTIONS (version variations)**. The **DECISIONS (rules)** may be defined via values, lists, intervals or **OPTION\_GROUPS (version groups)** in conjunction with a quantity operator.

[...]



### ACTIONS under OPTION\_COMBINATION:

#### 4.0.1

This element is used to determine actions that are executed under certain conditions.

Actions (ACTIONS) are instructions that are executed if a condition is met. The following actions can be executed:

- The setting of versions (SET\_FEATURE\_FIXED) with the following options:

- ° Direct, e.g. main fabric = "blue" (OPTION)
- ° the setting of version values from another version type (FEATURE), e.g. ledge fabric = main fabric
- ° the calculation of versions (e.g. sitting height + 5 cm).

This function is only available for dimension versions and takes place via a formula string that may contain parameters and values.

This requires the version type (e.g. sitting height) to be assigned with a parameter (e.g. "sh"). The measure parameter (MEASURE\_PARAMETER) can be supplemented with a unit (MEASURE\_UNIT). The formula (FORMULA\_STRING) therefore only contains the parameters (e.g. planning width = 2 \* st + sb, which means that the planning width results from the sitting width + 2 times the side element width.

- The setting of standard versions (SET\_FEATURE\_DEFAULT, SET\_FEATURE\_DEFAULT\_NULL):

These can be filled if no value has been entered yet. The same options as above apply.

- The visibility of version types (SET\_FEATURE\_VISIBLE, SET\_FEATURE\_INVISIBLE) and disabling of rules (DISABLE\_DECISION, ENABLE\_DECISION):

Example: for wooden feet, a potentially existing version type for a shade can be displayed and made invisible if a metal foot is selected.

#### 4.1.1

This element is used to determine actions that are executed under certain conditions.

ACTIONS are instructions that are executed if a condition is met. The following ACTIONS can be executed:

- The setting of **OPTIONS (versions)** (SET\_FEATURE\_FIXED) with the following options:

- ° Direct, e.g. main fabric = "blue" (OPTION)
- ° the setting of version values from another FEATURE (**version type**) e.g. ledge fabric = main fabric
- ° the calculation of **OPTIONS (versions)** (e.g. sitting height + 5 cm).

This function is only available for dimension versions and takes place via a formula string that may contain parameters and values.

This requires the version type (e.g. sitting height) to be assigned with a parameter (e.g. "sh"). The measure parameter (MEASURE\_PARAMETER) can be supplemented with a unit (MEASURE\_UNIT). The formula (FORMULA\_STRING) therefore only contains the parameters (e.g. planning width = 2 \* st + sb, which means that the planning width results from the sitting width + 2 times the side element width.

- The setting of standard versions (SET\_FEATURE\_DEFAULT, SET\_FEATURE\_DEFAULT\_NULL):

These can be filled if no value has been entered yet. The same options as above apply.

- The visibility of **FEATURES (version types)** (SET\_FEATURE\_VISIBLE, SET\_FEATURE\_INVISIBLE) and disabling of **DECISIONS (rules)** (DISABLE\_DECISION, ENABLE\_DECISION):

Example: for wooden feet, a potentially existing version type for a shade can be displayed and made invisible if a metal foot is selected.



SET\_FEATURE\_FIXED:

4.0.1

This action is used to set versions.

The following options are available for the setting of versions:

- Direct, e.g. main fabric = "blue" (OPTION)
- the setting of version values from another version type (FEATURE), e.g. ledge fabric = main fabric
- the calculation of versions (e.g. sitting height + 5 cm). This function is only available for dimension versions and takes place via a formula string that may contain parameters and values. This requires the version type (e.g. sitting height) to be assigned with a parameter (e.g. "sh"). The measure parameter (MEASURE\_PARAMETER) can be supplemented with a unit (MEASURE\_UNIT). The formula (FORMULA\_STRING) therefore only contains the parameters (e.g. planning width = 2 \* st + sb, which means that the planning width results from the sitting width + 2 times the side element width).

4.1.1

This **ACTIONS** is used to set **OPTIONS (versions)**. These cannot be overwritten by subsequent **DECISIONS (rules)**.

The following options are available for the setting of **OPTIONS (versions)**:

- Direct, e.g. main fabric = "blue" (OPTION)
- the setting of version values from another **FEATURE (version type)** e.g. ledge fabric = main fabric
- the calculation of **OPTIONS (versions)** (e.g. sitting height + 5 cm). This function is only available for dimension versions and takes place via a formula string that may contain parameters and values. This requires the version type (e.g. sitting height) to be assigned with a parameter (e.g. "sh"). The measure parameter (MEASURE\_PARAMETER) can be supplemented with a unit (MEASURE\_UNIT). The formula (FORMULA\_STRING) therefore only contains the parameters (e.g. planning width = 2 \* st + sb, which means that the planning width results from the sitting width + 2 times the side element width).

SET\_POS\_COUNT\_VALUE:

4.0.1

This version is used to set a quantity in the parts list.  
This action must only be specified for rules with DECISION\_TYPE = 3.

4.1.1

This version is used to set a quantity in the parts list.  
This action must only be specified for **DECISIONS (rules)** with DECISION\_TYPE = 3.

OPTION\_GROUPS:

4.0.1

This element is use to group quantities of versions. They can be reference in the rules below OPTION\_COMBINATION/FEATURE\_REF in DECISIONS and below FINISH, and PERCENTAGE\_SURCHARGE in the PRICE\_FEATURE\_GROUPS. These versions are to be considered an independent pool and have no connection to any version type.

4.1.1

This element is use to group quantities of **OPTIONS (versions)**. They can be reference in the **DECISIONS (rules)** below OPTION\_COMBINATION/FEATURE\_REF in DECISIONS and below FINISH, and PERCENTAGE\_SURCHARGE in the PRICE\_FEATURE\_GROUPS. These **OPTIONS (versions)** are to be considered an independent pool and have no connection to any **FEATURE (version type)**.

A = Added = Addition of new elements or attributes

C = Changed = Changes to existing elements, attributes or descriptive texts

R = Removed = Deletion of elements or attributes

F = Fixed = Error corrections to existing elements, attributes or descriptive texts



Variant family:

FEATURE\_CLASS\_REF under PRODUCT\_GROUP:

4.0.1 This element is used to assign a version family to the product group. A version family referenced in the FEATURE_DEFINITION/FEATURE_CLASSES element is defined here.
4.1.1 This element is used to assign a <b>FEATURE_CLASS (version family)</b> to the product group. A <b>FEATURE_CLASS (version family)</b> referenced in the FEATURE_DEFINITION/FEATURE_CLASSES element is defined here.

FEATURE\_CLASS:

4.0.1 This element is used to define a version family.
4.1.1 This element is used to define a <b>FEATURE_CLASS (version family)</b> .

FEATURE\_CLASS\_NO:

4.0.1 This attribute is used to identify a version family.
4.1.1 This attribute is used to identify a <b>FEATURE_CLASS (version family)</b> .

FEATURE\_REF under FEATURE\_CLASS:

4.0.1 This version type refers to the FEATURE (path 1) element. Only helpful versions must be referenced in the version family of an item. Example: the version family vacation must not contain any version types for feet shapes. [...]
4.1.1 This version type refers to the FEATURE (path 1) element. Only helpful <b>FEATURES (version types)</b> must be referenced in the <b>FEATURE_CLASS (version family)</b> of an item. Example: the FEATURE_CLASS (version family) vacation must not contain any <b>FEATURES (version types)</b> for feet shapes. [...]



