

# BMDG<sup>3.0</sup>

high quality product data

## **BUILDING MASTER DATA GUIDELINE**

**Version 3.0**

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**DETAILED EXPLANATIONS**

**[www.building-masterdata.com](http://www.building-masterdata.com)**

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Building digital competence

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# 1 Introduction

## Together, it's more efficient!

Welcome to the **Building Master Data Guideline (BMDG)**, developed by ARGE. It establishes the international standard for exchanging article master data between manufacturers and wholesalers within the HVAC and building services sector. Together, we can optimise the exchange of master data, ensuring a highly efficient process and complete, up-to-date information for both wholesalers and manufacturers.

**Manufacturers** can easily obtain membership and find more information [here](#). Get your membership now to shape digitisation, product management as well as standards and formats!

**Wholesalers** can access vital data simply by logging in. Don't miss out on the opportunity to enhance your operations and stay ahead in the market!

## Key components of efficient data exchange

The BMDG, as a guideline, is just one of three key components that make data exchange between manufacturers and wholesalers as efficient as possible. Here is a closer look at each component:

- **Format:** A format is a structured way of organising and storing data. The BMDG specifies eight distinct csv files to structure and store article information, ensuring it is consistently organised and easily interpretable.
- **Guideline:** The guideline, BMDG, ensures that all distribution levels maintain a shared understanding of the content by clearly defining data attributes. It specifies the required information for each article and how the corresponding data should be formatted. This goes beyond technical interfaces to ensure comprehensive and accurate data content.
- **Platform:** The platform, [building-masterdata.com](https://building-masterdata.com), serves as the central hub for manufacturers to upload and distribute their article master data according to BMDG standards. By consolidating data from multiple manufacturers, it provides wholesalers and other market partners with efficient access to high-quality, standardised, and up-to-date information from a single source.

## Get more information

Download the guideline, marketing materials, factsheets, and more [here](#). Everything you need for the BMDG is just a click away!

For further assistance, you can also contact a member of the ARGE team directly via email at [info@arge.de](mailto:info@arge.de).

## 2 General requirements for data delivery

The data delivery for BMDG consists of eight different tables in csv format. All tables have to be delivered with every data delivery. If no data is supplied in a table, the table has to be delivered empty, only filled in with the two header lines. The country-specific data depends on the country the data delivery is planned for.

There are certain tables where data is mandatory (M). Data in other tables is optional (O).

The header table can only contain one line of data. The article table and the description table can only contain one line per article. The other tables can contain multiple lines per article.

Table	Required	Single / Multiple
Header.csv	M	Only one line
Article.csv	M	Single
Description.csv	O	Single
PackagingUnits.csv	O	Multiple
Attachments.csv	O	Multiple
Specifications.csv	M	Multiple
Relations.csv	O	Multiple
Country-specific.csv	O	Multiple

The requirements for filling in a line entry are listed below.

Required	Abbreviation	Description
Mandatory	M	Mandatory (M) means that this element / field has to be filled in for every record (line entry).
Conditional	C	Conditional (C) means that this element has to be filled in under certain conditions. These are named in the corresponding description.
Optional	O	Optional (O) means that this element can be filled in.
Country-specific requirements	C* / O*	The conditions are country-specific and named in the corresponding description under * Note:.

The requirements for format and length / details are listed below.

Format type	Description
Boolean	true / false
Date	Based on ISO 8601: YYYY-MM-DD (2020-01-01) Valid range: 2000-01-01 - 2099-12-31
Number	x,y means a total of x places with y decimal places x,0 describes a whole number without decimal places Valid characters: 0-9 Decimal separator: Comma (,)
GTIN	13 or 14 numeric digits with a valid check digit
String	Character set: UTF-8
Value list	See chapter <a href="#">6 Country-specific value lists</a>

Other fixed values	Description
Header line	Each table must contain two header lines. The first line states the column names and the second line states the unique identifiers.
Line separator	CR LF
Field separator	Semicolon (;)
Text isolation characters / escape characters	Quotation marks ("")
Space	
Decimal separator	Comma (,)
Thousands separator	Not used
HTML tags	Listed below
Paragraph, single line break	<p>,  
Bold, italic, underline	<b>, <strong>, <i>, <u>
Ordered list, unordered list, list item	<ol>, <ul>, <li>
HTML headings	<h1>, <h2>, <h3>, <h4>
Tables	<table>, <tr>, <th>, <td>

Example extract of Header.csv:

SUPPLIER_NAME	SUPPLIER_GLN	SUPPLIER_DUNS	CATALOGUE_ID	CATALOGUE_NAME
<b>MDF0001</b>	<b>MDF0002</b>	<b>MDF0003</b>	<b>MDF0004</b>	<b>MDF0005</b>
Factory1	1234567890123	123456789	123:FR:SUPPLIER_STANDARD	SUPPLIER_STANDARD

### 3 Data validation

When uploading data deliveries on OXOMI, the DAVID checking tool checks a larger list of rules according to the attribute definitions in this document.

The list of test rules for the individual standards can be viewed online in OXOMI under this link <https://oxomi.com/system/guidelines>.

## 4 Tables and attributes

### 4.1 Header

The header data are referred to as "administrative data" for the master data server. They contain the technical information required for the entire data delivery process. The data set includes information about the manufacturer as well as the article catalogue.

This table is used to present general information about the data delivery. This table has to be delivered with every data delivery and has to be filled in. Elements that are mandatory (M) have to be filled in per line. Only one line with data is allowed.

Name	Unique identifier	Required	Format	Length / Details	Description	Example
SUPPLIER_NAME	MDF0001	M	String	50	Company name or legal name of the manufacturer.	Factory1
SUPPLIER_GLN	MDF0002	M	Number	13,0	The GLN is the Global Location Number of the supplier (formerly known as ILN - International Location Number). To obtain a GLN number, please contact your local GS1 organisation. Recommendation: Use the GLN which is also used for EDI (order to pay exchange). This could be a local or headquarter GLN depending on point of origin.	1234567890123
SUPPLIER_DUNS	MDF0003	O	Number	9,0	The D-U-N-S® number (Data Universal Numbering System - <a href="http://www.dnb.com">www.dnb.com</a> ) is a nine-digit numeric code to uniformly identify companies all over the world. The number has to be delivered without formatting.	123456789
CATALOGUE_ID	MDF0004	M	String	35	Unique catalogue identification which controls the assignment to manufacturer, country and assortment in OXOMI. It consists of the ARGE ID of the supplier, ISO 3166-1 alpha-2 country code and original ARGE catalogue name, usually supplier abbreviation and assortment range. Those three entries are linked with colons. The CATALOGUE_ID has to be requested at ARGE and remains unchanged for all data deliveries throughout the multi-year lifecycle of the catalogue.	123:FR:SUPPLIER_STANDARD
CATALOGUE_NAME	MDF0005	M	String	100	Descriptive name of the catalogue. It is used to differentiate between multiple assortments from the same supplier. The CATALOGUE_NAME is the last part of the CATALOGUE_ID and remains unchanged for all data deliveries throughout the multi-year lifecycle of the catalogue.	SUPPLIER_STANDARD
DATA_DELIVERY_NAME	MDF0400	M	String	100	Descriptive name of the data delivery. This name has to be stated identically in the upload interface on OXOMI and is used to name the data delivery on <a href="http://www.building-masterdata.com">www.building-masterdata.com</a> .	Supplier Name Delivery France 2023
DATA_DELIVERY_DESCRIPTION	MDF0401	O	String	1000	Further information on the data delivery. If filled in, the information has to be stated identically in the upload interface on OXOMI.	Price increase 5%
DATA_DELIVERY_VALIDITY_START	MDF0006	M	Date	10 (YYYY-MM-DD)	The start of validity indicates the date from which the data delivery shall be valid. Note: Any article specific date (MDF0034 VALID_FROM and MDF0035 ARTICLE_EXPIRY_DATE) has priority.	2020-01-01
DATA_DELIVERY_VALIDITY_END	MDF0402	O	Date	10 (YYYY-MM-DD)	The expected (not binding) end of validity of the data delivery. A new data delivery for the catalogue overrides the validity end when the new delivery becomes valid.	2020-12-31
COUNTRY	MDF0007	M	Value list <a href="#">5.2</a>	2 (Countries)	Country for which the data delivery is intended (according to ISO 3166-1 alpha-2, stated in two capital letters).	FR

Name	Unique identifier	Required	Format	Length / Details	Description	Example
LANGUAGE	MDF0008	M	Value list <a href="#">5.5</a>	2 (Languages)	Basic language of the data delivery (according to ISO 639-1, stated in two lower case letters).	fr
BMDG_VERSION	MDF0009	M	String	10	Version of the BMDG data standard upon which the data delivery is based, stated as BMDGx.y.	BMDG1.0
CATALOGUE_VERSION	MDF0011	O*	String	7	Version number of the catalogue. Format is "Majorversion.Minorversion". * Note: Mandatory for 2ba data delivery.	2.1
MEASUREMENT_SYSTEM	MDF0500	M	Value list <a href="#">5.3</a>	8 (Measurement system)	Indication of whether the lengths and weight measurements used in the data delivery are specified in metric or imperial units. METRIC: All length measurements in MMT, all weight measurements in KGM, volume measurement in DQM IMPERIAL: All length measurements in INH, all weight measurements in LBR, volume measurement in INQ	METRIC
BUYER_NAME	MDF0012	O*	String	50	Name of the buying company or organisation or data pool. * Note: Mandatory for 2ba data delivery.	Recipient XYZ
GENERATION_DATE	MDF0013	O*	Date	10 (YYYY-MM-DD)	Date of when the catalogue is generated at the manufacturer. * Note: Mandatory for 2ba data delivery.	2020-01-01
NAME_OF_DATA_CREATOR	MDF0290	O*	String	50	First name of the person responsible for processing the data. In uppercase and lowercase letters, with accent. * Note: Mandatory for FAB-DIS data delivery.	Pierre
SURNAME_OF_DATA_CREATOR	MDF0291	O*	String	50	Surname of the person responsible for processing the data. Name in capital letters. * Note: Mandatory for FAB-DIS data delivery.	DUPONT
EMAIL_OF_DATA_CREATOR	MDF0292	O*	String	100	Email address of the person responsible for the processing of the data. * Note: Mandatory for FAB-DIS data delivery.	pdupond@delt.com
TEST_CONSTANT	MDF0403	M	Fixed value		Fixed test constant which must be stated in order to check for the correct UTF-8 character set. Fixed value: 1234567890abcdefghijklmnopqrstuvwxyzüöäÜÖÄÜß@€	

## 4.2 Article

This table is used to present general information about the articles. This table has to be delivered with every data delivery and has to be filled in. Elements that are mandatory (M) have to be filled in per line. Only one line per article is allowed.

Name	Unique identifier	Required	Format	Length / Details	Description	Example
<b>SUPPLIER_ARTICLE_NUMBER</b>	<b>MDF0021</b>	M	String	35	Contains the article number defined by the supplier. It is most important for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.  → further information 7.1 Article numbers	123456 JKS300062011 104.040.53B-01
<b>CATALOGUE_ARTICLE_NUMBER</b>	<b>MDF0404</b>	O	String	35	Additional supplier article number, e.g., as used in print media and catalogues.  → further information 7.1 Article numbers	123 456
<b>ARTICLE_TYPE</b>	<b>MDF0405</b>	M	Value list <a href="#">5.8</a>	3 (Article Type)	Type of article. Classification according to usage.  → further information 7.2 Article type	STD
<b>ARTICLE_STATUS</b>	<b>MDF0501</b>	M	Value list <a href="#">5.9</a>	20 (Article status)	States the current status of the article in the product life cycle.  → further information 7.3 Article status	ACTIVE
<b>SUPPLIER_GTIN</b>	<b>MDF0022</b>	C	GTIN	14	GTIN of the supplier. The GTIN describes an unambiguous article key (by GS1). Conditionally mandatory if there is a GTIN for the article.  → further information 7.1 Article numbers	4048797109712
<b>TEXT_150</b>	<b>MDF0406</b>	M	String	150*	This is an article description with a maximum length of 150 characters. It could be the same as the combination of MDF0100 TEXT_40_1 plus MDF0101 TEXT_40_2. The goal is to have unique texts. Exception: Discontinued articles and their successors may have the same article texts. In case of spare parts, the article number can be included in the text to ensure uniqueness. * Note: Different text length for 2ba data delivery: Unique text with 70 digits (CS_CODE NL_NORMAL_TEXT_70). Different text length for FAB-DIS data delivery: 80 digits.	Viega pipe Prestabo 1106 6170.11 in 725mm x DN40/50 chromium-plated
<b>BRAND_NAME</b>	<b>MDF0023</b>	M	String	50	Name of the brand of this article. It is used to show similarities between articles.	Geberit TECE Viega
<b>PRODUCT_SERIES</b>	<b>MDF0024</b>	O	String	200	Grouping of articles within a brand. It is used to show similarities between articles.	Renova Plan TECEloop Profipress
<b>PRODUCT_MODEL_ID</b>	<b>MDF0407</b>	O	String	50	Grouping of articles that differ by specific characteristics into a product model. Typically shown together on one catalogue page. PRODUCT_MODEL_ID contains the ID to MDF0502 PRODUCT_MODEL_DESCRIPTION.	PRO_1737077 4711 2416

Name	Unique identifier	Required	Format	Length / Details	Description	Example
PRODUCT_MODEL_DESCRIPTION	MDF0502	O	String	256	Description of the product model. One specific MDF0407 PRODUCT_MODEL_ID has only one description. Recommendation: If MDF0407 PRODUCT_MODEL is filled in, please describe the product model here. Further variations can be listed by using specification system VARIATION (for further information, see chapter 7.10 Additional values).	Geberit Renova Plan washbasin TECEloop glass Profipress elbow 90°
COMMODITY_GROUP_ID	MDF0026	O*	String	20	The commodity group assigns the article to a specified upper group structure (e.g., bathtub, fitting, radiator) based on its intended use. * Note: Mandatory for FAB-DIS data delivery.	CG1
COMMODITY_GROUP_DESCRIPTION	MDF0027	C*	String	100	Description of the commodity group that should be unique. One specific MDF0026 COMMODITY_GROUP_ID has only one description. Conditionally mandatory if MDF0026 COMMODITY_GROUP_ID is filled in. * Note: Mandatory for FAB-DIS data delivery.	car
PRODUCT_GROUP_ID	MDF0028	O	String	20	After categorisation under a commodity group, the product group facilitates a finer classification of the article, defined by the supplier.	PG1
PRODUCT_GROUP_DESCRIPTION	MDF0029	C	String	100	Description of the product group that should be unique. One specific MDF0028 PRODUCT_GROUP_ID has only one description. Conditionally mandatory if MDF0028 PRODUCT_GROUP_ID is filled in.	small family car
DISCOUNT_GROUP_ID	MDF0030	M	String	20	The discount group is used to link conditions to an article, defined by the supplier. Only group information is to be transmitted, no conditions.	DG1
DISCOUNT_GROUP_DESCRIPTION	MDF0031	M	String	100	Description of the discount group that should be unique. One specific MDF030 DISCOUNT_GROUP_ID has only one description.	Description of the discount group
BONUS_GROUP_ID	MDF0032	O	String	20	The bonus group is used to link conditions to an article, defined by the supplier. Only group information is to be transmitted, no conditions.	BG1
BONUS_GROUP_DESCRIPTION	MDF0033	C	String	100	Description of the bonus group that should be unique. One specific MDF0032 BONUS_GROUP_ID has only one description. Conditionally mandatory if MDF0032 BONUS_GROUP_ID is filled in.	Description of the bonus group
VALID_FROM	MDF0034	O*	Date	10 (YYYY-MM-DD)	Date from which the article is expected to be available. The date only needs to be filled in if it differs from MDF0006 DATA_DELIVERY_VALIDITY_START. Any article-specific data has priority over the data delivery validity. The validity is particularly important for the ARTICLE_STATUS 'NEW'. It is non-binding and can be changed in subsequent data deliveries. * Note: Mandatory for FAB-DIS data delivery.	2020-01-01
ARTICLE_EXPIRY_DATE	MDF0035	O	Date	10 (YYYY-MM-DD)	Indication of the expected expiry date of the article which means the expected phase-out date. It is not the end of validity of the price but the article has limited delivery availability. Depending on clearance sales, stocks may be depleted sooner or later.	2020-02-17

