

Specification
XOCD
Extended OFML Commercial Data

Version 4.3
1st revised version

Status: Final

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XOCD - Extended OFML Commercial Data

Version 4.3.1

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1 Introduction

XOCD is an extension format based on OCD, but which has the following additional features compared to OCD:

- Support of several series,
- Support of several price lists,
- Support of several text categories as well as
- Support of data filtering for different markets

Presently, XOCD is not a format to be used in planning and configuration tools. Its application is reserved for the processes of the product data collection and conversion.

The physical exchange format corresponds to the OCD format with the following differences. Only the tables and fields described in this document are supported. Furthermore the prefix of the data tables' file names is "xocd_".

All extended tables are preceded by the key **Program** which defines to which series they belong. This key corresponds to the value of the same name of the series registration according to the DSR description.

Alternatively, a wildcard (*) can be indicated as serial key in the following tables:

- CodeScheme,
- Property,
- PropertyValue,
- PropertyGroup,
- RelationObj,
- Relation,
- Price,
- Rounding,
- TaxScheme,
- Packaging as well as
- in all description tables.

Then these entries will be applied for all series. The serial related entries have priority over the comprehensive entries.

The price table is furthermore extended by one field to indicate a price list reference.

The text tables are additionally extended by one field to store a text category.

Furthermore, XOCD defines three new tables:

- the table of the series,
- the table of the price lists as well as
- the table of the text categories.

The following tables contain a separate field to enter information to support market specific filtering of the entries.

- Programs,
- Article,
- ArtBase,
- PropertyValue

A character string can be entered into this field. Its definite structure can be defined freely in projects and in dependence on the target application.

Further determinations concerning the data sets, their data types and field lengths can be found in the OCD specification 4.3.

2 The additional tables

2.1 The series tables

Table name: `Programs`

Obligatory table: yes

File name: `xocd_programs.csv`

| Nr. | Name | Key | Typ | Length | Required | Description |
|-----|-------------------|-----|------|--------|----------|----------------------------------|
| 1. | Program | X | Char | | X | Serial key |
| 2. | Program_ID | | Char | | X | com. serial key |
| 3. | Label | | Char | | X | Series designation |
| 4. | TransferFilterTag | | Char | | | Tag for export filter evaluation |

Remarks:

- The serial key normally defines the OFML package in which the data is distributed.
- The com. serial key defines a default sales group of articles of a package. Though the explicit sales group of each individual article is defined in the `Article` table (par.3.1).
- An optional designation of the key is intended in this and the two following tables. This is done by a direct text in a chosen language. Thus, no multilingualism is intended here.
- The values in field `Label` have to be unique.

2.2 The price list table

Table name: `PriceLists`

Obligatory table: yes

File name: `xocd_pricelists.csv`

| Nr. | Name | Key | Typ | Length | Required | Description |
|-----|-----------|-----|------|--------|----------|------------------------|
| 1. | PriceList | X | Char | | X | Price list key |
| 2. | Label | | Char | | X | Price list designation |

Remarks:

- The values in field `Label` have to be unique.

2.3 The text category table

Table name: `TextCategories`

Obligatory table: yes

File name: `xocd_textcategories.csv`

| Nr. | Name | Key | Typ | Length | Required | Description |
|-----|--------------|-----|------|--------|----------|----------------------------------|
| 1. | TextCategory | X | Char | | X | Text category key |
| 2. | Label | | Char | | X | Designation of the text category |

Remarks:

- The values in field `Label` have to be unique.

3 The extended tables

3.1 The article table

Table name: Article

Obligatory table: yes

File name: xocd_article.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|-----------------------|-----|------|--------|----------|---|-----|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | TransferFilterTag | | Char | | | Tag for export filter evaluation | |
| 3. | <i>ArticleID</i> | X | Char | 80 | X | Base article number | 1. |
| 4. | <i>ArticleType</i> | | Char | 1 | X | Article type: P - plain (not configurable) C - configurable | 2. |
| 5. | <i>ManufacturerID</i> | | Char | 16 | X | Sales manufacturer key | 3. |
| 6. | <i>SeriesID</i> | | Char | 16 | X | Sales productline key | 4. |
| 7. | <i>ShortTextID</i> | | Char | 80 | X | Short text number | 5. |
| 8. | <i>LongTextID</i> | | Char | 80 | | Long text number | 6. |
| 9. | <i>RelObjID</i> | | Num | | X | Relational object number (0 = no relational object) | 7. |
| 10. | <i>Discountable</i> | | Bool | 1 | X | Purchase prices discountable? | 9. |
| 11. | <i>OrderUnit</i> | | Char | 3 | | Order Unit: C62 - Piece MTR - Meter MTK - Square meter (UN/ECE Recommendation 20) | 10. |
| 12. | <i>SchemeID</i> | | Char | 30 | | Identifier of the codification scheme of final article number | 11. |