### FEATURES:

#### 4.0.1

This element is used to define the version types (FEATURE) and the associated versions. Only the version types needed for correctly mapping the catalogue are defined.

The combination of finish and colour is used for some version types.

If this is the case, version types must always be created in pairs. The corresponding colour version type exists for the respective finish version types; a corresponding finish version type exists for the colour version type.

Version types declared as invisible version types are not be referenced in a version family.

All version types in the FEATURES (path 3) element that are not declared as invisible head version type must be referenced in at least one version family.

Further information about version types can be found in the Introduction in section "version types"  
[...]

#### 4.1.1

This element is used to define the **FEATURE (version types)** and the associated **OPTIONS (versions)**. Only the **FEATURES (version types)** needed for correctly mapping the catalogue are defined.

The combination of finish and colour is used for some **FEATURES (version types)**.

If this is the case, **FEATURES (version types)** must always be created in pairs. The corresponding colour version type exists for the respective finish version types; a corresponding finish version type exists for the colour version type.

**FEATURES (version types)** declared as invisible **FEATURES (version types)** are not be referenced in a **FEATURE\_CLASS (version family)**.

All **FEATURES (version types)** in the FEATURES (path 3) element that are not declared as invisible head version type must be referenced in at least one **FEATURE\_CLASS (version family)**.

Further information about **FEATURES (version types)** can be found in the Introduction in section "**FEATURES (version types)**"  
[...]



Variant type:

Introduction > Elements of the catalogue structure

4.0.1

## 2. Creating the versions

The versions are created in the following element:

```
FEATURE_DEFINITION/FEATURES/FEATURE
<FEATURE FEATURE_NO="1">
  <OPTIONS>
    <OPTION OPTION_KEY="L"
  </OPTION>
    <OPTION OPTION_KEY="S"
  </OPTION>
  </OPTIONS>
</FEATURE>
```

Version types are defined via version type numbers, e.g. 1. The version is unequivocally identified by the combination of FEATURE\_NO in FEATURE\_DEFINITION/FEATURES/FEATURE and OPTION\_KEY in FEATURE\_DEFINITION/FEATURES/FEATURE/OPTIONS/OPTION.

4.1.1

## 2. Creating the **OPTIONS (versions)**

The versions are created in the following element:

```
FEATURE_DEFINITION/FEATURES/FEATURE
<FEATURE FEATURE_NO="1">
  <OPTIONS>
    <OPTION OPTION_KEY="L"
  </OPTION>
    <OPTION OPTION_KEY="S"
  </OPTION>
  </OPTIONS>
</FEATURE>
```

**FEATURES (Version types)** are defined via version type numbers, e.g. 1. The **OPTION (version)** is unequivocally identified by the combination of FEATURE\_NO in FEATURE\_DEFINITION/FEATURES/FEATURE and OPTION\_KEY in FEATURE\_DEFINITION/FEATURES/FEATURE/OPTIONS/OPTION.



Introduction > Elements of the catalogue structure

4.0.1

### Creating version information

Version information is created in the IDM schema as described in the following:

- Creation of variations for the versions
- Assignment of variation and version type

4.1.1

### Creating version information

Version information is created in the IDM schema as described in the following:

- Creation of variations for the **OPTIONS (versions)**
- Assignment of variation and **FEATURES (version type)**

Introduction > Elements of the catalogue structure

4.0.1

### Assignment of variation and version type

To use the colours defined in the example above, version types must be assigned, which results in versions.

The assignment of version types (FEATURE) and variations (OPTION) to versions is done in the element T\_NEW\_CATALOG/FEATURE\_DEFINITION/FEATURES/FEATURE. A variation is formed and identified by the combination of FEATURE and OPTION. The following XML elements define 2 feed heights (version type 15).

Example: assembly of versions from version type and variations

4.1.1

### Assignment of variation and version type

To use the colours defined in the example above, version types must be assigned, which results in versions.

The assignment of version types (FEATURE) and variations (OPTION) to versions is done in the element T\_NEW\_CATALOG/FEATURE\_DEFINITION/FEATURES/FEATURE. A variation is formed and identified by the combination of FEATURE and OPTION. The following XML elements define 2 feed heights (**FEATURE 1015**).

Example: assembly of versions from **FEATURE (version type)** and **OPTIONS (variations)**



Introduction > Catalogue and element structure

### 4.0.1

The SERIE element is used to define the properties of a series. Product groups (PRODUCT\_GROUPS) in which items (ITEMS) with similar version types are combined are defined within the series. The items are automatically assigned to a series because they are child elements of the SERIE element. The DECISIONS elements are used to cross-series assign versions to a series, product group or item via rules. It is also possible to assign actions (ACTIONS) to the rules defined in DECISIONS.

### 4.1.1

The SERIE element is used to define the properties of a series. PRODUCT\_GROUPS in which ITEMS with similar FEATURES (version types) are combined are defined within the series. The items are automatically assigned to a series because they are child elements of the SERIE element. The DECISIONS elements are used to cross-series assign OPTIONS (versions) to a series, product group or item via rules. It is also possible to assign actions (ACTIONS) to the rules defined in DECISIONS.



Introduction > Referencing

4.0.1

**Example:** referencing of a version

The following example shows how to reference a version from an assessment procedure.

Key element	T_NEW_CATALOG/FEATURE_DEFINITION/FEATURES/FEATURE/OPTIONS/OPTION
-------------	--

```
<FEATURES>
  <FEATURE FEATURE_NO="15"> <!-- Fußhöhe -->
    <OPTIONS>
      <OPTION OPTION_KEY="100"> ... </OPTION>
      <OPTION OPTION_KEY="120"> ... </OPTION>
      <OPTION OPTION_KEY="30"> ... </OPTION>
    </OPTIONS>
  </FEATURE>
  <FEATURE FEATURE_NO="17"> <!-- Fußform -->
    <OPTIONS>
      <OPTION OPTION_KEY="F00"> ... </OPTION>
      <OPTION OPTION_KEY="F3Z"> ... </OPTION>
      <OPTION OPTION_KEY="F70"> ... </OPTION>
    </OPTIONS>
  </FEATURE>
</FEATURES>
```

For version type 15, the XML elements define three versions (OPTION) with codes 100,120,30. For version type 17, three versions with codes F00, F3Z, F70 are defined. A version is identified via the combination of FEATURE\_NO and OPTION\_KEY.

4.1.1

**Example:** referencing of an OPTION (version)

The following example shows how to reference an OPTION (version) from an assessment procedure.

Key element	T_NEW_CATALOG/FEATURE_DEFINITION/FEATURES/FEATURE/OPTIONS/OPTION
-------------	--

```
<FEATURES>
  <FEATURE FEATURE_NO="1015"> <!-- Fußhöhe -->
    <OPTIONS>
      <OPTION OPTION_KEY="100"> ... </OPTION>
      <OPTION OPTION_KEY="120"> ... </OPTION>
      <OPTION OPTION_KEY="30"> ... </OPTION>
    </OPTIONS>
  </FEATURE>
  <FEATURE FEATURE_NO="1017"> <!-- Fußform -->
    <OPTIONS>
      <OPTION OPTION_KEY="F00"> ... </OPTION>
      <OPTION OPTION_KEY="F3Z"> ... </OPTION>
      <OPTION OPTION_KEY="F70"> ... </OPTION>
    </OPTIONS>
  </FEATURE>
</FEATURES>
```

For FEATURE (version type) 1015, the XML elements define three versions (OPTION) with codes 100,120,30. For FEATURE (version type) 1017, three versions with codes F00, F3Z, F70 are defined. A version is identified via the combination of FEATURE\_NO and OPTION\_KEY.