Name	Unique identifier	Required	Format	Length / Details	Description	Example
STANDARD_DELIVERY_PERIOD	MDF0040	O*	Number	3,0 (1-999)	Number of working days (excl. national holidays and weekends) between order creation and arrival / availability of the goods at the market partner. It is a non-binding period of time and does not apply to special orders and forward orders. No legal obligation for actual delivery arises from this date. Recommendation: For services, use proxy "999". * Note: Mandatory for FAB-DIS data delivery.	21
PRICE_QUANTITY	MDF0041	C	Number	8,0	A multiple of the order unit (MDF0063 ORDER_UNIT) indicating quantity to which all the specified prices refer. Conditionally mandatory if MDF0043 GROSS_LIST_PRICE_EXCL_TAX and / or MDF0044 REC_RETAIL_PRICE_INCL_TAX are filled in.	1
PRICE_ON_REQUEST	MDF0042	M	Boolean	true / false	Indicates whether a price will be transmitted on request. If the article has no fixed price, submit value "true".  → further information 7.4 Prices	true
GROSS_LIST_PRICE_EXCL_TAX	MDF0043	C	Number	15,2	The gross list price is the general price given by the supplier excluding sales tax. Conditionally mandatory if MDF0042 PRICE_ON_REQUEST is "false".  → further information 7.4 Prices	11,26
REC_RETAIL_PRICE_INCL_TAX	MDF0044	O	Number	15,2	The non-binding recommended retail price including sales tax.  → further information 7.4 Prices	15,27
PRICE_CURRENCY	MDF0045	C	Value list <a href="#">5.6</a>	3 (Currency)	Currency of the prices, preferably in respective national currency. Conditionally mandatory if MDF0043 GROSS_LIST_PRICE_EXCL_TAX and / or MDF0044 REC_RETAIL_PRICE_INCL_TAX are filled in.	EUR
PRICE_UNIT	MDF0048	O	Value list <a href="#">5.1</a>	3 (Units)	Unit of the price. The PRICE_UNIT is the same as the MDF0063 ORDER_UNIT.	PCE
TAX	MDF0046	O*	Value list <a href="#">5.10*</a>	20 (Tax)	Indication of the tax category. * Note: Mandatory for FAB-DIS data delivery. Mandatory for 2ba data delivery if "EXEMPT" from VAT. For 2ba data delivery, only the values "FULL" and "EXEMPT" are allowed.	FULL
EXPORTABLE_INDICATOR	MDF0409	M	Boolean	true / false	Indicates whether this article is approved for export. For exportable articles (EXPORTABLE_INDICATOR is "true"), MDF0047 CUSTOMS_TARIFF_NUMBER and MDF0049 COUNTRY_OF_ORIGIN must be filled in.	true
CUSTOMS_TARIFF_NUMBER	MDF0047	C	Number	8,0	Commodity code required for customs (import / export) and Intrastat declarations. The first six digits are internationally harmonised (Harmonized System – HS code) by all WTO countries. Use most current version published for custom numbers. Conditionally mandatory if MDF0409 EXPORTABLE_INDICATOR is "true". Recommendation: For exportable services and software, use the number "000000". For UK, their own eight-digit number is recommended.	841370 84137051

Name	Unique identifier	Required	Format	Length / Details	Description	Example
<b>COUNTRY_OF_ORIGIN</b>	<b>MDF0049</b>	C	Value list <a href="#">5.2</a>	2 (Countries)	The country of origin is the country where the article was manufactured which means the country where the greatest increase in value occurred. In case of doubt, the country where the last significant processing was completed. Description of the country according to ISO 3166-1 alpha-2 written in capital letters. The value list codes have been expanded with EU and ZZ, explanations in the value list. Conditionally mandatory if MDF0409 EXPORTABLE_INDICATOR is "true".	DE
<b>NET_WIDTH</b>	<b>MDF0050</b>	O	Number	16,3	Net width of the content of one article without packaging. Typically corresponds to the width in SAP. If the MDF0063 ORDER_UNIT is not PCE, this measure refers to the smallest logistical unit that corresponds to a piece, according to MDF0410 CONVERSION_TO_PIECE and MDF0411 CONVERSION_TO_PIECE_UNIT. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	108
<b>NET_DEPTH</b>	<b>MDF0052</b>	O	Number	16,3	Net depth of the content of one article without packaging. Typically corresponds to the length in SAP. If the MDF0063 ORDER_UNIT is not PCE, this measure refers to the smallest logistical unit that corresponds to a piece, according to MDF0410 CONVERSION_TO_PIECE and MDF0411 CONVERSION_TO_PIECE_UNIT. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	201
<b>NET_HEIGHT</b>	<b>MDF0054</b>	O	Number	16,3	Net height of the content of one article without packaging. Typically corresponds to the height in SAP. If the MDF0063 ORDER_UNIT is not PCE, this measure refers to the smallest logistical unit that corresponds to a piece, according to MDF0410 CONVERSION_TO_PIECE and MDF0411 CONVERSION_TO_PIECE_UNIT. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	65
<b>NET_WEIGHT</b>	<b>MDF0056</b>	O	Number	16,3	Net weight of the content of one article without packaging. If the MDF0063 ORDER_UNIT is not PCE, this measure refers to the smallest logistical unit that corresponds to a piece, according to MDF0410 CONVERSION_TO_PIECE and MDF0411 CONVERSION_TO_PIECE_UNIT. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	0,73
<b>NET_VOLUME</b>	<b>MDF0503</b>	O	Number	16,3	Net volume of the content of one article without packaging. If the article does not have an exact volume, the volume of an imaginary cuboid around the unpackaged article can be specified. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	1,411
<b>ORDER_UNIT</b>	<b>MDF0063</b>	M	Value list <a href="#">5.1</a>	3 (Units)	Unit in which the article can be ordered. It is equal to the base item. It is only possible to order multiples of this unit. The ORDER_UNIT of the article has to remain unchanged. Example 1: One elbow pipe (ORDER_UNIT=PCE). Example 2: One box of screws. The box contains 100 screws (ORDER_UNIT=PCE). Example 3: One roll of tape. The roll contains 50 metres of tape (ORDER_UNIT=PCE).  → further information 7.5 Order details (Explanation of difficult cases)	MTK

Name	Unique identifier	Required	Format	Length / Details	Description	Example
<b>NO_CU_PER_OU</b>	<b>MDF0058</b>	M	Number	16,3	Number of MDF0060 CONTENT_UNIT contained in the MDF0063 ORDER_UNIT. Example 1: One elbow pipe (NO_CU_PER_OU=1). Example 2: One box of screws. The box contains 100 screws (NO_CU_PER_OU=100). Example 3: One roll of tape. The roll contains 50 metres of tape (NO_CU_PER_OU=50).	100
<b>CONTENT_UNIT</b>	<b>MDF0060</b>	M	Value list <a href="#">5.1</a>	3 (Units)	Unit of the article related to the MDF0063 ORDER_UNIT by MDF0058 NO_CU_PER_OU. Often the same unit. Example 1: One elbow pipe (CONTENT_UNIT=PCE). Example 2: One box of screws. The box contains 100 screws (CONTENT_UNIT=PCE). Example 3: One roll of tape. The roll contains 50 metres of tape (CONTENT_UNIT=MTR).	PCE
<b>CONVERSION_TO_PIECE</b>	<b>MDF0410</b>	O	Number	16,3	CONVERSION_TO_PIECE is useful for articles where MDF0063 ORDER_UNIT is not PCE (e.g., MTR, CMK, CMQ, KGM). It defines the smallest logistical unit that corresponds to a piece (like one pipe, one bottle). It may be used to define set articles if one set is also equal to one (or more) MDF0063 ORDER_UNIT. This measure refers to the number of MDF0411 CONVERSION_TO_PIECE_UNIT. E.g.: A tube which is ordered in metres but supplied as 6 meter piece (smallest logistical unit that corresponds to a piece). See chapter 7.5 for specific examples.	6
<b>CONVERSION_TO_PIECE_UNIT</b>	<b>MDF0411</b>	C	Value list <a href="#">5.1</a>	3 (Units)	Unit of MDF0410 CONVERSION_TO_PIECE which means unit of the smallest logistical unit that corresponds to a piece. Identical to MDF0063 ORDER_UNIT, except to mark a SET. Conditionally mandatory if MDF0410 CONVERSION_TO_PIECE is filled in.	MTR
<b>QUANTITY_MIN</b>	<b>MDF0062</b>	M	Number	16,3	Minimum order quantity with respect to the order unit MDF0063 ORDER_UNIT. Minimum order quantity: Always greater than 0, e.g., quantity / number of pieces (5) or length specifications (2,5).	1,234
<b>QUANTITY_INTERVAL</b>	<b>MDF0064</b>	O	Number	16,3	Number indicating the quantity steps in which the article can be ordered.	5
<b>QUANTITY_EXEMPTION</b>	<b>MDF0504</b>	O	Boolean	true / false	Indicates whether it is possible to disregard QUANTITY_MIN and QUANTITY_INTERVAL for commission orders. If "false" is specified, the QUANTITY_MIN and QUANTITY_INTERVAL specifications are binding. An empty field is treated as value "false".	false
<b>STOCK_ARTICLE</b>	<b>MDF0505</b>	O	Boolean	true / false	Indicates whether the manufacturer regularly stocks this product. The information refers to the time of data delivery, it does not guarantee direct availability.	true
<b>PACKING_PARTS</b>	<b>MDF0132</b>	C	Number	2,0 (1-99)	Quantity stating how many packages the article consists of, e.g., a shower screen is delivered in 2 boxes (=2 packages). If PACKING_PARTS>1, then no packaging units have to be specified. If the packing parts fit on one Euro pallet, it is possible to specify the dimensions of the entire pallet/packing unit in the table PackagingUnits. Conditionally mandatory for articles with ARTICLE_TYPE STD and SP.	2

Name	Unique identifier	Required	Format	Length / Details	Description	Example
<b>SHELF_LIFE_PERIOD</b>	<b>MDF0065</b>	O	Number	2,0 (1-99)	Shelf life is the period of time from the date of manufacture that an article is expected to remain within its approved product specification while stored under defined conditions. Another expression for the same is "best before" or "storage life". Indication of the period in months 1-99; 99 means unlimited durability. Useful for certain articles, e.g., self adhesive pipe insulation. This detail does not provide any information on possible warranty claims, potential temporary storage of an article or legal requirements.	99
<b>WARRANTY_BUSINESS</b>	<b>MDF0412</b>	O*	Number	3,0 (1-999)	Warranty in months, beginning with the date of sale. Indication of the period in months 1-999; 999 means lifelong warranty. Declaration warranty (ATTACHMENT_TYPE D05) in table Attachments can be used to include a warranty document, specifying the terms of the warranty. * Note: Mandatory for FAB-DIS data delivery.	24

### 4.3 Description

This table is used to present descriptions of the articles. This table has to be delivered with every data delivery but does not have to be filled in. If the table is filled in, elements that are mandatory (M) have to be filled in per line. Only one line per article is allowed.

Name	Unique identifier	Required	Format	Length / Details	Description	Example
<b>SUPPLIER_ARTICLE_NUMBER</b>	<b>MDF0021</b>	M	String	35	Contains the article number defined by the supplier. It is most important for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.	JKS300062011
<b>TEXT_40_1</b>	<b>MDF0100</b>	O	String	40	Very short description of an article, e.g., for ERP systems or invoices / delivery notes. Exception: Discontinued articles and their successors may have the same article texts.	Viega pipe Prestabo 1106
<b>TEXT_40_2</b>	<b>MDF0101</b>	O	String	40	This is an addition to attribute MDF0100 TEXT_40_1. The combination of TEXT_40_1 plus TEXT_40_2 must make unique descriptions of the article and helps recipients to process it into two fields. Exception: Discontinued articles and their successors may have the same article texts.	6170.11 in 725mmxDN40/50 chromium-plated
<b>TEXT_256</b>	<b>MDF0103</b>	O	String	256	This longer text is an article-identifying, unambiguous description of the article as unformatted continuous text. This text type could be used in commercial documents and incoming-goods processes. The longer text must be unique. Recommendation: Resolve abbreviations if there is enough space available. Exception: Discontinued articles and their successors may have the same article texts.	Viega Multiplex Trio equipment set Visign MT9 for drain/overflow functional unit, Model 2058.01 Version: plastic black matt
<b>TEXT_ARTICLE_DESCRIPTION</b>	<b>MDF0413</b>	O	String	10000	Extensive description of the article (e.g., technical features, application purpose, characteristics, special features, versions). It includes references to standards or safety instructions and information on components or mandatory accessories. HTML is mandatory.	Multiplex Trio</b><b>equipment set</b> <b>Visign MT9</b> for drain/overflow functional unit, Model 2058.01 <b>equipment</b> poppet Model 6161.01  item 806 125 Version: plastic black matt 
<b>TEXT_MARKETING</b>	<b>MDF0104</b>	O	String	10000	The marketing text is a user-oriented description of an article as formatted continuous text. It is not intended to be exhaustive and it is for commercial purposes. HTML is mandatory.	

Name	Unique identifier	Required	Format	Length / Details	Description	Example
<b>TEXT_APPLICATION_PURPOSE</b>	<b>MDF0105</b>	O	String	10000	This attribute explains how to use or not use this product from a technical perspective on a deeper level. The application purpose provides advice on processing techniques that deviate from standard procedures (e. g. reference to special tools). HTML is mandatory. Note: Not suitable for heating and cooling systems.	
<b>TEXT_USP</b>	<b>MDF0506</b>	O	String	10000	Text in which the unique selling point of the article can be presented in short and concise bullet points. HTML is mandatory.	
<b>DEEP_LINK_URL</b>	<b>MDF0106</b>	O	String	256	A deep link (URL) redirects to a relevant webpage from the supplier or manufacturer, where further information on the article may be found. The URL has to be SSL encrypted.	<a href="https://www.company.com/articlenumber">https://www.company.com/articlenumber</a>
<b>SPARE_PARTS_URL</b>	<b>MDF0507</b>	O	String	256	A deep link (URL) redirects to a relevant webpage from the supplier or manufacturer, where further information on the spare parts of the article may be found. If there is another additional link for the spare parts, please enter it here. The link should not be the same as MDF0106 DEEP_LINK_URL. The URL has to be SSL encrypted.	<a href="https://www.company.com/sparepart">https://www.company.com/sparepart</a>

## 4.4 PackagingUnits

→ further information 7.6 Packaging units

This table is used to present the packaging units of the articles. This table has to be delivered with every data delivery but does not have to be filled in. If the table is filled in, elements that are mandatory (M) have to be filled in per line. Multiple lines per article are allowed.