3.2 The property class table

Table name: PropertyClass

Obligatory table: yes²

File name: xocd_propertyclass.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|------------------|-----|------|--------|----------|--|----|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | <i>ArticleID</i> | X | Char | 80 | X | Base article number | 1. |
| 3. | <i>Position</i> | | Num | | X | Position of the property class | 2. |
| 4. | <i>Name</i> | X | Char | 50 | X | Identifier of the property class | 3. |
| 5. | <i>TextID</i> | | Char | 50 | | Text number | 4. |
| 6. | <i>RelObjID</i> | | Num | | X | Relational object number (0 = no relational object) | 5. |

²This table can be omitted, if the data contains only plain not configurable articles.

3.3 The property table

Table name: Property

Obligatory table: yes⁴

File name: xocd_property.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|----------------------|-----|------|--------|----------|--|-----|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | <i>PropertyClass</i> | X | Char | 50 | X | Identifier of the property class | 1. |
| 3. | <i>PropertyName</i> | X | Char | 50 | X | Identifier of the property | 2. |
| 4. | <i>Position</i> | | Num | | X | Position of the property | 3. |
| 5. | <i>TextID</i> | | Char | 80 | | Text number | 4. |
| 6. | <i>RelObjID</i> | | Num | | X | Relational object number (0 = no relational object)) | 5. |
| 7. | <i>Type</i> | | Char | 1 | X | Data type of values: C - Char N - Num L - Length (m) T - Text (multiline input) | 6. |
| 8. | <i>Digits</i> | | Num | | X | Number of digits (total) | 7. |
| 9. | <i>DecDigits</i> | | Num | | X | Number of decimal digits | 8. |
| 10. | <i>Obligatory</i> | | Bool | 1 | X | Entry obligatory? | 9. |
| 11. | <i>AddValues</i> | | Bool | 1 | X | Entry of additional values allowed? | 10. |
| 12. | <i>Restrictable</i> | | Bool | 1 | X | Value range restrictable using constraints? | 11. |
| 13. | <i>MultiOption</i> | | Bool | 1 | X | Multiple values selectable? | 12. |
| 14. | <i>Scope</i> | | Char | 2 | X | Scope: C - configurable RV - visible/not editable RG - internal (graphic relevant) R - internal | 13. |
| 15. | <i>TxtControl</i> | | Num | | X | Text control code | 14. |
| 16. | <i>HintTextID</i> | | Char | 80 | | Number of hint text | 15. |

⁴This table can be omitted, if the data contains only plain not configurable articles.

3.4 The article base table

Table name: Artbase

Obligatory table: no

File name: xocd_artbase.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|----------------------|----------|-------------|-----------|----------|---|-----------|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | TransferFilterTag | | Char | | | Tag for export filter evaluation | |
| 3. | <i>ArticleID</i> | <i>X</i> | <i>Char</i> | <i>80</i> | <i>X</i> | <i>Base article number</i> | <i>1.</i> |
| 4. | <i>PropertyClass</i> | <i>X</i> | <i>Char</i> | <i>50</i> | <i>X</i> | <i>Identifier of the property class</i> | <i>2.</i> |
| 5. | <i>PropertyName</i> | <i>X</i> | <i>Char</i> | <i>50</i> | <i>X</i> | <i>Identifier of the property</i> | <i>3.</i> |
| 6. | <i>PropertyValue</i> | <i>X</i> | <i>Char</i> | <i>30</i> | <i>X</i> | <i>Property value</i> | <i>4.</i> |