Introduction > DECISIONS (Test procedures)

### 4.0.1

This allows for the definition of valid versions in OPTION\_COMBINATION. These are used to determine the valid versions of a version type. These DECISIONS (rules) do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the version types (FEATURES) as column headings; the cell contents of this table are values, lists, intervals, version groups that are linked by quantity operators.

### 4.1.1

This allows for the definition of valid **OPTIONS (versions)** in OPTION\_COMBINATION. These are used to determine the valid **OPTIONS (versions)** of a **FEATURE (version type)**. These DECISIONS (rules) do not have an action part ("ACTIONS") and they define a quantity of version combinations that are either true or false. This is a table with the version types (FEATURES) as column headings; the cell contents of this table are values, lists, intervals, version groups that are linked by quantity operators.



Introduction > DECISIONS (Test Procedure)

4.0.1

- The setting of versions (SET\_FEATURE\_FIXED) with the following options:
  - Direct, e.g. main fabric = "blue" (OPTION)
  - the setting of version values from another version type (FEATURE), e.g. ledge fabric = main fabric
  - the calculation of versions (e.g. sitting height + 5 cm).

This function is only available for dimension versions and takes place via a formula string that may contain parameters and values.

This requires the version type (e.g. sitting height) to be assigned with a parameter (e.g. "sh").

The measure parameter (MEASURE\_PARAMETER) can be supplemented with a unit (MEASURE\_UNIT). The formula (FORMULA\_STRING) therefore only contains the parameters (e.g. planning width =  $2 * st + sb$ , which means that the planning width results from the sitting width + 2 times the side element width.

- Setting default versions (SET\_FEATURE\_DEFAULT):

These can be filled if no value has been entered yet. The same options as above apply.
- The visibility of version types (SET\_FEATURE\_VISIBLE, SET\_FEATURE\_INVISIBLE) and disabling of rules (DISABLE\_DECISION, ENABLE\_DECISION):

Example: for wooden feet, a potentially existing version type for a shade can be displayed and made invisible if a metal foot is selected.

4.1.1

- The setting of **OPTIONS (versions)** (SET\_FEATURE\_FIXED) with the following options:
  - Direct, e.g. main fabric = "blue" (OPTION)
  - the setting of **OPTION (version)** values from another **FEATURE (version type)**, e.g. ledge fabric = main fabric
  - the calculation of **OPTIONS (versions)** (e.g. sitting height + 5 cm).

This function is only available for dimension versions and takes place via a formula string that may contain parameters and values.

This requires the **FEATURE (version type)** (e.g. sitting height) to be assigned with a parameter (e.g. "sh").

The measure parameter (MEASURE\_PARAMETER) can be supplemented with a unit (MEASURE\_UNIT). The formula (FORMULA\_STRING) therefore only contains the parameters (e.g. planning width =  $2 * st + sb$ , which means that the planning width results from the sitting width + 2 times the side element width.

- Setting default versions (SET\_FEATURE\_DEFAULT):

These can be filled if no value has been entered yet. The same options as above apply.
- The visibility of **FEATURES (version types)** (SET\_FEATURE\_VISIBLE, SET\_FEATURE\_INVISIBLE) and disabling of **DECISION (rules)** (DISABLE\_DECISION, ENABLE\_DECISION):

Example: for wooden feet, a potentially existing **FEATURE (version type)** for a shade can be displayed and made invisible if a metal foot is selected.



[Introduction > FEATURES \(Variant Types\)](#)

4.0.1

## Version types



IDM

IDML 4.1.0 XML schema documentation

[Introduction > Version types](#)

### Version types

The following version types have been defined:

Freely defined version types are available from 213 to 999.

Type: O = finish  
C = colour  
M = dimensions

Feature	Feature text	Type	Remark/possible variations
---------	--------------	------	----------------------------

4.1.1

## FEATURES (Version types)



IDM

IDML 4.1.0 XML schema documentation

[Introduction > FEATURES \(Version types\)](#)

### Version types

The following version types have been defined:

Freely defined version types are available from 213 to 999.

Type: O = finish  
C = colour  
M = dimensions

FEATURE_NO	FEATURE_TEXT	FEATURE_TYPE	Remark/possible variations
------------	--------------	--------------	----------------------------

### PRODUCT\_GROUPS:

4.0.1	This element is used to define product groups. Product groups are used to combine articles with identical version types (e.g. upholstered furniture with armrests).
4.1.1	This element is used to define product groups. Product groups are used to combine articles with identical <b>FEATURES (version types)</b> (e.g. upholstered furniture with armrests).

### FEATURE\_NO under FEATURE\_CLASS:

4.0.1	This attribute is used to reference a version type.
4.1.1	This attribute is used to reference a <b>FEATURE (version type)</b> .

### INVISIBLE under FEATURE\_CLASS:

4.0.1	If the value of this attribute is set to true (or 1), it specifies that the corresponding version type is invisible.
4.1.1	If the value of this attribute is set to true (or 1), it specifies that the corresponding <b>FEATURE (version type)</b> is invisible.

### FEATURE\_NO under FEATURE:

4.0.1	This attribute is used to identify a version type.
4.1.1	This attribute is used to identify a <b>FEATURE (version type)</b> .

### OPTIONS under FEATURE:

4.0.1	It is a container element in which the possible variations of a version type are stored.
4.1.1	It is a container element in which the possible variations of a <b>FEATURE (version type)</b> are stored.



OPTION under OPTIONS:

4.0.1

This element is used to define the versions for the superordinate version type. All versions necessary in the data pool are stored here. If the version to be created is a variation version (introduction: table version types identified by type A), no colour values must be specified.

4.1.1

This element is used to define the **OPTIONS (versions)** for the superordinate **FEATURE (version type)**. All **OPTIONS (versions)** necessary in the data pool are stored here. If the **OPTION (version)** to be created is a variation version (introduction: table version types identified by type A), no colour values must be specified.

OPTION\_MEASURE\_REF under OPTION:

4.0.1

This attribute is used to reference a dimensional variation of a version type.

4.1.1

This attribute is used to reference a dimensional variation of a **FEATURE (version type)**.

FEATURE\_TEXT:

4.0.1

This element contains texts for version types.

4.1.1

This element contains texts for **FEATURES (version types)**.

SEQUENCE\_NO under FEATURE

4.0.1

This element is used to specify a manufacturer-specific sorting for the version types.

[...]

4.1.1

This element is used to specify a manufacturer-specific sorting for the **FEATURES (version types)**.

[...]

### HEADER\_POS\_VARIATION\_TYPE:

#### 4.0.1

This element is an identifier that specifies whether a version type is an

I = implicit version type,

K = head version type, or

P = position version type.

It serves the purpose of controlling the processing method on head or position level, version types designated with a "P" must, according to the manufacturer, not be processed on head level.

Version types designated with an "I" are visible and result implicitly from other version types.

#### 4.1.1

This element is an identifier that specifies whether a **FEATURE (version type)** is an

I = implicit version type,

K = head version type, or

P = position version type.