If the supplier specifies packaging units, they need to be specified starting from at least the amount of the minimum order quantity (MDF0062 QUANTITY\_MIN) and above. Quantities below the minimum order quantity can also be supplied in this table if available (e.g., a single tube can but does not have to be supplied as a packaging unit if the supplier's minimum order quantity is a not a single pipe but a large bundle instead).

Up to five different packaging units can be given for every article. Multiple packaging units with the same PACKAGING\_UNIT\_QUANTITY are not allowed. The dimensions of a packaging unit cannot be less than 1 mm.

Name	Unique identifier	Required	Format	Length / Details	Description	Example
SUPPLIER_ARTICLE_NUMBER	MDF0021	M	String	35	Contains the article number defined by the supplier. It is most important for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG. If the article has more than one packaging unit, the MDF0021 SUPPLIER_ARTICLE_NUMBER in table PackagingUnits is repeated for every packaging unit.	JKS300062011
PACKAGING_UNIT_QUANTITY	MDF0121	M	Number	16,3	Number of MDF0063 ORDER_UNIT contained in the packaging unit. All subsequent values in this line (MDF0122-MDF0132) refer to this particular packaging unit.	2
PACKAGING_UNIT_GTIN	MDF0122	C	GTIN	14	The GTIN for the packaging unit. The GTIN has to be unique for every packaging unit. If the GTIN of the packaging unit is different from the GTIN of the article, it means another packaging level. Conditionally mandatory for the first packaging unit level with packaging unit quantity 1 if there is a GTIN for the article. More precise: Conditionally mandatory for the first packaging unit level with MDF0121 PACKAGING_UNIT_QUANTITY=1 if there is a GTIN of the article (MDF0022 SUPPLIER_GTIN) as the GTIN is the same for both.	4048797109712
PACKAGING_UNIT_CODE	MDF0123	M	Value list <a href="#">5.4</a>	3 (Package kind)	Definition of the packaging type, e.g., box, basket.	CT
PACKAGING_UNIT_WIDTH	MDF0124	M	Number	16,3	Width of the entire packaging unit incl. packaging. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	110
PACKAGING_UNIT_DEPTH	MDF0126	M	Number	16,3	Depth of the entire packaging unit incl. packaging. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	210
PACKAGING_UNIT_HEIGHT	MDF0128	M	Number	16,3	Height of the entire packaging unit incl. packaging. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	70
PACKAGING_UNIT_WEIGHT	MDF0130	M	Number	16,3	Weight of the entire packaging unit incl. packaging. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	0,85
PACKAGING_UNIT_VOLUME	MDF0508	O	Number	16,3	Volume of the entire packaging unit incl. packaging. The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.	1,617

## 4.5 Attachments

→ further information 7.7 Attachments

This table is used to present the attachments of the articles. This table has to be delivered with every data delivery but does not have to be filled in. If the table is filled in, elements that are mandatory (M) have to be filled in per line. Multiple lines per article are allowed.

Name	Unique identifier	Required	Format	Length / Details	Description	Example
SUPPLIER_ARTICLE_NUMBER	MDF0021	M	String	35	Contains the article number defined by the supplier. It is most important for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.	JKS300062011
ATTACHMENT_FILENAME	MDF0140	M	String	256	File name of the attachment / digital asset, including file extension. The attachment / digital asset doesn't have to be unique.	picture1.jpg
ATTACHMENT_TYPE	MDF0141	M	Value list <a href="#">5.7</a>	10 (Attachment type)	Type of attachment / digital asset. → further information 7.7 Pictures	P01
ATTACHMENT_USE	MDF0414	C	Value list <a href="#">5.11</a>	10 (Attachment use)	Use of the attachment: Web (in RGB colour space) or print image (in CMYK colour space). Conditionally mandatory if MDF0141 ATTACHMENT_TYPE is a picture P01-P13. Recommendation: Don't provide different versions of the same image if there are different resolutions. Deliver images with high resolution up to 4K, also for web images.	web
REPRESENTATIVE_PICTURE	MDF0142	O	Boolean	true / false	Representative image (similar / substitute image, product isn't exactly like the picture, e.g., different colour). The value "true" can only be used if MDF0141 ATTACHMENT_TYPE is a picture P01-P13.	true
ATTACHMENT_URL	MDF0143	O	String	512	Direct URL to the attachment/digital asset on the supplier's webpage. The URL has to be SSL encrypted.	https://www.company.com/articleasset.jpg
ATTACHMENT_DESCRIPTION	MDF0144	O	String	250	Description of the content of the allocated attachment / digital asset, e.g., front view, top view, side view for dimension drawings or DWG, ArchiCAD, Revit for planning data. Recommendation: If MDF0141 ATTACHMENT_TYPE is other (X99) or there are multiple attachments of the same type for one article, an attachment description can be helpful to customers.	Top view
ATTACHMENT_EXPLANATION	MDF0509	O	String	10000	Detailed technical description of the content of the allocated attachment / digital asset, e.g., position numbers or marketing content such as advantages of the article which are highlighted in the attachment. HTML is mandatory.	
ATTACHMENT_ORDER	MDF0415	C	Number	2,0 (1-99)	Order of the attachments of an article if there are multiple attachments with the same MDF0141 ATTACHMENT_TYPE and MDF0414 ATTACHMENT_USE. This is used as sorting when the attachments are displayed. Conditionally mandatory if there are multiple attachments of the same type for one article.	1

## 4.6 Specifications

→ further information 7.8 Specifications

This table is used to present specifications of the articles. This table has to be delivered with every data delivery and has to be filled in. Elements that are mandatory (M) have to be filled in per line. Multiple lines per article are allowed.

For every article, the indication of HAZARDOUS\_GOODS IDENTIFICATION, REACH IDENTIFICATION and ECHA\_DB IDENTIFICATION is mandatory. For examples and further explanations of value list use for specification system REGULATIONS, please see chapter 7.8 Specifications.

Name	Unique identifier	Required	Format	Length / Details	Description	Example
SUPPLIER_ARTICLE_NUMBER	MDF0021	M	String	35	Contains the article number defined by the supplier. It is most important for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.	JKS300062011
SPECIFICATION_SYSTEM	MDF0150	M	Value list <a href="#">5.13</a>	80 (Specification System)	Stating the specification system that the attribute refers to. Recommendation: Use one of the two latest ETIM releases.	ETIM 8 REGULATIONS
SPECIFICATION_CLASS_CODE	MDF0151	C	String or value lists <a href="#">5.14</a> , <a href="#">5.15</a>	60	Allocation to a specification class. Conditionally mandatory for all SPECIFICATION_SYSTEM except INDIV.	EC011550 HAZARDOUS_GOODS
FEATURE_CODE	MDF0152	M	String or value lists <a href="#">5.14</a> , <a href="#">5.16</a>	60	Unique name / characteristic of the attribute.	EF011666 IDENTIFICATION
FEATURE_VALUE_CODE_1	MDF0153	O	String or value lists <a href="#">5.17</a> , <a href="#">5.18</a> , <a href="#">5.19</a> , <a href="#">5.20</a> , <a href="#">5.21</a>	256	The value belonging to the feature_code. If it is a range, this is the minimum value. Defined feature values according to the ETIM classification: - Number value in case of numeric or range feature - Boolean value in case of logical feature ("true" or "false") - Identification code of the ETIM value, e.g., "EV001234" in case of alphanumerical feature	if a range: 10 true EV001234
FEATURE_VALUE_CODE_2	MDF0154	O	String	60	This value is used only if it is a range, give the maximum value belonging to the feature code.	if a range: 100
FEATURE_UNIT	MDF0155	O	String	20	Unit of measurement of the feature; standard units should be used.	EU570448

Name	Unique identifier	Required	Format	Length / Details	Description	Example
<b>FEATURE_VALUE_DETAILS</b>	<b>MDF0156</b>	O	String	250	Complementary description of the attribute value like further specification. Or (only for ETIM classification) this attribute can be used to explain why the feature has not been given a specific value. Use one of the following codes: - MV=value is available, but it cannot be found in the ETIM value list - NA=this feature is not applicable to the product - UN=unknown, supplier is not able to deliver a value This feature can be used next to each combination of MDF0152 FEATURE_CODE and MDF0153 FEATURE_VALUE_CODE_1 / MDF0154 FEATURE_VALUE_CODE_2.	Special colour
<b>PRODUCT_ETIM_RELEASE_DATE</b>	<b>MDF0157</b>	C	Date	10 (YYYY-MM-DD)	Date of intermediate / dynamic release. Conditionally mandatory if exchanging an ETIM dynamic release version.	2020-01-01

## 4.7 Relations

This table is used to present relations between articles. Consequently, related articles need to be available in the assortment. This table has to be delivered with every data delivery but does not have to be filled in. If the table is filled in, elements that are mandatory (M) have to be filled in per line. Multiple lines per article are allowed.

Name	Unique identifier	Required	Format	Length / Details	Description	Example
<b>SUPPLIER_ARTICLE_NUMBER</b>	<b>MDF0021</b>	M	String	35	Contains the article number defined by the supplier. It is most important for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.	JKS300062011
<b>RELATED_ITEM</b>	<b>MDF0416</b>	M	String	35	Supplier article number of the related item. The article number must be included in the table Article, except for RELATION_TYPE PREDECESSOR.	JKS300062012
<b>RELATION_TYPE</b>	<b>MDF0417</b>	M	Value list <a href="#">5.12</a>	20 (Relation type)	Type of relation according to value list 5.12 Relation type. The combination of MDF0021 SUPPLIER_ARTICLE_NUMBER, MDF0416 RELATED_ITEM and MDF0417 RELATION_TYPE must be unique.	ACCESSORIES
<b>RELATED_ITEM_QUANTITY</b>	<b>MDF0418</b>	M	Number	16,3	Number of items assigned as related (number in base item, quantity 1 of MDF0063 ORDER_UNIT).	1

## 4.8 Country-specific

→ 6 Country-specific value lists

→ further information 7.12 Country-specific

This table is used to present country-specific data. This table has to be delivered with every data delivery but does not have to be filled in. If the table is filled in, elements that are mandatory (M) have to be filled in per line. Multiple lines per article are allowed. The table should be filled in with the country-specific data for the country the data delivery is planned for (e.g., for Italy, country codes starting with IT should be used).

The country-specific elements of BMDG 1.0 (MDF0201-MDF0351) have been transformed into value lists for the countries (see chapter 6 Country-specific value lists). For examples, please see chapter 7.12 Country-specific.

Name	Unique identifier	Required	Format	Length / Details	Description	Example
<b>SUPPLIER_ARTICLE_NUMBER</b>	<b>MDF0021</b>	M	String	35	Contains the article number defined by the supplier. It is most important for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.	JKS300062011
<b>CS_CODE</b>	<b>MDF0450</b>	M	Value list	50 (CS_CODE)	Stating the country-specific code. The connection of a code to a country is given by the country abbreviation. Note: Only country-specific codes for the country stated in MDF0007 COUNTRY should be used.	DK_EL_NUMBER
<b>CS_VALUE</b>	<b>MDF0451</b>	M	Value list	1000 (CS_VALUE)	Stating the specific value of the MDF0450 CS_CODE.	1234567

## 5 Value lists

### 5.1 Units

Similar to UN/ECE Recommendation No. 20 - Units of Measure used in International Trade

Value	Description
CMK	Square centimetre
CMQ	Cubic centimetre
CMT	Centimetre
DZN	Dozen
GRM	Gram
HLT	Hectolitre
KGM	Kilogram
KTM	Kilometre
LTR	Litre
MMT	Millimetre
MTK	Square metre
MTQ	Cubic metre
MTR	Metre
PCE	Piece
PR	Pair
SET	Set
TNE	Tonne (Metric ton)

Imperial units

Value	Description
DZN	Dozen
INH	Inch
INQ	Cubic inch
GLI	Gallon
LBR	Pound
PCE	Piece

Value	Description
PR	Pair
SET	Set

## 5.2 Countries

Country information is stated according to ISO 3166-1 alpha-2. Only two-letter codes are valid. The complete list can be found [here](#).

Additional abbreviations to use for MDF0049 COUNTRY\_OF\_ORIGIN if none of the ISO 3166 alpha-2 codes apply.

Note: These codes can not be used for data deliveries to 2ba and FAB-DIS.

Value	English short name and description
EU	European Union (if it's produced in multiple countries in the EU)
ZZ	Countries and territories not specified, use only in exceptional cases

## 5.3 Measurement system

→ MDF0500 MEASUREMENT\_SYSTEM

Value	Description
METRIC	All length measurements in MMT, all weight measurements in KGM, volume measurement in DMQ Recommendation: Length measurements in MMT without decimal places, weight and volume measurements with three decimal places
IMPERIAL	LII length measurements in INH, all weight measurements in LBR, volume measurement in INQ Recommendation: Measurements with three decimal places

## 5.4 Package kind

→ MDF0123 PACKAGING\_UNIT\_CODE

Value	Description
BE	Bundle
BG	Bag
BO	Bottle
BX	Box
C62	One (unit)
CA	Can
CL	Coil

Value	Description
CQ	Cartridge
CR	Crate
CS	Case
CT	Carton
CY	Cylinder
D99	Sleeve
DR	Drum
EV	Envelope
KG	Keg
PA	Packet
PF	Pallet (lift)
PK	Pack
PL	Pail
PR	Pair
PU	Tray / tray pack
RG	Ring
RL	Reel
RO	Roll
SA	Sack
SET	Set
TN	Tin
TU	Tube
WR	Wrap
Z2	Chest
Z3	Cask

## 5.5 Languages

→ MDF0008 LANGUAGE

Language information is stated according to ISO 639-1. Only two-letter codes are valid.

Only the most relevant languages of the country portals are listed in this value list. The complete list of codes can be found [here](#).

Value	Description
ca	Catalan
cs	Czech
da	Danish
nl	Dutch
en	English
fi	Finnish
fr	French
de	German
it	Italian
no	Norwegian
pl	Polish
pt	Portuguese
sk	Slovak
es	Spanish
sv	Swedish

## 5.6 Currency

→ MDF0045 PRICE\_CURRENCY

Currency information is stated according to ISO 4217. Only three-letter codes are valid.

Only the most relevant currencies of the country portals are listed in this value list. The complete list of codes can be found [here](#).