3.5 The property value table

Table name: PropertyValue

Obligatory table: yes⁶

File name: xocd_propertyvalue.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|----------------------|----------|-------------|-----------|----------|--|------------|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | TransferFilterTag | | Char | | | Tag for export filter evaluation | |
| 3. | <i>PropertyClass</i> | <i>X</i> | <i>Char</i> | <i>50</i> | <i>X</i> | <i>Identifier of the property class</i> | <i>1.</i> |
| 4. | <i>PropertyName</i> | <i>X</i> | <i>Char</i> | <i>50</i> | <i>X</i> | <i>Identifier of the property</i> | <i>2.</i> |
| 5. | <i>Position</i> | | <i>Num</i> | | <i>X</i> | <i>Position of the property value</i> | <i>3.</i> |
| 6. | <i>TextID</i> | | <i>Char</i> | <i>80</i> | | <i>Text number</i> | <i>4.</i> |
| 7. | <i>RelObjID</i> | | <i>Num</i> | | <i>X</i> | <i>Relational object number (0 = no relational object)</i> | <i>5.</i> |
| 8. | <i>IsDefault</i> | | <i>Bool</i> | <i>1</i> | <i>X</i> | <i>Proposal value?</i> | <i>6.</i> |
| 9. | <i>SuppressText</i> | | <i>Bool</i> | <i>1</i> | <i>X</i> | <i>Suppress printing the text?</i> | <i>7.</i> |
| 10. | <i>OpFrom</i> | <i>X</i> | <i>Char</i> | <i>2</i> | <i>X</i> | <i>Operator from</i> | <i>8.</i> |
| 11. | <i>ValueFrom</i> | <i>X</i> | <i>Char</i> | <i>30</i> | <i>X</i> | <i>Property value from</i> | <i>9.</i> |
| 12. | <i>OpTo</i> | <i>X</i> | <i>Char</i> | <i>2</i> | | <i>Operator to)</i> | <i>10.</i> |
| 13. | <i>ValueTo</i> | <i>X</i> | <i>Char</i> | <i>30</i> | | <i>Property value to</i> | <i>11.</i> |
| 14. | <i>Raster</i> | <i>X</i> | <i>Char</i> | <i>30</i> | | <i>Step range of an interval</i> | <i>12.</i> |
| 15. | <i>DateFrom</i> | | <i>Date</i> | <i>8</i> | | <i>Valid from</i> | <i>13.</i> |
| 16. | <i>DateTo</i> | | <i>Date</i> | <i>8</i> | | <i>Valid to</i> | <i>14.</i> |

⁶This table can be omitted, if the data contains only plain not configurable articles.

3.6 Property groups

Table name: Article2PropGroup

Obligatory table: no

File name: xocd_article2propgroup.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|-------------|-----|------|--------|----------|--|----|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | ArticleID | X | Char | 80 | X | Base article code | 1. |
| 3. | Position | | Int | | X | Position of the property group | 2. |
| 4. | PropGroupID | X | Char | 50 | X | Id of the property group in table PropertyGroup | 3. |
| 5. | TextID | | Char | 80 | | Label/Title of the property group. Text number in description table PropGroupText (3.16)) | 4. |

Remarks:

- In this table one or more property groups can be assigned to articles.
- The field Program must contain a serial key. The wildcard value * is not allowed in table Article2PropGroup.

Table name: PropertyGroup

Obligatory table: no

File name: xocd_propertygroup.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|---------------|-----|------|--------|----------|---|----|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | PropGroupID | X | Char | 50 | X | Id of the property group | 1. |
| 3. | Position | | Int | | X | Position of the property in the group | 2. |
| 4. | PropertyClass | X | Char | 50 | X | Identifier of the property class (3.3) | 3. |
| 5. | PropertyName | X | Char | 50 | X | Identifier of the property (3.3) | 4. |

Remarks:

- This table defines the properties of the property groups.
- In field Program the wildcard value * defines a product line independent property group.
- In field PropertyClass the wildcard value * can be used instead of the identifier of an existing property class. In this case a visible property from any of the article's property classes with the name from field PropertyName is shown. Please note: The names of all properties must be unique over all the article's property classes.⁷

⁷see Further remarks of the Property table in OCD specification.