It serves the purpose of controlling the processing method on head or position level, **FEATURES (version types)** designated with a "P" must, according to the manufacturer, not be processed on head level.

**FEATURES (Version types)** designated with an "I" are visible and result implicitly from other **FEATURES (version types)**.

### FEATURE\_TYPE:

#### 4.0.1

This element is used to identify the version type corresponding to the version. A version can be assigned dimensional variations (value of FEATURE\_T "M"), colour variations (value of FEATURE\_T "C") or other version types (value of FEATURE\_T "O").

#### 4.1.1

This element is used to identify the **FEATURES (version type)** corresponding to the version. A **FEATURE (version type)** can be assigned dimensional variations (value of FEATURE\_T "M"), colour variations (value of FEATURE\_T "C") or other version types (value of FEATURE\_T "O").

### FEATURE\_T

#### 4.0.1

This attribute is used to define the version type assigned to the version.

M = dimensional versions

C = colour versions

O = other versions

#### 4.1.1

This attribute defines the variant type corresponding to the **FEATURE (version type)**.

M = dimensional versions

C = colour versions

O = other versions

DETAIL\_INFOS under FEATURE:

### 4.0.1

This element is used to assign media. It is possible to assign a number of detailed information points to one version, and each image of the version can then be assigned to specific series or items. The respective image will then only be displayed for the corresponding series or item.

The referencing of media (detailed information) to version types that also contain information on series or items may only be done once per medium, which means that if a number of series or items are referenced, then they all need to be listed when specifying the detailed information.

### 4.1.1

This element is used to assign media. It is possible to assign a number of detailed information points to one **FEATURE (version type)**, and each image of the **FEATURE (version type)** can then be assigned to specific series or items. The respective image will then only be displayed for the corresponding series or item.

The referencing of media (detailed information) to **FEATURES (version types)** that also contain information on series or items may only be done once per medium, which means that if a number of series or items are referenced, then they all need to be listed when specifying the detailed information.

FEATURE\_NO under OPTION\_SET\_REF:

### 4.0.1

This attribute is used to reference a version type.

### 4.1.1

This attribute is used to reference a **FEATURE (version type)**.

REF\_LEVEL under OPTION\_SET\_REF:

### 4.0.1

In parts lists, sub-positions can query version types of the main position (PARENT), the uppermost position (ROOT) and the item itself (SELF) via the REF\_LEVEL and depending on them trigger an action or integrate the action in a condition.

1 = ROOT

2 = PARENT

3 = SELF (default is SELF if no REF level is specified)

### 4.1.1

In parts lists, sub-positions can query **FEATURES (version types)** of the main position (PARENT), the uppermost position (ROOT) and the item itself (SELF) via the REF\_LEVEL and depending on them trigger an action or integrate the action in a condition.

1 = ROOT

2 = PARENT

3 = SELF (default is SELF if no REF level is specified)



FEATURE\_REF\_OP:

4.0.1

This element is used to directly compare the version type.  
The comparison operator may contain the following values:  
eq (equal)  
ne (not equal)

4.1.1

This element is used to directly compare the **FEATURE (version type)**.  
The comparison operator may contain the following values:  
eq (equal)  
ne (not equal)

FEATURE\_NO under FEATURE\_REF\_OP:

4.0.1

This attribute is used to reference a version type.

4.1.1

This attribute is used to reference a **FEATURE (version type)**.

OPERATOR under FEATURE\_REF\_OP:

4.0.1

This attribute is used to define a comparison with a version type.  
The comparison operator may contain the following values:  
eq (equal)  
ne (not equal)

4.1.1

This attribute is used to define a comparison with a **FEATURE (version type)**.  
The comparison operator may contain the following values:  
eq (equal)  
ne (not equal)

### SET\_FEATURE\_DEFAULT:

#### 4.0.1

This action is used to set standard versions.

These can be filled if no value has been entered yet.

The following options are available for the setting of versions:

Directe.g. main fabric = "blue" (OPTION)

the setting of version values from another version type (FEATURE), e.g. ledge fabric = main fabric

the calculation of versions (e.g. sitting height + 5 cm).

This function is only available for dimension versions and takes place via a formula string that may contain parameters and values.

This requires the version type (e.g. sitting height) to be assigned with a parameter (e.g. "sh").

The measure parameter (MEASURE\_PARAMETER) can be supplemented with a unit (MEASURE\_UNIT). The formula (FORMULA\_STRING) therefore only contains the parameters (e.g. planning width = 2 \* st + sb, which means that the planning width results from the sitting width + 2 times the side element width.

#### 4.1.1

This **ACTION** is used to set standard versions.

These can be filled if no value has been entered yet.

The following options are available for the setting of **OPTIONS (versions)**:

Directe.g. main fabric = "blue" (OPTION)

the setting of **OPTIONS (version values)** from another **FEATURE (version type)**; e.g. ledge fabric = main fabric

the calculation of **OPTIONS (versions)** (e.g. sitting height + 5 cm).

This function is only available for dimension versions and takes place via a formula string that may contain parameters and values.

This requires the **FEATURE (version type)** (e.g. sitting height) to be assigned with a parameter (e.g. "sh").

The measure parameter (MEASURE\_PARAMETER) can be supplemented with a unit (MEASURE\_UNIT). The formula (FORMULA\_STRING) therefore only contains the parameters (e.g. planning width = 2 \* st + sb, which means that the planning width results from the sitting width + 2 times the side element width.

### FEATURE\_NO under SET\_FEATURE\_DEFAULT:

#### 4.0.1

This attribute is used to reference a version type.

#### 4.1.1

This attribute is used to reference a FEATURE (version type).



FEATURE\_REF under SET\_FEATURE\_DEFAULT:

4.0.1	This element references another version type for the setting of version values.
4.1.1	This element references another <b>FEATURE (version type)</b> for the setting of <b>OPTIONS (version values)</b> .

FEATURE\_NO under FEATURE\_REF below SET\_FEATURE\_DEFAULT:

4.0.1	This attribute is used to reference a version type.
4.1.1	This attribute is used to reference a <b>FEATURE (version type)</b> .

FEATURE\_NO under SET\_FEATURE\_FIXED:

4.0.1	This attribute is used to reference a version type.
4.1.1	This attribute is used to reference a <b>FEATURE (version type)</b> .

FEATURE\_REF under SET\_FEATURE\_FIXED:

4.0.1	This element references another version type for the setting of version values.
4.1.1	This element references another <b>FEATURE (version type)</b> for the setting of <b>OPTIONS (version values)</b> .

FEATURE\_NO under FEATURE\_REF below SET\_FEATURE\_FIXED:

4.0.1	This attribute is used to reference a version type.
4.1.1	This attribute is used to reference a <b>FEATURE (version type)</b> .

SET\_FEATURE\_VISIBLE:

4.0.1	This action makes version types visible.
4.1.1	This action makes <b>FEATURES (version types)</b> visible.



FEATURE\_NO under SET\_FEATURE\_VISIBLE:

4.0.1 This attribute is used to reference a version type.
4.1.1 This attribute is used to reference a <b>FEATURE (version type)</b> .

SET\_FEATURE\_INVISIBLE:

4.0.1 This action can be used to make variant types invisible.
4.1.1 This action can be used to make <b>FEATURES (variant types)</b> invisible.