Value	Description
CHF	Swiss franc
CZK	Czech koruna
DKK	Danish krone
EUR	Euro
GBP	Pound sterling

Value	Description
NOK	Norwegian krone
PLN	Polish złoty
SEK	Swedish krona

## 5.7 Attachment type

→ MDF0141 ATTACHMENT\_TYPE

→ 7.7 Attachments

Value	Description
P01	Picture
P05	Logo / pictogram
P06	Selection diagram (design chart)
P07	Line drawing
P08	Dimension drawing
P09	Ambient picture (milieu image)
P10	Exploded drawing
P11	360 picture / animation
P12	Wiring diagram
P13	Detail image / view
P14	2D CAD top view
P15	2D CAD frontal
P16	2D CAD side view
P17	3D CAD data
P99	Other pictures
V01	Presentation video
V02	Installation video
V03	How to use video (tutorial)
V99	Other videos
S01	Technical data sheet
S02	Safety data sheet
S03	Test report lithium batteries
S99	Other sheets

<b>Value</b>	<b>Description</b>
<b>D01</b>	Declaration ROHS
<b>D02</b>	Declaration COC
<b>D03</b>	Declaration DOP
<b>D04</b>	Declaration DOC (CE)
<b>D05</b>	Declaration Warranty
<b>D06</b>	Declaration REACH
<b>D07</b>	Declaration WEEE
<b>D08</b>	Environmental Product Declaration (EPD, France FDES)
<b>D09</b>	Other sustainability certificate
<b>D99</b>	Other declarations
<b>L01</b>	ErP label (energy related product)
<b>L02</b>	IE (motor efficiency)
<b>L03</b>	ECO label
<b>L99</b>	Other labels
<b>A01</b>	Approval for drinking water
<b>A02</b>	Approval for Exclassification
<b>A03</b>	Other approvals / certificates
<b>M01</b>	Installation manual
<b>M02</b>	User manual
<b>M03</b>	Maintenance manual
<b>M04</b>	Care manual
<b>M05</b>	Brochure
<b>M99</b>	Other manuals

## 5.8 Article type

→ MDF0405 ARTICLE\_TYPE

→ 7.2 Article type

Value	Description
<b>STD</b>	Standard article All articles are standard articles unless they are assigned to one of the following article types.
<b>SPA</b>	Spare part A spare part is defined as a part of the article that can be replaced and ordered separately in the course of maintenance and repair activities.
<b>VA</b>	Variant article Variant articles differ from a generic article only - or mainly - due to one or more characteristics, e.g., colour or material. Needs additional information (e.g., colour, material) to be available for order.
<b>CP</b>	Customised production Articles for which the final form is specified with additional information from the customer. Usually with price on request.
<b>SER</b>	Service / software Services or software are non-physical (intangible) articles offered by the supplier, e.g., measurement and product advice.
<b>SET</b>	Packet / set Several related, similar or complementary articles combined in one item.
<b>SA</b>	Special article (< 1% of range) Articles such as sample boards that are not standard articles and cannot be assigned to any other article type are special articles.
<b>CA</b>	Calculation article Calculation materials are only used in sales for pricing in the offer phase for custom articles, these calculation materials are never produced and cannot be ordered.
<b>BM</b>	Bulk material Bulk material describes a granular or lumpy mixture which is traded in a pourable form, e.g., sand, gravel.

## 5.9 Article status

→ MDF0501 ARTICLE\_STATUS

→ 7.3 Article status

Value	Description
<b>NEW</b>	Use NEW if the article appears in the data delivery for the first time or the launch date (MDF0034 VALID_FROM) is in the future. The launch date (MDF0034 VALID_FROM) has to be after the MDF0006 DATA_DELIVERY_VALIDITY_START. Exception: This does not apply to the very first data delivery.
<b>ACTIVE</b>	Use ACTIVE for current articles. If a launch date (MDF0034 VALID_FROM) is stated, it has to be in the past. An ACTIVE article cannot have a MDF0035 ARTICLE_EXPIRY_DATE.
<b>EXPIRING</b>	An EXPIRING article has an expiry date (MDF0035 ARTICLE_EXPIRY_DATE) in the future (no longer than two years in the future (MDF0006 DATA_DELIVERY_VALIDITY_START)).
<b>EXPIRED</b>	An EXPIRED article is no longer available for purchase. An expiry date (MDF0035 ARTICLE_EXPIRY_DATE) can be stated. If stated, the expiry date has to be in the past (before MDF0006 DATA_DELIVERY_VALIDITY_START). Recommendation: To ensure that all customers are adequately informed about the discontinuation, the article should remain in the data delivery as EXPIRED for one year from the data delivery date.

## 5.10 Tax

→ MDF0046 TAX

Please find further information on the VAT rates under [http://www.europa.eu/youreurope/business/taxation/vat/vat-rules-rates/index\\_en.htm](http://www.europa.eu/youreurope/business/taxation/vat/vat-rules-rates/index_en.htm) under paragraph VAT rates applied in EU countries.

Value	Description
FULL	Full VAT rate
REDUCED	Reduced VAT rate
ALTERNATIVE_REDUCED	Alternative reduced VAT rate
SUPER_REDUCED	Super reduced VAT rate
EXEMPT	Exempt from VAT

## 5.11 Attachment use

→ MDF0414 ATTACHMENT\_USE

Value	Description
web	Attachment for web usage (preferably RGB colour space)
print	Attachment for print usage (preferably CMYK colour space)

## 5.12 Relation type

→ MDF0417 RELATION\_TYPE

The reference article listed under RELATED\_ITEM is related to the source article (MDF0021 SUPPLIER\_ARTICLE\_NUMBER) according to the stated RELATION\_TYPE.

Every article in table Relations has to be listed in table Article, except for RELATION\_TYPE PREDECESSOR. There can be multiple relations to every article.

Value	Description
ACCESSORIES	Useful in conjunction with main article but not supplied (small assortment, flexibility, time offset during installation).
CONSISTS_OF	Used to build up parts lists. Reference is always made from the parent part to the parts it consists of. In order to reference the number of parts contained, quantity can be added in separate column MDF0418 RELATED_ITEM_QUANTITY. Used to display set components.
FOLLOWUP	A follow-up article is a successor to a discontinued article. It is defined as an article which has the same purpose and functions as the source article.
PREDECESSOR	A predecessor is a discontinued article which had the same purpose and functions as the source article.
MANDATORY	A mandatory additional article is necessary for the functionality of the source article. If several articles are marked MANDATORY, they are all necessary for the functionality of the source article.
SELECT	If several articles are connected by SELECT, at least one of the additional articles listed under MDF0417 RELATED_ITEM is necessary for the functionality of the source article.
SIMILAR	A similar article is defined as an article which is similar to the source article in purpose and functions and could be used in its place.

Value	Description
<b>SPAREPART</b>	A spare part is defined as a part of the article that can be replaced and ordered separately in the course of maintenance and repair activities.
<b>UPSELLING</b>	A more advanced version of the source article with added value. The source article is still available.
<b>CROSSELLING</b>	Offering products that complement each other and meet the needs of customers, e.g., toilet brush or fragrance to toilet bowl. These are neither spare parts, nor accessories and not necessary for the function of the article.
<b>OTHERS</b>	This reference type can be used if none of the other reference types adequately describes the relationship between the reference article and the source article.

### 5.13 Specification system

→ MDF0150 SPECIFICATION\_SYSTEM

→ 7.8 Specifications

Recommendation: provide the data according to one of the two latest versions. The data should be delivered completely in one version, not just partially.

Value	Description	
<b>ETIM 8</b>	ETIM Classification V.8	
<b>ETIM 9</b>	ETIM Classification V.9	→ 7.9 ETIM classification
<b>ETIM 10</b>	ETIM Classification V.10	
<b>DYNAMIC</b>	ETIM Version Dynamics	
<b>UNSPSC</b>	United Nations Standard Products and Services Code	
<b>INDIV</b>	Individual attributes that cannot be mapped via another specification system. No structure is specified.	
<b>ADDITIONAL_VALUES</b>	Additional attribute values for the article, e.g., keywords	→ 7.10 Additional values
<b>REGULATIONS</b>	Regulations	→ 7.11 Regulations

### 5.14 Classes and attribute names in Specification system ADDITIONAL\_VALUES

→ 7.10 Additional values

Classification	Value	Description
<b>KEYWORDS</b>	<b>KEYWORD</b>	Keywords, e.g., for online search
<b>VARIATION</b>	<b>MAIN</b>	Main differentiating attribute of articles within the product model or series (if there is no model family). Only one main differentiator is possible.
<b>VARIATION</b>	<b>ADDITIONAL</b>	Additional differentiating attribute of articles within the product model or series (if there is no model family). Multiple additional differentiators are possible.
<b>PRIORITY</b>	<b>PRIORITY</b>	Voluntary indication of a ranking of the importance of the articles. High numbers indicate a higher priority, lower numbers indicate lower priority. Used to display the most important articles on the first pages of the article search of Building Masterdata.

## 5.15 Classes in Specification system REGULATIONS

Use the following values for SPECIFICATION\_CLASS\_CODE MDF0151 if SPECIFICATION\_SYSTEM MDF0150 is REGULATIONS.

Value	Description
ERP	Energy-related products, energy efficiency class → 7.11.1 Energy efficiency classes
UBA_POSITIVE_LIST	UBA positive list
HAZARDOUS_GOODS	Information on hazardous goods
REACH	REACH identification → 7.11.2 REACH regulation
ROHS	ROHS identification
CE	CE identification
HAZARDOUS_SUBSTANCES	Information on hazardous substances (according to the safety data sheet) → 7.11.3 Information on hazardous substances
BATTERY	Battery identification → 7.11.4 Battery information
ECHA_DB	ECHA database identification
DISPOSAL	Disposal of waste
EXPLOSIVE	Regulation on explosives precursors
ELECTRIC_COMPONENT	Information on contained electrical components

## 5.16 Classes and attribute names in Specification system REGULATIONS

Use the following values for FEATURE\_CODE MDF0151 according to the previous classification if SPECIFICATION\_SYSTEM MDF0150 is REGULATIONS.

Classification	Value	Description	Conditions	Single/ Multiple	Possible values
ERP	SPACE_HEATING	Energy efficiency class - seasonal space heating → 7.11.1 Energy efficiency		single	Value list <a href="#">5.17</a>
ERP	SPACE_HEATING_55C	Energy efficiency class - seasonal space heating in medium-temperature applications (55 °C)		single	Value list <a href="#">5.17</a>
ERP	SPACE_HEATING_35C	Energy efficiency class - seasonal space heating in low-temperature applications (35 °C)		single	Value list <a href="#">5.17</a>
ERP	WATER_HEATING	Energy efficiency class - water heating		single	Value list <a href="#">5.17</a>
ERP	SPACE_HEATING_COMPOUND	Energy efficiency class - seasonal space heating with compound system consisting of room heater, temperature controller and solar device		single	Value list <a href="#">5.17</a>
ERP	COMBI_HEATING_COMPOUND	Energy efficiency class - seasonal space heating with compound system consisting of combination heater, temperature controller and solar device		single	Value list <a href="#">5.17</a>
ERP	WATER_HEATING_COMPOUND	Energy efficiency class - water heating with compound system consisting of combination heater, temperature controller and solar device or Energy efficiency class - water heating with compound system consisting of water heater and solar device		single	Value list <a href="#">5.17</a>
ERP	HOT_WATER_TANK	Energy efficiency class - hot water tank		single	Value list <a href="#">5.17</a>
ERP	COOLING	Energy efficiency class - cooling		single	Value list <a href="#">5.17</a>
ERP	HEATING_COLDER	Energy efficiency class - heating colder climate zone		single	Value list <a href="#">5.17</a>
ERP	HEATING_MEDIUM	Energy efficiency class - heating medium climate zone		single	Value list <a href="#">5.17</a>
ERP	HEATING_WARMER	Energy efficiency class - heating warmer climate zone		single	Value list <a href="#">5.17</a>
ERP	SOLID_FUEL_BOILER	Energy efficiency class - solid fuel boiler		single	Value list <a href="#">5.17</a>
ERP	SOLID_FUEL_BOILER_COMPOUND	Energy efficiency class - compound system consisting of a solid fuel boiler, auxiliary heating equipment, temperature controller and solar equipment		single	Value list <a href="#">5.17</a>
ERP	LAMP	Energy efficiency class - lamp		single	Value list <a href="#">5.17</a>
ERP	CHANDELIER	Energy efficiency class - chandelier approved from / to		single	Value list <a href="#">5.17</a>
ERP	LED	Energy efficiency class - LED from / to		single	Value list <a href="#">5.17</a>
ERP	LIGHT_SOURCES	Energy efficiency class - light sources (Regulation (EU) 2019/2015)		single	Value list <a href="#">5.17</a>
ERP	ROOM_HEATER	Energy efficiency class - individual room heater		single	Value list <a href="#">5.17</a>
ERP	BI_VENTILATION	Energy efficiency class - bi-directional ventilation unit		single	Value list <a href="#">5.17</a>

Classification	Value	Description	Conditions	Single/ Multiple	Possible values
UBA_POSITIVE_LIST	<b>IDENTIFICATION</b>	UBA positive list labelling		single	true / false
UBA_POSITIVE_LIST	<b>IDENTIFICATION_REQUIREMENT</b>	UBA requirement labelling	conditionally mandatory if UBA_POSITIVE_LIST IDENTIFICATION=true	single	true / false
HAZARDOUS_GOODS	<b>IDENTIFICATION</b>	HAZMAT labelling	mandatory	single	true / false
HAZARDOUS_GOODS	<b>UN_NUMBER</b>	UN number	conditionally mandatory if HAZARDOUS_GOODS IDENTIFICATION=true	multiple	
HAZARDOUS_GOODS	<b>DANGER_CLASS</b>	Hazard class	conditionally mandatory if HAZARDOUS_GOODS IDENTIFICATION=true	single	
HAZARDOUS_GOODS	<b>ADR_CATEGORY</b>	Transportation category	conditionally mandatory if HAZARDOUS_GOODS IDENTIFICATION=true	single	Value list <a href="#">5.18</a>
HAZARDOUS_GOODS	<b>OFFICIAL_NAME</b>	Official designation		single	
HAZARDOUS_GOODS	<b>TECHNICAL_NAME</b>	Technical designation		single	
HAZARDOUS_GOODS	<b>SHIPPING_NAME</b>	Description in ADR 2021 of the UN, Table A in Chapter 3.2, in upper case characters		single	
HAZARDOUS_GOODS	<b>HAZARD_LABEL</b>	Hazard label		single	
HAZARDOUS_GOODS	<b>PACKAGING_GROUP</b>	Packaging group		single	

Classification	Value	Description	Conditions	Single/ Multiple	Possible values
HAZARDOUS_GOODS	<b>NR_SHIPPED_ITEMS</b>	Number of shipped items		single	
HAZARDOUS_GOODS	<b>DESCR_SHIPPED_ITEMS</b>	Description of shipped items		single	
HAZARDOUS_GOODS	<b>TUNNEL_CODE</b>	Tunnel restriction code		single	
HAZARDOUS_GOODS	<b>WATER_CLASS</b>	Water dangerous good class		single	
HAZARDOUS_GOODS	<b>LIMITED_QUANTITIES</b>	Restricted amount		single	
REACH	<b>IDENTIFICATION</b>	Labelling. Is the article subject to listing? → 7.11.2 REACH regulation	mandatory	single	true / false / no data
REACH	<b>DATE</b>	Date (stated based on ISO 8601: YYYY-MM-DD (2020-01-01))	conditionally mandatory if REACH IDENTIFICATION=true or false	single	
REACH	<b>SVHC_NAME</b>	Name of the SVHC (substance of very high concern) on the basis of which the article was classified as REACH-relevant. The CAS number can additionally be specified in MDF0156 FEATURE_VALUE_DETAILS.	conditionally mandatory if REACH IDENTIFICATION=true	multiple	
ROHS	<b>IDENTIFICATION</b>	Labelling. Is the article subject to listing?		single	true / false / exempt
CE	<b>IDENTIFICATION</b>	Labelling. Does the article have a CE marking?		single	true / false
HAZARDOUS_SUBSTANCES	<b>IDENTIFICATION</b>	Identification of the dangerous substances → 7.11.3 Information on hazardous substances		single	true / false
HAZARDOUS_SUBSTANCES	<b>TRADE_NAME</b>	Trade name		single	
HAZARDOUS_SUBSTANCES	<b>INFORMATION</b>	Supplementary information		single	
HAZARDOUS_SUBSTANCES	<b>SIGNAL_WORD_WARNING</b>	Signal word warning		single	true / false
HAZARDOUS_SUBSTANCES	<b>SIGNAL_WORD_DANGER</b>	Signal word danger		single	true / false
HAZARDOUS_SUBSTANCES	<b>STORAGE_CLASS</b>	Storage class		single	Value list <a href="#">5.19</a>