3.7 The relational object table

Table name: RelationObj

Obligatory table: yes⁹

File name: xocd_relationobj.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|-----------------|-----|-------------|--------|----------|---|----|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | <i>RelObjID</i> | X | <i>Num</i> | | X | <i>Relational object number (> 0)</i> | 1. |
| 3. | <i>Position</i> | | <i>Num</i> | | X | <i>Position of the relation</i> | 2. |
| 4. | <i>RelName</i> | X | <i>Char</i> | 80 | X | <i>Identifier of the relation</i> | 3. |
| 5. | <i>Type</i> | X | <i>Char</i> | 1 | X | <i>Type of the relation:</i> 1 - <i>Pre-condition</i> 2 - <i>Selection condition</i> 3 - <i>Action</i> 4 - <i>Constraint</i> 5 - <i>Reaction</i> 6 - <i>Post-Reaction</i> | 4. |
| 6. | <i>Domain</i> | X | <i>Char</i> | 4 | X | <i>Domain:</i> C - <i>Configuration</i> P - <i>Price relation</i> PCKG - <i>Packaging relation</i> TAX - <i>Taxation</i> | 5. |

3.8 The relational knowledge table

Table name: Relation

Obligatory table: yes¹¹

File name: xocd_relation.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|---------------------|-----|-------------|--------|----------|--------------------------------------|----|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | <i>RelationName</i> | X | <i>Char</i> | 80 | X | <i>Identifier of the relation</i> | 1. |
| 3. | <i>BlockNr</i> | X | <i>Num</i> | | X | <i>Code block number/line number</i> | 2. |
| 4. | <i>CodeBlock</i> | | <i>Char</i> | 255 | X | <i>Code block</i> | 3. |

3.9 Value combination tables

The value combination tables are taken over from OCD without any modification. However, the file name must be preceded with the respective series in the form of <Program>_.

Globally usable tables are preceded with the sign \$ instead of the wildcard *, because the wildcard character * is not allowed in file names.

⁹This table can be omitted, if the data does not contain any logic or relational knowledge.

¹¹This table can be omitted, if the data does not contain any logic or relational knowledge.

3.10 The price table

Table name: Price

Obligatory table: yes¹³

File name: xocd_price.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|-------------------------|----------|-------------|-----------|------------|--|------------|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | PriceList | X | Char | 32 | X | Price list key | |
| 3. | <i>ArticleID</i> | <i>X</i> | <i>Char</i> | <i>80</i> | <i>X</i> | <i>Base article number</i> | <i>1.</i> |
| 4. | <i>Variantcondition</i> | <i>X</i> | <i>Char</i> | <i>80</i> | | <i>Variant condition</i> | <i>2.</i> |
| 5. | <i>Type</i> | <i>X</i> | <i>Char</i> | <i>1</i> | <i>X</i> | <i>Price type: S - Sales price P - Purchase price</i> | <i>3.</i> |
| 6. | <i>Level</i> | | <i>Char</i> | <i>1</i> | <i>X</i> | <i>Price level: B - Base price X - eXtra charge price D - Discount</i> | <i>4.</i> |
| 7. | <i>Rule</i> | | <i>Char</i> | <i>1</i> | | <i>Calculation rule</i> | <i>5.</i> |
| 8. | <i>TextID</i> | | <i>Char</i> | <i>80</i> | | <i>Text number</i> | <i>6.</i> |
| 9. | <i>PriceValue</i> | | <i>Num</i> | | <i>X</i> | <i>Price / amount</i> | <i>7.</i> |
| 10. | <i>FixValue</i> | | <i>Bool</i> | <i>1</i> | <i>X</i> | <i>Fix amount (vs. percentage)?</i> | <i>8.</i> |
| 11. | <i>Currency</i> | <i>X</i> | <i>Char</i> | <i>3</i> | <i>(X)</i> | <i>Currency of fix amount (ISO-4217)</i> | <i>9.</i> |
| 12. | <i>DateFrom</i> | <i>X</i> | <i>Date</i> | <i>8</i> | <i>X</i> | <i>Valid from</i> | <i>10.</i> |
| 13. | <i>DateTo</i> | <i>X</i> | <i>Date</i> | <i>8</i> | <i>X</i> | <i>Valid to</i> | <i>11.</i> |
| 14. | <i>RoundingID</i> | | <i>Char</i> | <i>50</i> | | <i>Identifier of a rounding rule</i> | <i>13.</i> |

Remarks:

- Using the wildcard (*) for field ArticleID indicates an eXtra charge price or discount as article independent. These prices are used by all articles in an OFML package. A variant condition has to be specified for article independent prices. An empty string is not allowed as variant condition in this case.
- An article independent price can also be defined as program independent by applying a wildcard (*) as serial key.
- Base prices can neither be article nor program independent.