FEATURE\_NO under SET\_FEATURE\_INVISIBLE:

4.0.1 This action makes version types invisible.
4.1.1 This action makes <b>FEATURES (version types)</b> invisible.

SET\_FEATURE:

4.0.1 This action sets a value for a version of a version type. Contrary to „SET_FEATURE FIXED“, this value can be modified if permitted by the conditions. This value rule also applies if the corresponding field was previously set to default or manual.
4.1.1 This <b>ACTION</b> sets a value for an <b>OPTION (version)</b> of a <b>FEATURE (version type)</b> . Contrary to „SET_FEATURE FIXED“, this value can be modified if permitted by the conditions. This value rule also applies if the corresponding field was previously set to default or manual.

FEATURE\_NO under SET\_FEATURE:

4.0.1 This attribute is used to reference a version type.
4.1.1 This attribute is used to reference a <b>FEATURE (version type)</b> .



FEATURE\_REF under SET\_FEATURE:

4.0.1	This element references another version type for the setting of version values.
4.1.1	This element references another <b>FEATURE (version type)</b> for the setting of <b>OPTIONS (version values)</b> .

FEATURE\_NO under FEATURE\_REF below SET\_FEATURE:

4.0.1	This attribute is used to reference a version type.
4.1.1	This attribute is used to reference a <b>FEATURE (version type)</b> .

FEATURE\_NO under SET\_FEATURE\_DEFAULT\_NULL:

4.0.1	This attribute is used to reference a version type.
4.1.1	This attribute is used to reference a <b>FEATURE (version type)</b> .

FEATURE\_REF under SET\_FEATURE\_DEFAULT\_NULL:

4.0.1	This element references another version type for the setting of NULL.
4.1.1	This element references another <b>FEATURE (version type)</b> for the setting of NULL.

FEATURE\_NO under FEATURE\_REF below SET\_FEATURE\_DEFAULT\_NULL:

4.0.1	This attribute is used to reference a version type.
4.1.1	This attribute is used to reference a <b>FEATURE (version type)</b> .

FEATURE\_REF under DECISION:

4.0.1	This element is used to reference a version type.
4.1.1	This element is used to reference a <b>FEATURE (version type)</b> .



FEATURE\_NO under FEATURE\_REF under DECISION:

4.0.1

This attribute is used to reference a version type.

4.1.1

This attribute is used to reference a **FEATURE (version type)**.

OPTION\_GROUPS under FEATURE\_DEFINITION:

4.0.1

This element is used to group quantities of versions. They can be referenced in the rules below OPTION\_COMBINATION/FEATURE\_REF in DECISIONS and below FINISH, and PERCENTAGE\_SURCHARGE in the PRICE\_FEATURE\_GROUPS. These versions are to be considered an independent pool and have no connection to any version type.

4.1.1

This element is used to group quantities of **OPTIONS (versions)**. They can be referenced in the **DECISIONS (rules)** below OPTION\_COMBINATION/FEATURE\_REF in DECISIONS and below FINISH, and PERCENTAGE\_SURCHARGE in the PRICE\_FEATURE\_GROUPS. These **OPTIONS (versions)** are to be considered an independent pool and have no connection to any **FEATURE (version type)**.

FORMULAS:

4.0.1

This element is used for the calculation of versions (e.g. sitting height + 5 cm). The function is however only permitted for dimensional versions with a version type that contains the value "M", the unit of measure can be entered in MEASURE\_UNIT, the parameter (e.g. sh for sitting height) in MEASURE\_PARAMETER. The calculation is carried out via a formula string that may contain parameters and values.

4.1.1

This element is used for the calculation of **OPTIONS (versions)** (e.g. sitting height + 5 cm). The function is however only permitted for dimensional versions with a **FEATURE (version type)** that contains the value "M", the unit of measure can be entered in MEASURE\_UNIT, the parameter (e.g. sh for sitting height) in MEASURE\_PARAMETER. The calculation is carried out via a formula string that may contain parameters and values. Only mathematical operators (+, -, \*, /) may be used. The rule of precedence applies.

### PRICE\_FEATURE\_GROUP:

#### 4.0.1

This element is used to specify price control information. The PRICE\_FEATURE\_GROUP is used to control the conditions under which a price (e.g. version combinations) applies.

A PRICE\_FEATURE\_GROUP is referenced by the item. The specific prices are also specified in the item.

The following rules apply to PRICE\_FEATURE\_GROUP and/or items:

- A price group-neutral item has zero versions, only price field 1 must be specified for these items.
- Variation-dependent items have one or a number of version types.
- An item must reference precisely one base price group (ADDITIONAL\_PRICE=0).

Multiple PRICE\_FEATURE\_GROUPS with the same combination of version types are prohibited. Example: PRICE\_FEATURE\_GROUP with version type feet shape should only exist once and map everything that is related to the feet shape.

#### 4.1.1

This element is used to specify price control information. The PRICE\_FEATURE\_GROUP is used to control the conditions under which a price (e.g. version combinations) applies.

A PRICE\_FEATURE\_GROUP is referenced by the item. The specific prices are also specified in the item.

The following rules apply to PRICE\_FEATURE\_GROUP and/or items:

- Price group-neutral item can have OPTIONS (variants) that do not affect the price. Their price does not have to be in price field 1, but they may only have one FINISH element for the price field specification. For price field-independent items for which only one FINISH element exists in the PRICE\_FEATURE\_GROUP in which the price is recorded, they may only have one assigned price corresponding to the price field specified in the FINISH element.
- FINISH elements only contain the necessary FEATURES (variant types).
- Version-dependent items have one or more FEATURES (variant types).
- An item must reference exactly one base price group (ADDITIONAL\_PRICE=0).
- In principle, several PRICE\_FEATURE\_GROUPS with the same combination of FEATURES (variant types) may be created.

In an earlier version, the change in the German documentation was not correctly translated into English. This has now been rectified.

### OPTIONS\_SET\_REF under FINISH:

#### 4.0.1

This element is used to reference a version type and define a price group for its version variations. The price groups may be defined via values, lists, intervals or version groups in conjunction with a quantity operator.  
[...]

#### 4.1.1

This element is used to reference a **FEATURE (version type)** and define a price group for its **OPTIONS (version variations)**. The price groups may be defined via values, lists, intervals or **OPTION\_GROUPS (version groups)** in conjunction with a quantity operator.  
[...]

A = Added = Addition of new elements or attributes

C = Changed = Changes to existing elements, attributes or descriptive texts

R = Removed = Deletion of elements or attributes

F = Fixed = Error corrections to existing elements, attributes or descriptive texts



FEATURE\_NO under OPTIONS\_SET\_REF below FINISH

4.0.1 This attribute is used to reference a version type.
4.1.1 This attribute is used to reference a <b>FEATURE (version type)</b> .

OPTIONS\_SET\_REF under PERCENTAGE\_SURCHARGE :

4.0.1 This element is used to reference a version type and defines a percentage surcharge for its version variations. The percentage surcharges may be defined via values, lists, intervals or version groups in conjunction with a quantity operator. [...]
4.1.1 This element is used to reference a <b>FEATURE (version type)</b> and defines a percentage surcharge for its <b>OPTIONS (version variations)</b> . The percentage surcharges may be defined via values, lists, intervals or <b>OPTION_GROUPS (version groups)</b> in conjunction with a quantity operator. [...]