Classification	Value	Description	Conditions	Single/ Multiple	Possible values
HAZARDOUS_SUBSTANCES	IDENTIFICATION_COMMERCIAL_ONLY	Commerical use only identification		single	true / false
HAZARDOUS_SUBSTANCES	GHS_LABEL_CODE	GHS label code		multiple	Value list <a href="#">5.19</a>
HAZARDOUS_SUBSTANCES	HAZARD_STATEMENT	Hazard statement		multiple	Value list <a href="#">5.19</a>
HAZARDOUS_SUBSTANCES	PRECAUTIONARY_STATEMENT	Precautionary statement		multiple	Value list <a href="#">5.19</a>
BATTERY	IDENTIFICATION	Identification. Does the article contain a battery?	→ 7.11.4 Battery information	single	true / false
BATTERY	BATTERY_PICTOGRAM	Battery pictogram		multiple	Value list <a href="#">5.20</a>
BATTERY	BATTERY_TYPE	Type of battery		multiple	Value list <a href="#">5.20</a>
BATTERY	BATTERY_IEC_CODE	International Electrotechnical Commission (IEC) code of battery		multiple	
BATTERY	BATTERY_LOCATION	Location of battery		multiple	Value list <a href="#">5.20</a>
BATTERY	BATTERY_QUANTITY	Number of the specified type of battery		multiple	
BATTERY	BATTERY_WEIGHT	Weight of one battery of the specified type, stated either in kg or lbs according to MDF0500 MEASUREMENT_SYSTEM		multiple	
BATTERY	BATTERY_CAPACITY_AH	Capacity in ampere hour of one battery of the specified type		multiple	
BATTERY	BATTERY_VOLTAGE	Voltage in volt of one battery of the specified type		multiple	
ECHA_DB	IDENTIFICATION	Identification. Is the article subject to database?	mandatory	single	true / false / no data
ECHA_DB	SCIP_NUMBER	SCIP number	conditionally mandatory if ECHA_DB IDENTIFICATION=true	single	
DISPOSAL	WEEE_NUMBER	WEEE registration number		single	
DISPOSAL	WEEE_CATEGORY	Specification of the WEEE category		single	Value list <a href="#">5.21</a>
EXPLOSIVE	CLASSIFICATION	Classification according to the regulation. The CAS number can additionally be specified in MDF0156 FEATURE_VALUE_DETAILS.		single	
ELECTRIC_COMPONENT	IDENTIFICATION	Identification. Does the article contain electric components?		single	true / false

Use the following values for FEATURE\_VALUE\_CODE\_1 according to the previous feature code and classification if SPECIFICATION\_SYSTEM MDF0150 is REGULATIONS.

## 5.17 Energy efficiency class in Classification ERP

→ 7.11.1 Energy efficiency classes

Value	Description
A+++	Energy efficiency class A+++
A++	Energy efficiency class A++
A+	Energy efficiency class A+
A	Energy efficiency class A
B	Energy efficiency class B
C	Energy efficiency class C
D	Energy efficiency class D
E	Energy efficiency class E
F	Energy efficiency class F
G	Energy efficiency class G

## 5.18 Carrying category in Classification HAZARDOUS\_GOODS value ADR\_CATEGORY

Value	Description
0	Maximum total quantity (in kg or litres) per transport unit: 0
1	Maximum total quantity (in kg or litres) per transport unit: 20
2	Maximum total quantity (in kg or litres) per transport unit: 333
3	Maximum total quantity (in kg or litres) per transport unit: 1000
4	Maximum total quantity (in kg or litres) per transport unit: Unlimited

## 5.19 Attribute values in Classification HAZARDOUS\_SUBSTANCES

→ 7.11.3 Information on hazardous substances

Attribute name	Attribute value
STORAGE_CLASS	1
STORAGE_CLASS	2A
STORAGE_CLASS	2B
STORAGE_CLASS	3
STORAGE_CLASS	4.1A
STORAGE_CLASS	4.1B

Attribute name	Attribute value
STORAGE_CLASS	<b>4.2</b>
STORAGE_CLASS	<b>4.3</b>
STORAGE_CLASS	<b>5.1A</b>
STORAGE_CLASS	<b>5.1B</b>
STORAGE_CLASS	<b>5.1C</b>
STORAGE_CLASS	<b>5.2</b>
STORAGE_CLASS	<b>6.1A</b>
STORAGE_CLASS	<b>6.1B</b>
STORAGE_CLASS	<b>6.1C</b>
STORAGE_CLASS	<b>6.1D</b>
STORAGE_CLASS	<b>6.2</b>
STORAGE_CLASS	<b>7</b>
STORAGE_CLASS	<b>8A</b>
STORAGE_CLASS	<b>8B</b>
STORAGE_CLASS	<b>10</b>
STORAGE_CLASS	<b>11</b>
STORAGE_CLASS	<b>12</b>
STORAGE_CLASS	<b>13</b>
GHS_LABEL_CODE	<b>GHS01</b>
GHS_LABEL_CODE	<b>GHS02</b>
GHS_LABEL_CODE	<b>GHS03</b>
GHS_LABEL_CODE	<b>GHS04</b>
GHS_LABEL_CODE	<b>GHS05</b>
GHS_LABEL_CODE	<b>GHS06</b>
GHS_LABEL_CODE	<b>GHS07</b>
GHS_LABEL_CODE	<b>GHS08</b>
GHS_LABEL_CODE	<b>GHS09</b>
HAZARD_STATEMENT	According to regulation (EC) No 1272/2008 (CLP) with addition of the EUH
PRECAUTIONARY_STATEMENT	According to regulation (EC) No 1272/2008 (CLP)

## 5.20 Attribute values in Classification BATTERY

→ 7.11.4 Battery information

Attribute name	Attribute value	Description
BATTERY_PICTOGRAM	Yes, UN 3480	There is a battery pictogram UN 3480
BATTERY_PICTOGRAM	Yes, UN 3481	There is a battery pictogram UN 3481
BATTERY_PICTOGRAM	Yes, UN 3090	There is a battery pictogram UN 3090
BATTERY_PICTOGRAM	Yes, UN 3091	There is a battery pictogram UN 3091
BATTERY_PICTOGRAM	No	There is no battery pictogram
BATTERY_TYPE	AL	Alkaline non-rechargeable
BATTERY_TYPE	ALR	Alkaline rechargeable
BATTERY_TYPE	BPAL	Button cell alkaline
BATTERY_TYPE	BPARG	Button cell silver oxide
BATTERY_TYPE	BPDIV	Button cell other
BATTERY_TYPE	BPLI	Button cell lithium
BATTERY_TYPE	BPZNA	Button cell zinc air
BATTERY_TYPE	LIFEPO4	Lithium iron phosphate
BATTERY_TYPE	LIIO	Lithium-ion
BATTERY_TYPE	LIMN	Lithium manganese
BATTERY_TYPE	LINVAL	Lithium non-recyclable
BATTERY_TYPE	LI-NORE	Lithium non-rechargeable
BATTERY_TYPE	LI-RE	Lithium rechargeable
BATTERY_TYPE	LIPOLY	Lithium polymer
BATTERY_TYPE	LISOCI2	Lithium thionyl chloride
BATTERY_TYPE	MER	Mercuric oxide
BATTERY_TYPE	NICAD	Nickel cadmium
BATTERY_TYPE	NIMET	Nickel metal hydride
BATTERY_TYPE	PB	Lead acid
BATTERY_TYPE	SAL	Saline
BATTERY_TYPE	ZNA	Zinc air
BATTERY_TYPE	ZSP-NORE	Specific non-rechargeable
BATTERY_TYPE	ZSP-RE	Specific rechargeable

Attribute name	Attribute value	Description
BATTERY_LOCATION	BATTERY	The article itself is a battery.
BATTERY_LOCATION	BATTERY_INTERNAL	The article contains a battery.
BATTERY_LOCATION	BATTERY_ADDED	The article is packaged with a battery.

### 5.21 Attribute values in Classification DISPOSAL value WEEE\_CATEGORY

Value	Description
1	Temperature exchange equipment
2	Screens, monitors, and equipment containing screens with a surface greater than 100 cm <sup>2</sup>
3	Lamps
4	Large equipment (any external dimension more than 50 cm) including, but not limited to: Household appliances; IT and telecommunication equipment; consumer equipment; luminaires; equipment reproducing sound or images, musical equipment; electrical and electronic tools; toys, leisure and sports equipment; medical devices; monitoring and control instruments; automatic dispensers; equipment for the generation of electric currents. This category does not include equipment included in categories 1 to 3.
5	Small equipment (no external dimension more than 50 cm) including, but not limited to: Household appliances; consumer equipment; luminaires; equipment reproducing sound or images, musical equipment; electrical and electronic tools; toys, leisure and sports equipment; medical devices; monitoring and control instruments; automatic dispensers; equipment for the generation of electric currents. This category does not include equipment included in categories 1 to 3 and 6.
6	Small IT and telecommunication equipment (no external dimension more than 50 cm)

## 6 Country-specific value lists

→ 4.8 Country-specific

→ further information 7.12 Country-specific

### 6.1 Switzerland CS\_CODE

Value	Description	Format	Length / Details	Example
CH_SGVSF_NUMBER	The SGVSF number is the article identification number used by the Swiss Wholesale Association, SGVSF.	String	12	364 005
CH_ST_NUMBER	The ST number is the article identification number used by Sanitas Troesch AG.	String	18	6417108.523
CH_NPK_NUMBER	The NPK number is an indication in the Normpositionen-Katalog, used for the calculation of building objects in Switzerland.	String	18	251.134

### 6.2 Denmark CS\_CODE

Value	Description	Format	Length / Details	Example
DK_EL_NUMBER	The EL number is the Danish branch number for electrical goods.	String	15	
DK_VVS_NUMBER	The VVS number is the Danish branch number for HVAC goods.	String	9	123456789
DK_VA_APPROVAL	VA approval is an approval for drinking water (old but still in use).	String	15	
DK_GDV_APPROVAL	GDV approval is an approval for drinking water.	String	15	

### 6.3 Spain CS\_CODE

Value	Description	Format	Length / Details	Example
ES_RAEE	Waste electrical and electronic equipment WEEE, in Spain RAEE R.D. 180/2015. Tax for the treatment and recycling of electrical and electronic equipment.	Number	5,3	21,123
ES_FLUORINATED_GAS	Indicates whether the article is subject to taxation for the treatment and recycling of fluorinated gas.	Boolean	true / false	true
ES_FLUORINATED_GAS_TAX	Indicates the amount of tax for the treatment and recycling of fluorinated gas.	Number	4,2	12,12
ES_FLUORINATED_GAS_EPIGRAFE	"Epigrafe" code of fluorinated gas. This code serves to classify the type of fluorinated gas that is being taxed.	Value list <a href="#">6.3.1</a>	4 (Value list ES_FLUORINATED_GAS_EPIGRAFE)	2.1

Value	Description	Format	Length / Details	Example
<b>ES_FLUORINATED_GAS_CODIGO_GESTION</b>	"Código de gestión" code of fluorinated gas. This code serves to further classify those fluorinated gases that have one of the following values for code ES_FLUORINATED_GAS_EPIGRAFE: "2.1", "3.1" or "3.2".	Value list <a href="#">6.3.2</a>	3 (Value list ES_FLUORINATED_GAS_CODIGO_GESTION)	P01

### 6.3.1 Value list ES\_FLUORINATED\_GAS\_EPIGRAFE

Value	Description (refrigerant gas type)
1.2	R-23 (virgin)
1.3	R-32 (virgin)
1.6	R-125 (virgin)
1.7	R-134 (virgin)
1.8	R-134a (virgin)
1.10	R-143 (virgin)
1.11	R-143a (virgin)
1.12	R-227ea (virgin)
1.13	R-236cb (virgin)
1.14	R-236ea (virgin)
1.15	R-236fa (virgin)
1.16	R-245ca (virgin)
1.17	R-245fa (virgin)
1.18	R-365mfc (virgin)
2.1	Prepared gases (virgin)
3.1	Pure gases (recycled/regenerated)
3.2	Prepared gases (recycled/regenerated)

### 6.3.2 Value list ES\_FLUORINATED\_GAS\_CODIGO\_GESTION

Value	Description (refrigerant type)
R2	R-23 (recycled/regenerated)
R3	R-32 (recycled/regenerated)
R6	R-125 (recycled/regenerated)
R7	R-134 (recycled/regenerated)
R8	R-134a (recycled/regenerated)
R10	R-143 (recycled/regenerated)
R11	R-143a (recycled/regenerated)
R12	R-227ea (recycled/regenerated)
R13	R-236cb (recycled/regenerated)
R14	R-236ea (recycled/regenerated)
R15	R-236fa (recycled/regenerated)
R16	R-245ca (recycled/regenerated)
R17	R-245fa (recycled/regenerated)
R18	R-365mfc (recycled/regenerated)
P01	R-404A (virgin)
P02	R-407A (virgin)
P04	R-407C (virgin)
P05	R-407F (virgin)
P06	R-410A (virgin)
P08	R-413A (virgin)
P09	R-417A (virgin)
P10	R-417B (virgin)
P11	R-422A (virgin)
P12	R-422D (virgin)
P13	R-424A (virgin)
P14	R-426A (virgin)
P15	R-427A (virgin)
P16	R-428A (virgin)

Value	Description (refrigerant type)
P17	R-434A (virgin)
P18	R-437A (virgin)
P19	R-438A (virgin)
P20	R-442A (virgin)
P21	R-507A (virgin)
P23	R-508B (virgin)
PXX	Could be: R-407H, R-425A, R-448A, R-449A, R-450A, R-452A, R-452B, R-453A, R-454A, R-454B, R-513A, Pure Green Gas Evo (all of them virgin)
T01	R-404A (recycled/regenerated)
T02	R-407A (recycled/regenerated)
T04	R-407C (recycled/regenerated)
T05	R-407F (recycled/regenerated)
T06	R-410A (recycled/regenerated)
T08	R-413A (recycled/regenerated)
T09	R-417A (recycled/regenerated)
T10	R-417B (recycled/regenerated)
T11	R-422A (recycled/regenerated)
T12	R-422D (recycled/regenerated)
T13	R-424A (recycled/regenerated)
T14	R-426A (recycled/regenerated)
T15	R-427A (recycled/regenerated)
T16	R-428A (recycled/regenerated)
T17	R-434A (recycled/regenerated)
T18	R-437A (recycled/regenerated)
T19	R-438A (recycled/regenerated)
T20	R-442A (recycled/regenerated)
T21	R-507A (recycled/regenerated)
T23	R-508B (recycled/regenerated)
TXX	Could be: R-407H, R-425A, R-448A, R-449A, R-450A, R-452A, R-452B, R-453A, R-454A, R-454B, R-513A, Pure Green Gas Evo (all of them recycled/regenerated)