¹³This table can be omitted, if the data is provided without any prices.

3.11 The rounding rule table

Table name: Rounding

Obligatory table: no

File name: xocd_rounding.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|-------------------|----------|-------------|-----------|----------|--|-----------|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | <i>RoundingID</i> | <i>X</i> | <i>Char</i> | <i>50</i> | <i>X</i> | <i>Identifier of the rounding rule</i> | <i>1.</i> |
| 3. | <i>Number</i> | <i>X</i> | <i>Num</i> | | <i>X</i> | <i>Position of the rounding</i> | <i>2.</i> |
| 4. | <i>Minimum</i> | | <i>Num</i> | | | <i>Least value to be rounded</i> | <i>3.</i> |
| 5. | <i>Maximum</i> | | <i>Num</i> | | | <i>Greatest value to be rounded</i> | <i>4.</i> |
| 6. | <i>Type</i> | | <i>Char</i> | <i>4</i> | <i>X</i> | <i>Rounding method: DOWN - round down UP - round up COM - commercial rounding ECOM - round to even (banker's rounding)</i> | <i>5.</i> |
| 7. | <i>Precision</i> | | <i>Num</i> | | <i>X</i> | <i>Rounding precision</i> | <i>6.</i> |
| 8. | <i>AddBefore</i> | | <i>Num</i> | | <i>X</i> | <i>Value added before rounding</i> | <i>7.</i> |
| 9. | <i>AddAfter</i> | | <i>Num</i> | | <i>X</i> | <i>Value added after rounding</i> | <i>8.</i> |

3.12 The taxation scheme tables

Table name: ArticleTaxes

Obligatory table: no

File name: xocd_articletaxes.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|-----------|-----|------|--------|----------|-----------------------------------|----|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | ArticleID | X | Char | 80 | X | Base article number | 1. |
| 3. | TaxID | X | Char | 50 | X | Identifier of the taxation scheme | 2. |
| 4. | DateFrom | | Date | 8 | | Valid from | 3. |
| 5. | DateTo | | Date | 8 | | Valid to | 4. |

Table name: TaxScheme

Obligatory table: no

File name: xocd_taxscheme.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|-------------|-----|------|--------|----------|---------------------------------|----|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | TaxID | X | Char | 50 | X | Identifier of the tax scheme | 1. |
| 3. | Country | X | Char | 2 | X | Country code (ISO-3166-1) | 2. |
| 4. | Region | X | Char | 3 | | Region code (ISO-3166-2) | 3. |
| 5. | Number | | Num | | X | Position in evaluation sequence | 4. |
| 6. | TaxType | X | Char | 8 | X | Identifier of the tax type | 5. |
| 7. | TaxCategory | | Char | 24 | X | Identifier of the tax category | 6. |

Remarks:

- Valid tax type and tax categories are documented in OCD Specification 4.3 Appendix H - *Tax Types and Tax Categories*

3.13 The code scheme table

Table name: CodeScheme

Obligatory table: no

File name: xocd_codescheme.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|----------------------|----------|-------------|-----------|----------|---|------------|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | <i>SchemeID</i> | <i>X</i> | <i>Char</i> | <i>30</i> | <i>X</i> | <i>Identifier of the scheme</i> | <i>1.</i> |
| 3. | <i>Scheme</i> | | <i>Char</i> | | | <i>Description of the scheme</i> | <i>2.</i> |
| 4. | <i>VarCodeSep</i> | | <i>Char</i> | <i>12</i> | | <i>Character string to separate base article number and variant code</i> | <i>3.</i> |
| 5. | <i>ValueSep</i> | | <i>Char</i> | <i>12</i> | | <i>Character string to separate property values</i> | <i>4.</i> |
| 6. | <i>Visibility</i> | | <i>Char</i> | <i>1</i> | | <i>Visibility of properties in variant code</i> <i>0 - only currently valid and visible</i> <i>1 - any configurable</i> | <i>5.</i> |
| 7. | <i>InVisibleChar</i> | | <i>Char</i> | <i>1</i> | | <i>Replacement character for invalid or invisible properties</i> | <i>6.</i> |
| 8. | <i>UnselectChar</i> | | <i>Char</i> | <i>1</i> | | <i>Replacement character for unselected optional or restrictable properties</i> | <i>7.</i> |
| 9. | <i>Trim</i> | | <i>Bool</i> | <i>1</i> | <i>X</i> | <i>Trim property values?</i> | <i>8.</i> |
| 10. | <i>MO_Sep</i> | | <i>Char</i> | <i>12</i> | | <i>Character string to separate values of multivalued properties</i> | <i>9.</i> |
| 11. | <i>MO_Bracket</i> | | <i>Char</i> | <i>24</i> | | <i>Characters for brackets around multivalued properties (2 * N)</i> | <i>10.</i> |