FEATURE\_NO under OPTIONS\_SET\_REF below PERCENTAGE\_SURCHARGE :

4.0.1 This attribute is used to reference a version type.
4.1.1 This attribute is used to reference a <b>FEATURE (version type)</b> .

PRICE\_FEATURE\_GROUP\_REF under PERCENTAGE\_SURCHARGE:

4.0.1 This element is used to reference a price group irrespective of the version type and/or calculation method (PRICE_FEATURE_GROUP).
4.1.1 This element is used to reference a price group irrespective of the <b>FEATURE (version type)</b> and/or calculation method (PRICE_FEATURE_GROUP).



Variant group:

OPTION\_GROUP\_REF\_OP under OPTION\_COMBINATION:

4.0.1 This element is used to evaluate whether a version falls within a version group.
4.1.1 This element is used to evaluate whether an <b>OPTION (version)</b> falls within an <b>OPTION_GROUP (version group)</b> .

OPTION\_GROUP\_KEY under OPTION\_GROUP\_REF\_OP below OPTION\_COMBINATION:

4.0.1 This attribute is used to reference a version group. The attribute must be unique regardless of upper and lower case.
4.1.1 This attribute is used to reference an <b>OPTION_GROUP (version group)</b> . The attribute must be unique regardless of upper and lower case.

OPERATOR under OPTION\_GROUP\_REF\_OP below OPTION\_COMBINATION:

4.0.1 This attribute is used to evaluate whether a version falls within a version group.
4.1.1 This attribute is used to evaluate whether an <b>OPTION (version)</b> falls within an <b>OPTION_GROUP (version group)</b> .

OPTION\_GROUP\_KEY under OPTION\_GROUP:

4.0.1 This attribute is used to identify a version group. The attribute must be unique regardless of upper and lower case.
4.1.1 This attribute is used to identify an <b>OPTION_GROUP (version group)</b> . The attribute must be unique regardless of upper and lower case.

SEQUENCE\_NO under OPTION\_GROUP:

4.0.1 This attribute defines the order of the versions in a version group.
4.1.1 This attribute defines the order of the <b>OPTIONS (versions)</b> in an <b>OPTION_GROUP (version group)</b> .



OPTION\_GROUP\_TEXT under OPTION\_GROUP:

4.0.1 This element contains texts for version groups.
4.1.1 This element contains texts for <b>OPTION_GROUPS (version groups)</b> .

OPTION\_GROUP\_REF\_OP under FINISH:

4.0.1 This element is used to evaluate whether a version falls within a version group.
4.1.1 This element is used to evaluate whether an <b>OPTION (version)</b> falls within an <b>OPTION_GROUP (version group)</b> .

OPTION\_GROUP\_KEY under OPTION\_GROUP\_REF\_OP under FINISH:

4.0.1 This attribute is used to reference a version group. The attribute must be unique regardless of upper and lower case.
4.1.1 This attribute is used to reference an <b>OPTION_GROUP (version group)</b> . The attribute must be unique regardless of upper and lower case.

OPERATOR under OPTION\_GROUP\_REF\_OP below FINISH:

4.0.1 This attribute is used to evaluate whether a version falls within a version group.
4.1.1 This attribute is used to evaluate whether an <b>OPTION (version)</b> falls within an <b>OPTION_GROUP (version group)</b> .

OPTION\_GROUP\_REF\_OP under PERCENTAGE\_SURCHARGE:

4.0.1 This element is used to evaluate whether a version falls within a version group.
4.1.1 This element is used to evaluate whether an <b>OPTION (version)</b> falls within an <b>OPTION_GROUP (version group)</b> .



OPTION\_GROUP\_KEY under OPTION\_GROUP\_REF\_OP under PERCENTAGE\_SURCHARGE:

4.0.1

This attribute is used to reference a version group.  
The attribute must be unique regardless of upper and lower case.

4.1.1

This attribute is used to reference an **OPTION\_GROUP (version group)**.  
The attribute must be unique regardless of upper and lower case.

OPERATOR under OPTION\_GROUP\_REF\_OP below PERCENTAGE\_SURCHARGE:

4.0.1

This attribute is used to check whether a variant is within a variant group.

4.1.1

This attribute is used to evaluate whether an **OPTION (version)** falls within an **OPTION\_GROUP (version group)**.



Variante:

Introduction > Elements of the catalogue structure

4.0.1

### Creating versions

Example: creating versions

#### 1. Definition of the version properties/version variations

The version properties are defined in the following element:

4.1.1

### Creating **OPTIONS (versions)**

Example: creating **OPTIONS (versions)**

#### 1. Definition of the version properties/version variations

The version properties are defined in the following element:

Introduction > Building the catalogue structure

4.0.1

### Assigning series to versions

Ranges are assigned to all series in the following element:

SERIES/DECISIONS/DECISION\_REF

The version is assigned to the series by referencing a rule that defines the version as a valid combination in the SERIES/SERIE/DECISIONS/DECISION\_REF element.

### Assigning items, series and versions

4.1.1

### Assigning **OPTIONS (versions)** to series

Ranges are assigned to all series in the following element:

SERIES/DECISIONS/DECISION\_REF

The **OPTION (version)** is assigned to the series by referencing a **DECISION (rule)** that defines the **OPTION (version)** as a valid combination in the SERIES/SERIE/DECISIONS/DECISION\_REF element.

### Assigning items, series and **OPTIONS (versions)**

### OPTION\_COMMENT\_TEXT:

#### 4.0.1

This element is used to reference a general comment as a notice of special properties of a version. This comment serves user-friendliness purposes and must not contain any order-relevant information. The information specified here will not be analysed electronically.

#### 4.1.1

This element is used to reference a general comment as a notice of special properties of an **OPTION (version)**. This comment serves user-friendliness purposes and must not contain any order-relevant information. The information specified here will not be analysed electronically.

### VALID\_FROM under OPTION:

#### 4.0.1

These elements VALID\_FROM and VALID\_UNTIL are used to define the modified validity periods of versions. If the validity periods have expired, the user of the planning system will be given a warning notice. Use of the version is continued for the planning. The following conditions apply for filling the elements,  
[...]

#### 4.1.1

These elements VALID\_FROM and VALID\_UNTIL are used to define the modified validity periods of **OPTIONS (versions)**. If the validity periods have expired, the user of the planning system will be given a warning notice. Use of the **OPTION (version)** is continued for the planning. The following conditions apply for filling the elements,  
[...]

### VALID\_UNTIL under OPTION:

#### 4.0.1

These elements VALID\_FROM and VALID\_UNTIL are used to define the modified validity periods of versions. If the validity periods have expired, the user of the planning system will be given a warning notice. Use of the version is continued for the planning. The following conditions apply for filling the elements:  
[...]

#### 4.1.1

These elements VALID\_FROM and VALID\_UNTIL are used to define the modified validity periods of **OPTIONS (versions)**. If the validity periods have expired, the user of the planning system will be given a warning notice. Use of the **OPTION (version)** is continued for the planning. The following conditions apply for filling the elements:  
[...]



DETAIL\_INFOS under OPTION:

### 4.0.1

This element is used to assign media. It is possible to assign a number of detail information to one version, and each image of the version can then be assigned to specific series or items. The respective image will then only be displayed for the corresponding series or item.

### 4.1.1

This element is used to assign media. It is possible to assign a number of detail information to one **OPTION (version)**, and each image of the **OPTION (version)** can then be assigned to specific series or items. The respective image will then only be displayed for the corresponding series or item.