## 6.4 Finland CS\_CODE

Value	Description	Format	Length / Details	Example
FI_LVI_NUMBER	The Finnish national LVI number is a unique seven-digit identification number for HVAC products sold on the Finnish market.	Number	7,0	1234567

## 6.5 France CS\_CODE

Value	Description	Format	Length / Details	Example
FR_REC_RETAIL_PRICE_EXCL_TAX	The non-binding recommended retail price excluding sales tax.	Number	15,2	12,22
FR_FUNCTION	A generic term that indicates the product function in the mind of the customer.	String	50	Tube
FR_FGAZ	Identification if the product is a fluorinated gas, corresponding to specific sales process.	Boolean	true / false	true
FR_ECO_ELEC	Article contains electrical / electronic components for specific process and tax.	Boolean	true / false	true
FR_ECO_FURN	Furniture need specific process and tax.	Boolean	true / false	true
FR_STORED_BY_MANUFACTURER	Indicates whether an article is stored by the manufacturer.	Boolean	true / false	false
FR EDI	Indicates whether an article can be ordered via EDI (electronic data exchange).	Boolean	true / false	true
FR_ACS_NUMBER	Approval number for drinking water Note: Conditionally mandatory for FAB-DIS data delivery if an attachment A01 Approval for drinking water is assigned to this article.	String	15	20 ACC NY 035
FR_ACS_DATE	ACS receipt date Note: Conditionally mandatory for FAB-DIS data delivery if an attachment A01 Approval for drinking water is assigned to this article.	Date	10 (YYYY-MM-DD)	2019-01-01
FR_CONTRIB_CODE1	Code identifying the type of contribution	Value list <a href="#">6.5.2</a>	7 Contribution code)	DEEE
FR_CONTRIB_CODE2	Code identifying the amount of eco-contribution, provided by the approved eco-organisation.	Value list		L5.5E
FR_CONTRIB_QUANTITY	Number of eco-contribution units (WEEE, DEA or PMCB) or remuneration for private copying (SORECOP), multiplier to apply to an article. Default value is 1.	Number	10,0	1
FR_CONTRIB_VALUE	Value of the contribution (WEEE, DEA, PMCB or SORECOP) per unit and excluding tax, according to the pricing applicable at the time of publication of the FAB-DIS. Value in EUR.	Number	11,4	0,1000

### 6.5.1 Further information on regulatory data for France

Regulatory type	Description	Stated via
ACS	French approval for drinking water	Table Attachments MDF0141 ATTACHMENT_TYPE A01 and table Country-specific.csv FR_ACS_NUMBER, FR_ACS_DATE
DOP	Declaration of performance (Construction Products Ordinance)	Table Attachments MDF0141 ATTACHMENT_TYPE D03
DOC	Declaration of conformity	Table Attachments MDF0141 ATTACHMENT_TYPE D04
FDS	Safety data sheet (SDB/MSDS)	Table Attachments MDF0141 ATTACHMENT_TYPE S02

### 6.5.2 Contribution code

Value	Description
DEEE	Waste of electrical and electronic equipment
DEA	Waste of furniture elements
PMCB	Construction products and materials in the building sector
SORECOP	Remuneration for private copying

## 6.6 Italy CS\_CODE

Value	Description	Format	Length / Details	Example
IT_ACRONYM_BRAND	Brand acronym uniquely assigned by IdroLAB. It is used to make the article code unique in a database with products from several brands.	String	3	ABC
IT_PRODUCT_CHOICE	Indicates the choice of the product in relation to its marketing (tile sector).	Value list <a href="#">6.6.1</a>	1 (Value list IT_PRODU CT_CHOI CE)	1
IT_PRODUCT_SURFACE_COEFFICIENT	Tile sector (multiplier linked to the determination of the surface). The default is equal to 1.	Number	8,4	1

Value	Description	Format	Length / Details	Example
<b>IT_STATUS_OF_PRODUCT</b>	Indicates the status of the product in relation to its marketing.	Value list <a href="#">6.6.2</a>	1 (Value list IT_STATU S_OF_PRODUCT)	C
<b>IT_FACILITATION_VAT</b>	Indicates whether the product is subject to an additional facilitated VAT (for example building renovations).	Boolean	true / false	false
<b>IT_PRODUCT_VARIANT_CHARACTERISTICS</b>	Indicates whether the product is characterised by variants. If >0 it indicates the number of 'variant' features. For example, if the item is a radiator with "Colour", "Position of the cap at the top or bottom" and "Position of the cap on the right or left" variants, this field must be updated with the number 3. If the item does not have variants, update with 0.	Number	2,0	0
<b>IT_PRODUCT_SUPPLEMENT_CHARACTERISTICS</b>	Indicates whether the product can be characterised, when ordering, by additional / customisable features. If >0, it indicates the number of features for which the supplement can be requested. For example, if the item is a radiator that is 120 cm high and is delivered in white, but can be ordered with a customisable height and RAL, the field must be updated with the value "2".	Number	2,0	2
<b>IT_DATA_STATUS</b>	Indicates the start date of application of the IT_STATUS_OF_PRODUCT.	Date	10 (YYYY-MM-DD)	2022-01-01
<b>IT_PRODUCT_COPPER_WEIGHT</b>	Weight of copper present in the product expressed in KGM / KTM.	Number	10,3	1,000
<b>IT_PACKAGING_TIPPING</b>	Indicates if the packaging can be tipped over (e.g., without damaging the article).	Boolean	true / false	false
<b>IT_PRODUCT_SERIAL_MANAGEMENT</b>	Product with serial number management.	Boolean	true / false	false
<b>IT_RAE SUPPLEMENT</b>	WEEE surcharge, indicates the value of the surcharge if not indicated in the product price.	Number	15,4	2,54
<b>IT_GAS_TYPE_FGAS</b>	Indicates the gas type code if the product is a fluorinated gas. If this field is filled in, IT_TYPE_OF_EQUIPMENT_FGAS can not be filled in.	Value list <a href="#">6.6.3</a>	1 (Value list IT_GAS_TYPE_FGAS)	1
<b>IT_GAS_CODE_FGAS</b>	Indicates the gas code of the product. If the product is equipment and not a fluorinated gas, the field refers to the fluorinated gas in circuit 1.	Value list <a href="#">6.6.4</a>	3 (Value list IT_GAS_CODE_FGAS)	051
<b>IT_GWP_FGAS</b>	Indicates the value of the global warming potential of the fluorinated gas. If the product is equipment, the field refers to circuit 1.	Number	11	1430
<b>IT_GAS_SUPPLY_FGAS</b>	Indicates the quantity on the plate in kg of fluorinated gas contained. If the product is equipment, the field refers to circuit 1.	Number	10,2	5,45

Value	Description	Format	Length / Details	Example
<b>IT_TYPE_OF_EQUIPMENT_FGAS</b>	Indicates the type of equipment containing fluorinated gases. If this field is filled in, the GAS_TYPE must be empty.	Value list <a href="#">6.6.5</a>	2 (Value list IT_TYPE_OF_EQUIPMENT_FGAS)	20
<b>IT_NUMBER_OF_CIRCUITS_FGAS</b>	Indicates the number of circuits present containing fluorinated gases. Only for products of "equipment" type. The value must be between 1 and 20.	Number	2,0	2
<b>IT_GAS_CODE2_FGAS</b>	Indicates the gas code of the product. If the product is equipment and not a fluorinated gas, the field refers to the fluorinated gas in circuit 2.	Value list <a href="#">6.6.4</a>	3 (Value list IT_GAS_CODE_FGAS)	051
<b>IT_GWP2_FGAS</b>	Indicates the value of the global warming potential only if the product is equipment; the field refers to circuit 2.	Number	11,0	1430
<b>IT_GAS_SUPPLY2_FGAS</b>	Indicates the quantity on the plate in KGM only if the product is equipment; the field refers to circuit 2.	Number	10,2	5,45
<b>IT_POLIECO_CONTRIBUION</b>	Indicates if the product is subject to the POLIECO contribution. For more details: <a href="https://www.polieco.it/">https://www.polieco.it/</a> .	Boolean	true / false	True
<b>IT_QUANTITY_OF_POLYETHYLENE_POLIECO</b>	Indicates if the product is subjected to the POLIECO contribution, the quantity of polyethylene present in it (in KGM).	Number	15,4	0,5
<b>IT_CONTRIBUTION_CONAI</b>	Indicates if the product is subject to the CONAI environmental contribution (national packaging consortium). For more details: <a href="https://www.conai.org/">https://www.conai.org/</a> .	Boolean	true / false	True
<b>IT_PACKAGING_MATERIAL_CONAI</b>	Indicates the type of packaging material for CONAI contribution, among the permitted values.	Value list <a href="#">6.6.6</a>	20 (Value list IT_PACKAGING_MATERIAL_CONAI)	Plastic_A
<b>IT_PACKAGING_QUANTITY_CONAI</b>	Indicates the quantity of material in packaging for CONAI contribution (in KGM).	Number	15,4	2,5

### 6.6.1 Value list IT\_PRODUCT\_CHOICE

Value	Description
1	First choice
2	Second choice
3	Third choice

4	Available for particular types
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### 6.6.2 Value list IT\_STATUS\_OF\_PRODUCT

Value	Description
F	New article built and not yet marketed
N	New item (recently added to the price list)
C	Current product (default)
E	Deleted product
S	Product in depletion
R	Product available on request
M	Customised product
G	Refurbished item
O	Article on offer
U	Used item
Y	Ordered item in the process of being cancelled
A	Other
1	Service (not physical commodity)
2	New service
3	Service cancelled

### 6.6.3 Value list IT\_GAS\_TYPE\_FGAS

Value	Description
1	Virgin
2	Regenerated
3	Recycled

#### 6.6.4 Value list IT\_GAS\_CODE\_FGAS

Value	Description
020	R116
030	R124
040	R125
050	R134
051	R134a
060	R14
070	R143
071	R143a
080	R152
081	R152a
090	R161
100	R218
110	R22
125	R227ea
130	R23
143	R236cb
145	R236ea
146	R236fa
153	R245ca
156	R245fa
158	R290
160	R3110
170	R32
188	R365mfc
191	R401A
192	R401B
193	R401C
201	R402A

Value	Description
202	R402B
211	R403A
212	R403B
221	R404A
231	R405A
241	R407A
242	R407B
243	R407C
244	R407D
245	R407E
247	R407F
251	R408A
260	R41
271	R410A
272	R410B
281	R411A
282	R411B
289	R4112
291	R412A
301	R413A
321	R415A
322	R415B
331	R416A
341	R417A
342	R417B
343	R417C
351	R418A
361	R419A
371	R420A

Value	Description
381	R421A
382	R421B
491	R422A
492	R422B
493	R422C
494	R422D
495	R422E
401	R423A
411	R424A
421	R425A
431	R426A
441	R427A
451	R428A
461	R429A
471	R430A
481	R431A
511	R434A
521	R435A
541	R437A
551	R438A
561	R439A
571	R440A
591	R442A
611	R444A
612	R444B
621	R445A
631	R446A
641	R447A
651	R448A

Value	Description
661	R449A
671	R450A
681	R451A
682	R451B
691	R452A
700	R500
710	R503
720	R504
751	R507A
761	R508A
762	R508B
771	R509A
791	R511A
798	R5114
801	R512A
811	R513A
860	Rc318
900	Sulphur hexafluoride
950	Vertrel XF

#### 6.6.5 Value list IT\_TYPE\_OF\_EQUIPMENT\_FGAS

Value	Description
10	Fixed refrigeration equipment
20	Fixed air conditioning equipment
30	Fixed heat pump
40	Fixed fire protection equipment
50	Cold room of refrigerated truck or trailer
60	Electric switch

70	Organic Rankine Cycle (ORC)
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### 6.6.6 Value list IT\_PACKAGING\_MATERIAL\_CONAI

Value	Description
Steel	Steel
Aluminium	Aluminium
Paper	Paper
Paper_multimaterial	Paper multimaterial packaging with predominance of paper suitable for containing liquids
Wood	Wood
Plastic_A	Plastic (level A)
Plastic_B1	Plastic (level B1)
Plastic_B2	Plastic (level B2)
Plastic_C	Plastic (level C)
Glass	Glass (level B2)

### 6.7 Netherlands CS\_CODE

Value	Description	Format	Length / Details	Example
NL_DIN_NUMBER	DIN is a number from the DIN Deutsches Institut für Normung and concerns the norm used for making technical products. Used in and mandatory for the Dutch ship building sector.	String	20	84
NL_ISO_NUMBER	ISO means International Organization for Standardization, a quality norm for mostly product and some management systems (e.g., ISO90001). Used in and mandatory for the Dutch ship building sector.	String	20	1207
NL_SINGLE_USE_QUANTIT Y	This field is used to describe the quantity of the smallest usable object (tube, screw, plate, tube, etc.), expressed in the unit of use. For example, if you order 10 plastic tubes which are each 4 metres, the smallest usable object is 4 metres.	Number	15,3	4
NL_SINGLE_USE_QUANTIT Y_UNIT	Unit of measure of NL_SINGLE_USE_QUANTITY.	Value list <a href="#">5.1</a>	3 (Units)	MTR
NL_LIST_DATE_SDS	Mandatory if HAZARDOUS GOODS IDENTIFICATION is "true".	Date	10 (YYYY-MM-DD)	2019-01-01
NL_COUNTRY_OF_DELIVE RY_ORIGIN	Indicates the country from which the article is delivered. Country codes according to ISO 3166-1 alpha-2. Mandatory for 2ba data delivery.	Value list <a href="#">5.2</a>	2 (Countries)	DE

Value	Description	Format	Length / Details	Example
<b>NL_ORDERABLE_INDICATOR</b>	Indicates whether the trade item is an orderable unit. Mandatory for 2ba data delivery.	Boolean	true / false	true
<b>NL_NORMAL_TEXT_70</b>	This is an article description of 70 characters. The text must be unique. Mandatory for 2ba data delivery.	String	70	Viega pipe Prestabo 1106 6170.11 in 725mmxDN40/50 chromium-plated
<b>NL_FRAGILE_ON_PACKAGING</b>	Indicates whether the package contains fragile articles.	Boolean	true / false	false
<b>NL_BEST_BEFORE_DATE_ON_PACKAGE</b>	Indicates whether the article has a "best before" date indicated on the packaging.	Boolean	true / false	false
<b>NL_CUTTABLE_INDICATOR</b>	Indicates whether the article can be cut.	Boolean	true / false	false
<b>NL_MAXIMUM_CUTTING_LENGTH</b>	The maximum length in which a product can be cut. Unit according to MDF0500 MEASUREMENT_SYSTEM. Mandatory if code NL_CUTTABLE_INDICATOR is "true".	Number	15,3	500
<b>NL_VARIATION</b>	Differentiating attributes of articles within the model (or series if there is no model family) such as colour, size, surface, capacity used for variation at 2ba data pool.	String	35	Sportsback

## 6.8 Norway CS\_CODE

Value	Description	Format	Length / Details	Example
<b>NO_NRF_NUMBER</b>	The NRF number is the Norwegian HVAC and plumbing industry's own seven-digit numbering system for identifying products.	Number	7,0	1234567

## 6.9 Portugal CS\_CODE

Value	Description	Format	Length / Details	Example
<b>PT_PACKAGING_MATERIAL_TYPE</b>	Type of packaging material (plastic, cardboard box, steel, wood).	Value list <a href="#">6.9.1</a>	2 (Value list PT_PACKAGING_MATERIAL_TYPE)	PL
<b>PT_PACKAGING_MATERIAL_WEIGHT</b>	Weight of the empty package material specified in KGM.	Number	16,3	12,3

### 6.9.1 Value list PT\_PACKAGING\_MATERIAL\_TYPE

Value	Description
PL	Plastic
CB	Cardboard box
ST	Steel
WO	Wood

### 6.10 Sweden CS\_CODE

Value	Description	Format	Length / Details	Example
SE_RSK_NUMBER	The RSK number is the Swedish HVAC and plumbing industry's own seven-digit numbering system for identifying products.	Number	7,0	1234567

## 7 Further information and examples

This chapter provides additional details and clarifications to ensure comprehensive understanding and accurate implementation of the Building Master Data Guideline (BMDG). It covers various aspects such as product classifications, pricing details, and regulatory information.