3.14 The packaging table

Table name: Packaging

Obligatory table: nein

File name: xocd_packaging.csv

| No. | Name | Key | Type | Length | Required | Description | |
|-----|-------------------------|----------|-------------|-----------|------------|--|------------|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | <i>ArticleID</i> | <i>X</i> | <i>Char</i> | <i>80</i> | <i>X</i> | <i>Base article number</i> | <i>1.</i> |
| 3. | <i>Variantcondition</i> | <i>X</i> | <i>Char</i> | <i>80</i> | | <i>Variant condition</i> | <i>2.</i> |
| 4. | <i>Width</i> | | <i>Num</i> | | | <i>Width of the packaging unit</i> | <i>3.</i> |
| 5. | <i>Height</i> | | <i>Num</i> | | | <i>Height of the packaging unit</i> | <i>4.</i> |
| 6. | <i>Depth</i> | | <i>Num</i> | | | <i>Depth of the packaging unit</i> | <i>5.</i> |
| 7. | <i>MeasureUnit</i> | | <i>Char</i> | <i>3</i> | <i>(X)</i> | <i>Unit of measurement of dimensions 4 to 6</i> | <i>6.</i> |
| 8. | <i>Volume</i> | | <i>Num</i> | | | <i>Volume of the packaging unit</i> | <i>7.</i> |
| 9. | <i>VolumeUnit</i> | | <i>Char</i> | <i>3</i> | <i>(X)</i> | <i>Unit of measurement of the volume</i> | <i>8.</i> |
| 10. | <i>TaraWeight</i> | | <i>Num</i> | | | <i>Weight of the packaging unit</i> | <i>9.</i> |
| 11. | <i>NetWeight</i> | | <i>Num</i> | | | <i>Weight of the individual article</i> | <i>10.</i> |
| 12. | <i>WeightUnit</i> | | <i>Char</i> | <i>3</i> | <i>(X)</i> | <i>Unit of measurement of the weights 10 bis 11</i> | <i>11.</i> |
| 13. | <i>ItemsPerUnit</i> | | <i>Num</i> | | | <i>Number of articles per packaging unit</i> | <i>12.</i> |
| 14. | <i>PackUnits</i> | | <i>Num</i> | | | <i>Number of packaging units, which are used for the article</i> | <i>13.</i> |

Remarks:

- Article independent packaging data records can be defined using the wildcard (*) as article number. Article independent packaging data is used by all articles in an OFML package. A variant condition has to be specified for article independent packaging data. An empty string is not allowed as variant condition in this case.
- Article independent packaging data can also be defined as program independent by applying a wildcard (*) as serial key.
- The valid values to define units of measurements of dimensions, volume and weights are defined in OCD specification. These values correspond to the Common Code of UN/ECE Recommendation 20.¹⁴.
- Unit of measurements have to be specified in a record, if it contains the according measured values.

¹⁴www.unece.org/cefact/rec/rec20en.htm

3.15 The classification table

Table name: `Classification`

Obligatory table: no

File name: `xocd_classification.csv`

| No. | Name | Key | Type | Length | Required | Description | |
|-----|------------------|----------|-------------|-----------|----------|--|-----------|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | <i>ArticleID</i> | <i>X</i> | <i>Char</i> | <i>80</i> | <i>X</i> | <i>Base article number</i> | <i>1.</i> |
| 3. | <i>System</i> | <i>X</i> | <i>Char</i> | <i>32</i> | <i>X</i> | <i>Name of the classification system</i> | <i>2.</i> |
| 4. | <i>ClassID</i> | | <i>Char</i> | <i>64</i> | <i>X</i> | <i>ID of the class of the article</i> | <i>3.</i> |

Remarks:

- Each article can be classified using multiple different classifications systems.
- Currently the following classification systems are allowed:

| System | Explanation |
|--------------------------------|---|
| <code>ECLASS-<i>x.y</i></code> | Classification according to the eClass Model with indication of the version. The suffix <i>x.y</i> has to be replaced by the used eClass Major.Minor version: e.g. <code>ECLASS-12.0</code> |
| <code>UNSPSC</code> | Classification according to the standard UN/SPSC |

3.16 The description tables

All text tables (see OCD description) have the same structure:

| No. | Name | Key | Type | Length | Required | Description | |
|-----|-----------------|----------|-------------|-----------|----------|-----------------------------|-----------|
| 1. | Program | X | Char | 32 | X | Serial key | |
| 2. | TextCat | X | Char | 1 | X | Text category key | |
| 3. | <i>TextID</i> | <i>X</i> | <i>Char</i> | <i>80</i> | <i>X</i> | <i>Text number</i> | <i>1.</i> |
| 4. | <i>Language</i> | <i>X</i> | <i>Char</i> | <i>2</i> | <i>X</i> | <i>Language (ISO 639-1)</i> | <i>2.</i> |
| 5. | <i>LineNr</i> | <i>X</i> | <i>Num</i> | | <i>X</i> | <i>Line number</i> | <i>3.</i> |
| 6. | <i>TextLine</i> | | <i>Char</i> | <i>80</i> | <i>X</i> | <i>Text line</i> | <i>5.</i> |

3.17 The version information table

Table name: **Version**

Obligatory table: no

File name: `xocd_version.csv`

The version information table corresponds exactly to the OCD table of the same name.

Modification history

Version 4.3.1

- New: Includes the classification table `xocd_classification.csv` . (3.15).

Version 4.3

- New features introduced with OCD 4.3
 - New: New optional Property Groups can be used to define a new view / order of properties for each article. (3.6)
 - New: Relations of the relation object domain `TAX` can calculate a tax category depending on the specific article variants. (3.7)
 - Changed: Language definition value `SAP_LOVC` replaces former values `SAP_3_1` and `SAP_4_6` in version information table (3.17).
- Max. length of property class names increased from 30 to max. 50 characters. (3.3, 3.2, 3.4, 3.5).

Version 4.2

- New Fields `DateFrom`, `DateTo` in property value table to define an optional period of validity.

Version 4.1

- General: Update according new features introduced with OCD 4.1
- Relation object table: New relation type Post-Reaction
- Property table: New property type 'T' allowing users to enter multiline text
- Packaging table: Supports article and OFML package independent packaging data
- Packaging table: More precise specification regarding the variant condition and units of measurements
- Price table: More precise specification regarding the variant condition
- Taxation scheme table: A reference to OCD specification where tax types and categories added

Version 4.0.2

- New table: `Packaging`
- New relation domain: `PCKG`
- Refinements of tables: file names, obligation
- Subsections reorder to keep logical coherent tables together.

Version 4.0.1

- Refinement: Maximum lengths of fields.
- Refinement: The column Key represents the Primary Key of a data table.

Version 4.0

- General: Update according new features introduced with OCD 4.0
- General: Support for information for market specific filtering of product lines, articles, property values and article base
- New Tables: `Rounding`, `ArticleTaxes` und `TaxScheme`
- Table `CodeScheme`: new fields `MO_Sep`, `MO_Bracket`
- Table `RelationObj`: new fields `Position`
- Table `PropertyValue`: new fields `TransferFilterTag`, `Raster`
- Table `ArtBase`: new fields `TransferFilterTag`
- Table `Property`: new fields `MultiOption`, `HintText`
- Table `Article` : new fields `TransferFilterTag`, `Discountable`
- Table `Article` : field `FastSupply` removed
- Table `Programs`: new field `TransferFilterTag`
- Tables removed: `Identification`, `Classification`, `ClassificationData`, `Packaging` und `Set`

Version 3.0.1

- Table `Price`: Wildcard entries (*) for field `Program` and `ArticleID` refined.

Version 3.0

Formal update according to OCD 3.0

Version 2.1.2

Incompatible extension

- Table `Programs`: renaming of the obligatory field `CProgram` to `Program_ID`.
- General: precision of the applicability of the wildcard entries

Version 2.1.1

Incompatible extension

- Table **Programs**: new obligatory field.
- Wildcard entries (*) for field **Program** in the corresponding tables possible.

Version 2.1(.0)

Initial release