The referencing of media (detailed information) to **OPTIONS (variants)**, which may also contain information on series or articles, may only be done once per medium (detailed information). This means that if several series or articles are referenced, they must all be listed in the one piece of detailed information.

In an earlier version, the change in the German documentation was not correctly translated into English. This has now been rectified.

OPTION\_INTERVAL under OPTION\_COMBINATION:

### 4.0.1

This element is used to evaluate whether a version falls within or outside of an interval.

### 4.1.1

This element is used to evaluate whether an **OPTION (version)** falls within or outside of an interval.

OPERATOR under OPTION\_INTERVAL under OPTION\_COMBINATION:

### 4.0.1

This attribute is used to evaluate whether a version is within or without the interval specified in **OPTION\_KEY\_MIN** and **OPTION\_KEY\_MAX**.

### 4.1.1

This attribute is used to evaluate whether an **OPTION (version)** is within or without the interval specified in **OPTION\_KEY\_MIN** and **OPTION\_KEY\_MAX**.

OPTION\_LIST under OPTION\_COMBINATION:

### 4.0.1

This element is used to evaluate whether a version corresponds to a value in a list.

### 4.1.1

This element is used to evaluate whether an **OPTION (version)** corresponds to a value in a list.



OPERATOR under OPTION\_LIST below OPTION\_COMBINATION:

4.0.1	This attribute is used to evaluate whether a version falls within or without a list of values.
4.1.1	This attribute is used to evaluate whether an <b>OPTION (version)</b> falls within or without a list of values.

OPTION\_REF\_OP under OPTION\_COMBINATION:

4.0.1	This element is used to define a comparison with a version. [...]
4.1.1	This element is used to define a comparison with an <b>OPTION (version)</b> . [...]

OPERATOR under OPTION\_REF\_OP below OPTION\_COMBINATION:

4.0.1	This attribute is used to define a comparison with a version. [...]
4.1.1	This attribute is used to define a comparison with an <b>OPTION (version)</b> .

MEASURE\_VALUE\_OP under OPTION\_COMBINATION:

4.0.1	This element is used to check the dimension of a version using another dimension.
4.1.1	This element is used to check the dimension of an <b>OPTION (version)</b> using another dimension.

MEASURE\_INTERVAL under OPTION\_COMBINATION:

4.0.1	This element is used to evaluate whether a version's dimension falls within or outside of an interval.
4.1.1	This element is used to evaluate whether an <b>OPTION (versions)</b> dimension falls within or outside of an interval.

OPTION under OPTION\_GROUP:

4.0.1	This element is used to reference a version.
4.1.1	This element is used to reference an <b>OPTION (version)</b> .

OPTION\_INTERVAL under FINISH:

4.0.1	This element is used to evaluate whether a version falls within or outside of an interval.
4.1.1	This element is used to evaluate whether an <b>OPTION (version)</b> falls within or outside of an interval.
<b>The following applies to the OPTION_INTERVAL element: OPTION_KEY_MIN less than or equal to value_to_be_checked less than or equal to OPTION_KEY_MAX.</b>	

OPERATOR under OPTION\_INTERVAL below FINISH:

4.0.1	This attribute is used to evaluate whether a version is within or without the interval specified in OPTION_KEY_MIN and OPTION_KEY_MAX.
4.1.1	This attribute is used to evaluate whether an <b>OPTION (version)</b> is within or without the interval specified in OPTION_KEY_MIN and OPTION_KEY_MAX.

OPTION\_LIST under FINISH:

4.0.1	This element is used to evaluate whether a version corresponds to a value in a list.
4.1.1	This element is used to evaluate whether an <b>OPTION (version)</b> corresponds to a value in a list.

OPERATOR under OPTION\_LIST below FINISH:

4.0.1	This attribute is used to evaluate whether a version falls within or without a list of values.
4.1.1	This attribute is used to evaluate whether an <b>OPTION (version)</b> falls within or without a list of values.



OPTION\_REF\_OP under FINISH:

4.0.1 This element is used to define a comparison with a version. [...]
4.1.1 This element is used to define a comparison with an <b>OPTION (version)</b> . [...]

OPERATOR under OPTION\_REF\_OP below FINISH:

4.0.1 This attribute is used to define a comparison with a version. [...]
4.1.1 This attribute is used to define a comparison with an <b>OPTION (version)</b> . [...]

MEASURE\_VALUE\_OP under FINISH:

4.0.1 This element is used to check the dimension of a version using another dimension.
4.1.1 This element is used to check the dimension of an <b>OPTION (version)</b> using another dimension.

MEASURE\_INTERVAL under FINISH:

4.0.1 This element is used to evaluate whether a version's dimension falls within or outside of an interval.
4.1.1 This element is used to evaluate whether an <b>OPTION (versions)</b> dimension falls within or outside of an interval.

OPTION\_INTERVAL under PERCENTAGE\_SURCHARGE:

4.0.1 This element is used to evaluate whether a version falls within or outside of an interval.
4.1.1 This element is used to evaluate whether an <b>OPTION (version's)</b> dimension falls within or outside of an interval.  <b>The following applies to the OPTION_INTERVAL element: OPTION_KEY_MIN less than or equal to value_to_be_checked less than or equal to OPTION_KEY_MAX.</b>



OPERATOR under OPTION\_INTERVAL below PERCENTAGE\_SURCHARGE:

4.0.1

This attribute is used to evaluate whether a version is within or without the interval specified in OPTION\_KEY\_MIN and OPTION\_KEY\_MAX.

4.1.1

This attribute is used to evaluate whether an **OPTION (version)** is within or without the interval specified in OPTION\_KEY\_MIN and OPTION\_KEY\_MAX.

OPTION\_LIST under PERCENTAGE\_SURCHARGE:

4.0.1

This element is used to evaluate whether a version corresponds to a value in a list.

4.1.1

This element is used to evaluate whether an **OPTION (version)** corresponds to a value in a list.

OPERATOR under OPTION\_LIST below PERCENTAGE\_SURCHARGE:

4.0.1

This attribute is used to evaluate whether a version falls within or without a list of values.

4.1.1

This attribute is used to evaluate whether an **OPTION (version)** falls within or without a list of values.

OPTION\_REF\_OP under PERCENTAGE\_SURCHARGE:

4.0.1

This element is used to formulate a comparison with a variant.

[...]

4.1.1

This element is used to define a comparison with an **OPTION (version)**.

[...]

OPERATOR under OPTION\_REF\_OP below PERCENTAGE\_SURCHARGE:

4.0.1

This element is used to define a comparison with a version.

[...]

4.1.1

This element is used to formulate a comparison with an **OPTION (variant)**.

[...]



MEASURE\_VALUE\_OP under PERCENTAGE\_SURCHARGE:

4.0.1

This element is used to check the dimension of a version using another dimension.

4.1.1

This element is used to check the dimension of an **OPTION (version)** using another dimension.

MEASURE\_INTERVAL under PERCENTAGE\_SURCHARGE:

4.0.1

This element is used to evaluate whether a version's dimension falls within or outside of an interval.

4.1.1

This element is used to evaluate whether an **OPTION (version's)** dimension falls within or outside of an interval.

Variants:

ITEM\_IDENTIFICATION:

4.0.1

[...]

The positions are eliminated and options passed down in the planning. The individual positions must then be positioned in the magnet planner in their order from left-to-right.