### 7.1 Article numbers

The clear allocation or identification of data is just as important as completeness and up-to-dateness. A key element in this is that the article numbers used in the master data have a similar structure to those used in print media (e.g. catalogues or brochures). An article number should therefore always correspond to the number printed on the articles without blanks and special characters. If a **new numbering system** is introduced, it should **not contain any blanks or special characters** (i.e. only 0-9, A-Z are permitted) or leading zeros. An article number remains **valid for 15 years before** it can be **reused**. Every change to an article published in the market requires a new article with a new article number and GTIN (examples: changed accessories, spare parts, advertised improvements, changed base measuring unit).

A distinction is made between the following article numbers:

#### Supplier article number

→ MDF0021 SUPPLIER\_ARTICLE\_NUMBER

The SUPPLIER\_ARTICLE\_NUMBER (MDF0021) is the central key denomination and is assigned to ensure the **clear identification/recognition of an article**. This article number has to be unambiguous across all sub-ranges, catalogues and variants and is assigned ex works by the organisation.

#### Catalogue article number

→ MDF0404 CATALOGUE\_ARTICLE\_NUMBER

It is possible to state an additional CATALOGUE\_ARTICLE\_NUMBER (MDF0404) as long as it **deviates from the actual supplier article** number with regard to the characters used and character length (e.g. in PDF documents).

#### GTIN

→ MDF0022 SUPPLIER\_GTIN

The GTIN is the successor to the former EAN and describes an **unambiguous article key in the European area**. Stating the GTIN is an important quality characteristic for the actual products. There are some exceptions in the assortment where the GTIN is often missing. The GTIN constitutes a unique identification of an article. GS1 has **forbidden the reuse** of a GTIN since 1 January 2019. More details can be found [here](#).

A GTIN may only be allocated to one single article number.

→ MDF0405 ARTICLE\_TYPE

→ 5.8 Article type

### 7.2 Article type

Article types are defined in order to be able to also consider article particularities with regard to quality requirements. The article type specifies the kind of article (e.g. standardised article, variant article, custom-built article, etc.). It will be used for steering the processes at wholesale.

The article type is steady and can usually not be changed, except in the following cases:

1. Correction if the article type was incorrect.
2. Correction if the article is stated in another way because a new article type has been implemented in the BMDG

As a rule, users are invited to provide information as comprehensively as possible.

### 7.3 Article status

→ MDF0501 ARTICLE\_STATUS

→ 5.9 Article status

The article status states the current status of the article regarding purchasability.

Value	Description
<b>NEW</b>	Use NEW if the article appears in the data delivery for the first time or the launch date (MDF0034 VALID_FROM) is in the future. The launch date (MDF0034 VALID_FROM) has to be after the MDF0006 DATA_DELIVERY_VALIDITY_START. Exception: This does not apply to the very first data delivery.
<b>ACTIVE</b>	Use ACTIVE for current articles. If a launch date (MDF0034 VALID_FROM) is stated, it has to be in the past. An ACTIVE article cannot have a MDF0035 ARTICLE_EXPIRY_DATE.
<b>EXPIRING</b>	An EXPIRING article has an expiry date (MDF0035 ARTICLE_EXPIRY_DATE) in the future (no longer than two years in the future (MDF0006 DATA_DELIVERY_VALIDITY_START)).
<b>EXPIRED</b>	An EXPIRED article is no longer available for purchase. An expiry date (MDF0035 ARTICLE_EXPIRY_DATE) can be stated. If stated, the expiry date has to be in the past (before MDF0006 DATA_DELIVERY_VALIDITY_START). Recommendation: To ensure that all customers are adequately informed about the discontinuation, the article should remain in the data delivery as EXPIRED for one year from the data delivery date.

After an article has been announced to customers as EXPIRED for long enough, it can be removed from the data delivery.

Examples article status	DATA_DELIVERY_VALIDITY_START	DATA_DELIVERY_VALIDITY_END	...	ARTICLE_STATUS	...	VALID_FROM	ARTICLE_EXPIRY_DATE
	MDF0006	MDF0402		MDF0501		MDF0034	MDF0035
New article (in the data delivery for the first time)	2025-01-01	2025-12-31		NEW		(2025-01-01) Leave empty or launch date starting at DATA_DELIVERY_VALIDITY_START or future (see example in the next line)	Leave empty
New article (launch date in the future)	2025-01-01	2025-12-31		NEW		2025-04-01 Launch date in the future (after DATA_DELIVERY_VALIDITY_START)	Leave empty
Active article	2025-01-01	2025-12-31		ACTIVE		(2024-01-01) Leave empty or launch date in the past (before DATA_DELIVERY_VALIDITY_START)	Leave empty
Expiring article	2025-01-01	2025-12-31		EXPIRING		(2024-01-01) Leave empty or launch date in the past (before DATA_DELIVERY_VALIDITY_START)	2025-12-31 Expiry date in the future (after DATA_DELIVERY_VALIDITY_START, up to two years in the future)

Expired article	2025-01-01	2024-12-31		EXPIRED		(2024-01-01) Leave empty or launch date in the past (before DATA_DELIVERY_VALIDITY_START)	2024-12-31 Expiry date in the past (before DATA_DELIVERY_VALIDITY_START)
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## 7.4 Prices

→ MDF0043 GROSS\_LIST\_PRICE\_EXCL\_TAX

The following price types have been defined for articles and can be stated:

- **GROSS\_LIST\_PRICE\_EXCL\_TAX:** Gross list price given by the supplier excluding sales tax. The list price has to be provided as soon as it is available in other publications issued by the industrial company.
- **REC\_RETAIL\_PRICE\_INCL\_TAX:** Non-binding recommended retail price to the end customer including sales tax.

Any selected price type requires indication of the relevant detailed information such as price value, PRICE\_QUANTITY, PRICE\_CURRENCY and PRICE\_UNIT.

### Price on request

→ MDF0042 PRICE\_ON\_REQUEST

If an article is labelled PRICE\_ON\_REQUEST “true”, it is not possible to state further prices (GROSS\_LIST\_PRICE\_EXCL\_TAX or REC\_RETAIL\_PRICE\_INCL\_TAX). An existing article must not be changed to price on request during its life cycle.

## 7.5 Order details (Explanation of difficult cases)

→ MDF0063 ORDER\_UNIT

These examples help to understand how **difficult order details** can be presented in the elements of BMDG.

The base item is the lowest level with its own identification and corresponds to 1 quantity of the order unit (MDF0063 ORDER\_UNIT). In these examples, all prices refer to the MDF0063 ORDER\_UNIT. The MDF0408 PRICE\_UNIT is the same as the MDF0063 ORDER\_UNIT.

All units other than PCE can be changed to other units. For example, a bag containing 10 kg would be presented the same way as example 4a Canister with screed additive.

**Example 1: Elbow pipe (default case):** Base item is one pipe (PCE).

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_T O_PIECE	CONVERSION_T O_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTE RVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	1	PCE	leave empty	leave empty	1	1	1

**Example 2: Screws:** Base item is one screw (PCE). Minimum order quantity is 200 screws.

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	1	PCE	leave empty	leave empty	200	200	1

**Example 2a: Screws in a box:** Base item is one box (PCE). One box contains 200 screws.

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	200	PCE	leave empty	leave empty	1	1	1

**Example 3: Tube on a roll:** Base item is one MTR. One roll of tube is 50 MTR which is the smallest logistical unit. Minimum order quantity is 50 MTR.

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	MTR	1	MTR	50	MTR	50	50	1

**Example 3a: Tube on a roll:** Base item is one roll (PCE). One roll of tube is 50 MTR. Minimum order quantity is one roll.

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	50	MTR	leave empty	leave empty	1	1	1

**Example 4: Canister with screed additive:** Base item is one LTR. One canister contains 10 LTR which is the smallest logistical unit. Minimum order quantity is 10 LTR.

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	LTR	1	LTR	10	LTR	10	10	1

**Example 4a: Canister with screed additive:** Base item is one canister (PCE). One canister contains 10 LTR. Minimum order quantity is one canister.

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_T O_PIECE	CONVERSION_T O_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTE RVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	10	LTR	leave empty	leave empty	1	1	1

**Example 5: Pipes in large bundle:** Base item is one MTR. One pipe is 6 MTR which is the smallest logistical unit. Minimum order quantity is 120 MTR (20 pipes).

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_T O_PIECE	CONVERSION_T O_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTE RVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	MTR	1	MTR	6	MTR	120	120	1

**Example 5a: Pipes in large bundle:** Base item is one pipe (PCE). One pipe is 6 MTR. Minimum order quantity is 20 pipes (120 MTR).

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_T O_PIECE	CONVERSION_T O_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTE RVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	6	MTR	leave empty	leave empty	20	20	1

**Example 5b: Pipes in large bundle:** Base item is one large bundle (PCE). One large bundle contains 120 MTR. Minimum order quantity is one bundle.

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_T O_PIECE	CONVERSION_T O_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTE RVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	120	MTR	leave empty	leave empty	1	1	1

**Example 6: Knob plate:** Base item is one square metre (MTK). One piece which is the smallest logistical unit is 1,12 MTK. Minimum order quantity is rounded to 13 MTK (12 knob plates).

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTER_VAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	MTK	1	MTK	1,12	MTK	13	13	1

**Example 6a: Knob plate:** Base item is one knob plate (PCE). One piece is 1,12 MTK. Minimum order quantity is 12 knob plates (rounded to 13 MTK).

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTER_VAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	1,12	MTK	leave empty	leave empty	12	12	1

**Example 7: Repair kit:** The set contains seals in different sizes.

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTER_VAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	1	SET	leave empty	leave empty	1	1	1

**Example 8: Bathtub feet:** The base item is one bag (PCE). The base item is a set of 9 bathtub feet.

	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTER_VAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	1	SET	leave empty	leave empty	1	1	1

## 7.6 Packaging units

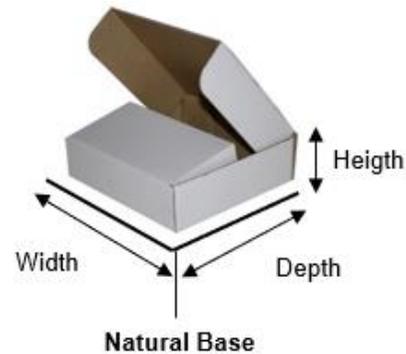
→ 4.4 PackagingUnits

Up to five different packaging units can be given for every article. The packaging units have to be given without a space and in ascending quantity of the article contained therein, with the quantity and weight getting bigger in ascending order.

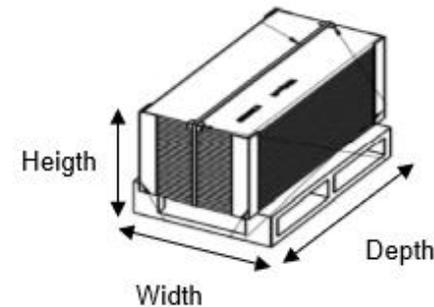
The statement of a GTIN at the packaging unit serves for the identification and has to correspond to the packaging unit. The GTIN of the article may only be used if the quantity of the packaging unit is "1". In this case, the GTIN has also to be stated at the article. If a GTIN is stated at the packaging unit, a GTIN has to be in place at the article as well. Exceptions to this are articles which are invoiced by length, surface, volume or weight as well as articles (e.g. package screws) which are not individually wrapped as standard.



Base article



Dimensions of the base article individually packaged



Dimensions of articles on a pallet

**Example 2: Screws:** Base item is one screw (PCE). Minimum order quantity is 200 screws.



Basic article



Packaging unit 1



Packaging unit 2

	PRICE_QUANTITY	PRICE_UNIT	ORDER_UNIT	QUANTITY_MIN	NET measurements	Packaging unit 1	Packaging unit 2
	MDF0041	MDF0408	MDF0063	MDF0062	MDF0050 - ...		
1	PCE	PCE	200	NET_WIDTH, NET_DEPTH, NET_HEIGHT, NET_WEIGHT, NET_VOLUME of the single screw	Box 200 pieces; 64 x 126 x 60, weight of the box	Box 800 pieces; 130 x 260 x 65, weight of the box	

**Example 6: Knob plate:** Base item is one square metre (MTK). One piece which is the smallest logistical unit is 1,12 MTK. Minimum order quantity is rounded to 13 MTK (12 knob plates).

1 MTK

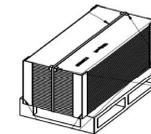


Basic article

Packaging unit 1



Packaging unit 2



Packaging unit 3

	PRICE_QUANTITY	PRICE_UNIT	ORDER_UNIT	QUANTITY_MIN	NET measurements	Packaging unit 1	Packaging unit 2	Packaging unit 3
	MDF0041	MDF0408	MDF0063	MDF0062	MDF0050 - ...			
MTK	1,12	MTK	13	irrelevant	plate 1,12 MTK; 1440 x 800 x 70, weight of the plate	box 14,56 MTK; 1510 x 890 x 380, weight of the box	pallet 72,8 MTK; 1510 x 890 x 2300, weight of the pallet	

## 7.7 Attachments

→ 4.5 Attachments

Attachments related to an article can be transmitted in the form of image data (colour images, line drawings, milieu images) and complementary documents (e.g. installation instructions, data sheets, videos, CAD drawings). Several images can be stored for one article.

The file naming convention for image and document files **limits the file name to 256 characters** at maximum incl. dot and file extension. The permitted characters are alphanumeric including underscore and hyphen, with precisely one dot before the file extension. The file name may not contain any umlauts, special characters, blanks or further dots. The file name can be upper and/or lower case; for technical reasons, all will be converted to lower case after processing.