[...]

4.1.1

[...]

The positions are eliminated and OPTIONS passed down in the planning. The individual positions must then be positioned in the magnet planner in their order from left-to-right.

[...]

DECISION\_REF under PART\_LIST\_POS:

4.0.1

This element references a rule corresponding to the parts list position and thereby influences the dimensions and versions available for this position. A rule with a quantity factor must not be specified here. The rule is referenced via DECISION\_POS\_COUNT.

4.1.1

This element references a rule corresponding to the parts list position and thereby influences the dimensions and **OPTIONS (versions)** available for this position. A rule with a quantity factor must not be specified here. The rule is referenced via DECISION\_POS\_COUNT.



### CONFIGURATION\_MODE:

#### 4.0.1

A CONFIGURATION\_MODE value can be given for each PART\_LIST\_POS element:

- 0 = configuration allowed for non-inherited versions
- 1 = fully configurable
- 2 = configuration not permitted

The default value is 0.

#### 4.1.1

A CONFIGURATION\_MODE value can be given for each PART\_LIST\_POS element:

- 0 = configuration allowed for non-inherited **OPTIONS (versions)**
- 1 = fully configurable
- 2 = configuration not permitted

The default value is 0.

### SEQUENCE\_NO under OPTION:

#### 4.0.1

This attribute allows for the specification of a freely-defined sorting order.

#### 4.1.1

This attribute allows for the **OPTIONS (specification)** of a freely-defined sorting order.

### OPTION\_MEASURE under OPTION\_DEFINITION:

#### 4.0.1

This element is used to specify the values of versions that are expressed in a dimension (e.g. backrest or cushion height).

#### 4.1.1

This element is used to specify the values of **OPTIONS (versions)** that are expressed in a dimension (e.g. backrest or cushion height).

### FORMULA\_REF under SET\_FEATURE\_FIXED:

#### 4.0.1

This element is used to reference a formula for the calculation of versions.

#### 4.1.1

This element is used to reference a formula for the calculation of **OPTIONS (versions)**.



FORMULA\_REF under SET\_FEATURE:

4.0.1	This element is used to reference a formula for the calculation of versions.
4.1.1	This element is used to reference a formula for the calculation of <b>OPTIONS (versions)</b> .

FORMULA\_REF under SET\_FEATURE\_DEFAULT\_NULL:

4.0.1	This element is used to reference a formula for the calculation of versions.
4.1.1	This element is used to reference a formula for the calculation of <b>OPTIONS (versions)</b> .

Type key:

Introduction > TK\_TYPE (type key)

4.0.1	<p><b>Model code</b></p>  <p>IDML 4.1.0 XML schema documentation</p> <p>Introduction &gt; Model code</p> <p>This element is used to specify the model code:</p> <p>T_NEW_CATALOG/SERIES/SERIE/PRODUCT_GROUPS/PRODUCT_GROUP/ITEMS/ITEM/TYPE_KEY/TK_TY PE</p> <p>The following model codes have been defined:</p>
4.1.1	<p><b>TK_TYPE (Model code)</b></p>  <p>IDML 4.1.0 XML schema documentation</p> <p>Introduction &gt; <b>TK_TYPE (Model code)</b></p> <p>This element is used to specify the model code:</p> <p>T_NEW_CATALOG/SERIES/SERIE/PRODUCT_GROUPS/PRODUCT_GROUP/ITEMS/ITEM/TYPE_KEY/TK_TY PE</p> <p>The following <b>TK_TYPE (model codes)</b> have been defined:</p>



TYPE\_KEY:



4.0.1 This element is used to define the item's model code. The values for model codes can be found in a table in the introduction, section model code. The model code is specified precisely once for each item.
4.1.1 This element is used to define the item's <b>TK_TYPE (model code)</b> . The values for model codes can be found in a table in the introduction, section <b>TK_TYPE (model code)</b> . The <b>TK_TYPE (model code)</b> is specified precisely once for each item.

TK\_TYPE:

4.0.1 A value from row type in table "model code" in the introduction is entered here.
4.1.1 A value from row type in table " <b>TK_TYPE (model code)</b> " in the introduction is entered here.

Type key type:

Introduction > TK\_CLASS (Type Key Types)

4.0.1 <b>Model code types</b>  IDML 4.1.0 XML schema documentation Introduction > Model code types
4.1.1 <b>TK_CLASS (Model code types)</b>  IDML 4.1.0 XML schema documentation Introduction > <b>TK_CLASS (Model code types)</b>

TK\_CLASS:

4.0.1 A value from colum type in table "model codes" is entered here.
4.1.1 A value from column type in table " <b>TK_CLASS (model codes)</b> " is entered here.



Execution key:



Introduction > TK\_INFO (Execution key)

<p>4.0.1</p> <p><b>Variation code</b></p>  <p>IDML 4.1.0 XML schema documentation</p> <p>Introduction &gt; Variation code</p>
<p>4.1.1</p> <p><b>TK_INFO (Variation code)</b></p>  <p>IDML 4.1.0 XML schema documentation</p> <p>Introduction &gt; <b>TK_INFO (Variation code)</b></p>

TK\_INFO:

<p>4.0.1</p> <p>A value from column no. in table "Variation code" is entered here.</p>
<p>4.1.1</p> <p>A value from column no. in table "TK_INFO (Variation code)" is entered here.</p>

Language key:

<p>4.0.1</p> <p><b>Language key</b></p>  <p>IDML 4.1.0 XML schema documentation</p> <p>Introduction &gt; Language key</p>
<p>4.1.1</p> <p><b>ISO_LANGUAGE_ID (Language key)</b></p>  <p>IDML 4.1.0 XML schema documentation</p> <p>Introduction &gt; <b>ISO_LANGUAGE_ID (Language key)</b></p>

ISO\_LANGUAGE\_ID:

<p>4.0.1</p> <p>The language code defines the language in which the texts in the data pool were created. The ISO language code must be used.</p>
<p>4.1.1</p> <p>The <b>ISO_LANGUAGE_ID</b> defines the language in which the texts in the data pool were created. The ISO language code from the table '<b>ISO_LANGUAGE_ID (language code)</b>' is to be used.</p>

A = Added = Addition of new elements or attributes

C = Changed = Changes to existing elements, attributes or descriptive texts

R = Removed = Deletion of elements or attributes

F = Fixed = Error corrections to existing elements, attributes or descriptive texts



### FALL\_BACK\_LANGUAGE:

#### 4.0.1

This element corresponds to the language key that defines the language in which the texts in the database are created if a language identifier is missing for multilingual texts. The two-digit ISO language key must be used for this purpose. The specified fallback language must be included in the catalogue.

#### 4.1.1

This element corresponds to the **ISO\_LANGUAGE\_ID (language code)** that defines the language in which the data pool texts were created if no language identifier for multi-language texts is specified. The two-digit ISO language code from the table '**ISO\_LANGUAGE\_ID (language code)**' must be used. The specified fallback language must be included in the catalogue.

### Country key:

#### 4.0.1

##### Country code



IDML 4.1.0 XML schema documentation

Introduction > Country code

#### 4.1.1

##### **ISO\_COUNTRY\_ID (Country code)**



IDML 4.1.0 XML schema documentation

Introduction > **ISO\_COUNTRY\_ID (Country code)**



# Unreleased

Overview of all changes planned for version 4.2.0



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