### Pictures

→ MDF0141 ATTACHMENT\_TYPE

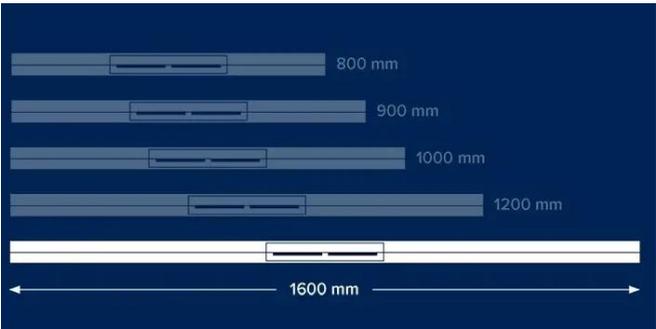
→ 5.7 Attachment type

All articles and spare parts from the assortment are allocated an image or a substitute image if necessary, which, as a rule, has to be marked in the data record as a substitute (MDF0142 REPRESENTATIVE\_PICTURE "true"). Several images can be stored with one article.

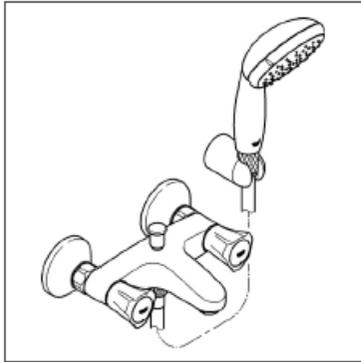
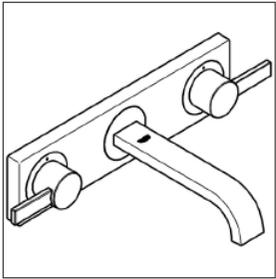
With regard to the usage of image files, there is a distinction between web images and print images (MDF0414 ATTACHMENT\_USE).

If more than one file is stated for an image type, the description (MDF0144 ATTACHMENT\_DESCRIPTION) should be used and the sorting sequence (MDF0415 ATTACHMENT\_ORDER) has to be used, in order to obtain a differentiation of the files and a unique indication.

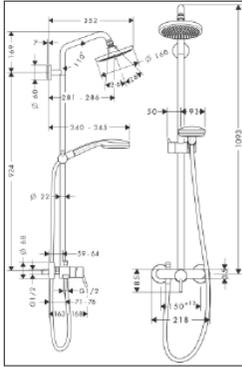
### Examples of the different attachment types for Pictures (P01-P99)

<p><b>P01 Picture</b></p> 	<p><b>P05 Logo / pictogram</b></p> 	<p><b>P06 Selection diagram (design chart)</b></p> 
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P07 Line drawing



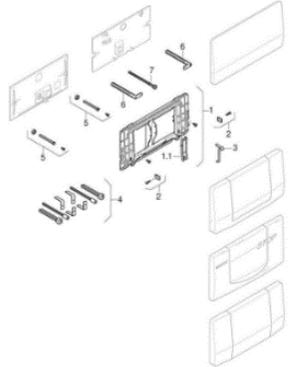
P08 Dimension drawing



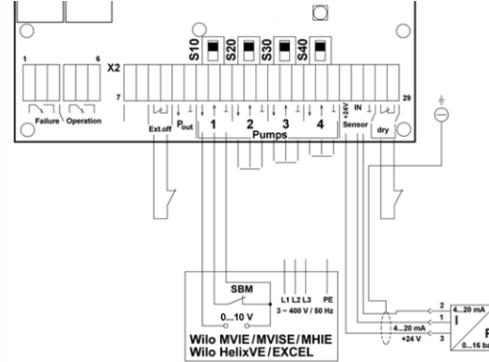
P09 Ambient picture (milieu image)



P10 Exploded drawing



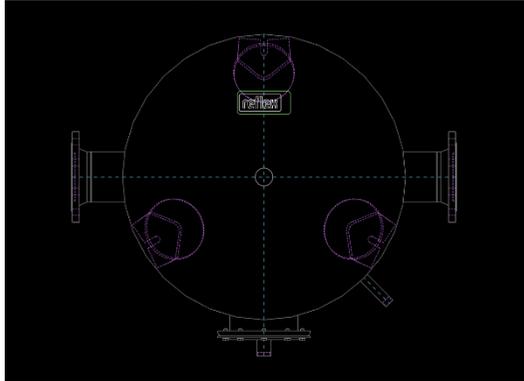
P12 Wiring diagram



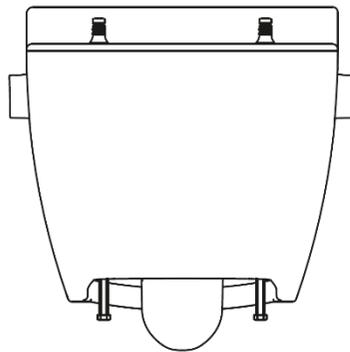
P13 Detail image / view



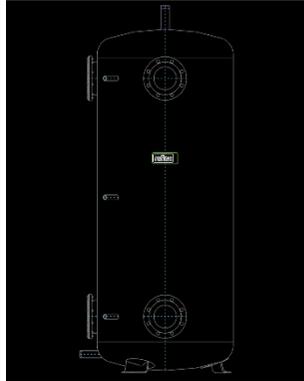
P14 2D CAD top view

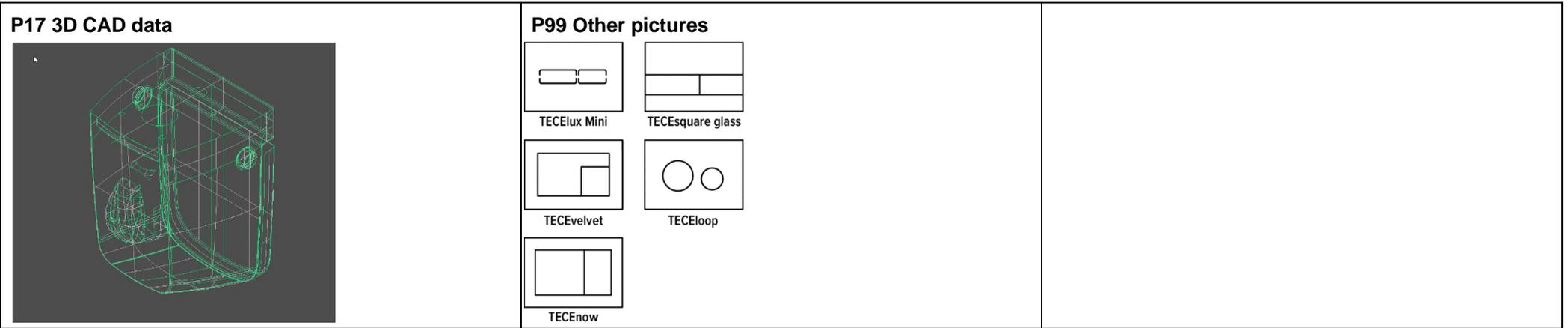


P15 2D CAD frontal



P16 2D CAD side view





## Documents

→ MDF0141 ATTACHMENT\_TYPE

→ 5.7 Attachment type

All other media data that do not correspond to the attachment type Pictures are by definition documents. Documents linked to an article can be complementary and informative or mandatory, e.g. a HAZMAT data sheet with hazardous goods. Several documents of one document type can be stored with one article. Documents corresponding to several document types with regard to content can be assigned multiple times with the according document types.

Complementary documents can be provided to the master data server in standard formats, i.e. there is no limitation to particular formats.

If more than one file is stated for an image type, the description (MDF0144 ATTACHMENT\_DESCRIPTION) and the sorting sequence (MDF0415 ATTACHMENT\_ORDER) should be used, in order to obtain a differentiation of the files and a unique indication.

## 7.8 Specifications

→ 4.6 Specifications

→ 5.13 Specification system

Attributes are used to transmit the extended characteristics and forms of an article.

Various content is mapped with attributes. This includes:

- ETIM classification
- ETIM dynamic version
- UNSPSC
- Individ
- Additional values
- Regulations

In this example, various content is stated in the table Specifications.csv.

SUPPLIER_ARTICLE_NUMBER	SPECIFICATION_SYSTEM	SPECIFICATION_CLASS_CODE	FEATURE_CODE	FEATURE_VALUE_CODE_1	FEATURE_VALUE_CODE_2	FEATURE_UNIT	FEATURE_VALUE_DETAILS
MDF0021	MDF0150	MDF0151	MDF0152	MDF0153	MDF0154	MDF0155	MDF0156
4711	ETIM 8	EC011550	EF002169	EV000572			
4711	ETIM 8	EC011550	EF001257	EV000154			
4711	ETIM 8	EC011550	EF000051	EV000396			
4711	ETIM 8	EC011550	EF020706	1			
4711	ETIM 8	EC011550	EF011666	540	543		
...							
4711	REGULATIONS	REACH	IDENTIFICATION	false			
4711	REGULATIONS	REACH	DATE	2022-01-20			
4711	REGULATIONS	HAZARDOUS_GOODS	IDENTIFICATION	false			
4711	REGULATIONS	ECHA_DB	IDENTIFICATION	false			
...							
4711	REGULATIONS	BATTERY	IDENTIFICATION	true			
4711	REGULATIONS	BATTERY	BATTERY_TYPE	LIIO			1
4711	REGULATIONS	BATTERY	BATTERY_WEIGHT	0,046			1
4711	REGULATIONS	BATTERY	BATTERY_TYPE	BPAL			2

Depending on the content, different definitions apply for the fields being used. In the following, this is defined for different content.

## 7.9 ETIM classification

→ 5.13 Specification system

ETIM is a widely used international classification standard for technical products. Products in ETIM are divided into product groups and product classes. Each product class is assigned to a single product group. As the group level was solely instated to enable easy product class management, the classification in the article master data focuses on the classes and associated features.

A class in ETIM describes similar products and bundles products from different manufacturers or suppliers. All product classes have different features to specify the technical characteristics of the products in the class. A feature is clearly described by description, feature type, unit and/or value.

The value or values of the feature is/are stated according to the specifications of the feature. Since the unit for the feature is fixed for most ETIM features, **no unit** may be **specified** for the feature in order to prevent errors.

## 7.10 Additional values

→ 5.14 Classes and attribute names in Specification system ADDITIONAL\_VALUES

Under additional values, further information on articles can be provided. At the moment, there are three possible uses.

### Keywords

Individual keywords for articles can be entered under Keywords. These keywords can be, for example, used for tagging or search engine optimisation.

### Variation

The variation is **indicated by specifying the corresponding differentiating ETIM characteristics** in the table Specifications.csv. In order for the values to be used to specify the variation, they must be specified in full under the ETIM specification system.

The **differentiating characteristics** can be **divided into MAIN and ADDITIONAL**. MAIN is used for the main differentiating attribute of articles within the product model or series (if there is no model family). Only one main differentiator is possible. ADDITIONAL is used for additional differentiating attribute of articles within the product model or series (if there is no model family). Multiple additional differentiators are possible.

SUPPLIER_ARTICLE_NUMBER	SPECIFICATION_SYSTEM	SPECIFICATION_CLASS_CODE	FEATURE_CODE	FEATURE_VALUE_CODE_1	FEATURE_VALUE_CODE_2	FEATURE_UNIT	FEATURE_VALUE_DETAILS
MDF0021	MDF0150	MDF0151	MDF0152	MDF0153	MDF0154	MDF0155	MDF0156
4711	ADDITIONAL_VALUES	KEYWORDS	KEYWORD	Washbasin mixing tap			
4711	ADDITIONAL_VALUES	KEYWORDS	KEYWORD	Sensor mixing tap			
4711	ADDITIONAL_VALUES	VARIATION	MAIN	EF016912			
4711	ADDITIONAL_VALUES	VARIATION	ADDITIONAL	EF002671			
4711	ADDITIONAL_VALUES	VARIATION	ADDITIONAL	EF025109			

The variation in the example is stated for a washbasin mixing tap (ETIM class EC011328). The main variation is ETIM feature EF016912 (type of electronic operating method). The corresponding ETIM feature value is already available by specifying the ETIM values in the specification system ETIM.

The additional variation is stated with ETIM feature EF002671 (basic colour) and EF025109 (surface protection). Further additional distinctions can be specified.

### Priority

Under priority, a voluntary indication of a ranking of the importance of the articles can be given. High numbers indicate a higher priority, lower numbers indicate a lower priority. The numbers can be extrapolated from sales data, for example. The priority is used to display the most important articles on the first pages of the article search of Building Masterdata.

## 7.11 Regulations

→ 5.13 Specification system

Given the extensive mapping of content in the REGULATIONS area, there are numerous tables dedicated to this specification system. This overview shows which tables are used in which column of the table Specifications.csv.

SUPPLIER_ARTICLE_NUMBER	SPECIFICATION_SYS TEM	SPECIFICATION_CLA SS_CODE	FEATURE_CODE	FEATURE_VALUE_C ODE_1	FEATURE_VALUE_C ODE_2	FEATURE_UNIT	FEATURE_VALUE_D ETAILS
MDF0021	MDF0150	MDF0151	MDF0152	MDF0153	MDF0154	MDF0155	MDF0156
...	REGULATIONS (Value list 5.13)	Value list 5.15	Value list 5.16	e.g., Value list 5.17-5.21			

First, the specification system REGULATIONS is stated. Next, the specification class code from value list 5.15 Classes in Specification system REGULATIONS is stated. The corresponding feature code can be found in value list 5.16 Classes and attribute names in Specification system REGULATIONS. The class is listed again in the first column of this value list for orientation purposes. If there is a codified value, the value is stated in value list 5.17 to 5.21.

### 7.11.1 Energy efficiency classes

→ 5.15 Classes in Specification system REGULATIONS

→ 5.16 ERP

→ 5.17 Energy efficiency class in Classification ERP

Energy efficiency is a measure of the amount of energy used to achieve a defined benefit from products. The labelling of the energy consumption of different products serves to support the purchase decision. It provides information about the energy efficiency during use (economic principle). A well-known example is the EU energy label for electrical appliances. The areas have been defined with the corresponding regulations. However, not all energy efficiency classes, e.g. for circulation pumps or fans, have been defined yet.

### 7.11.2 REACH regulation

→ 5.16 REACH

Articles and ingredients of articles that are listed as substances of very high concern under REACH have to be labelled in the data delivery. Regulation (EC) No 1907/2006 (REACH Regulation) is an EU chemicals regulation that came into force on 1 June 2007. REACH stands for the Registration, Evaluation, Authorisation and Restriction of Chemicals. As an EU regulation, REACH is equally and directly applicable in all member states.

### 7.11.3 Information on hazardous substances

→ 5.16 HAZARDOUS\_SUBSTANCES

→ 5.19 Attribute values in Classification HAZARDOUS\_SUBSTANCES

If an article is classified as a hazardous substance in the sense of substances and mixtures (“CLP Regulation”), this article must be labelled accordingly. In addition, relevant information must be provided for the processes in a structured manner in line with the Safety Data Sheet.

### 7.11.4 Battery information

→ 5.16 BATTERY

→ 5.20 Attribute values in Classification BATTERY

As of 1 January 2020 the summary of the results of the required tests shall be made available to any natural or legal person in the supply chain for lithium batterie and products including them. Proof must be provided in the form of the standardised UN 38.3 report of the United Nations. The legislation here already covers products manufactured after 30 June 2003.

The building services sector also has corresponding products, such as electronic fittings with batteries, cosmetic mirrors with rechargeable batteries or pressing tools with rechargeable batteries. The necessary information could not be determined so far.

Articles that contain lithium batteries and are subject to mandatory labelling in accordance with the currently valid ADR must be labelled accordingly. For articles with labelling, the additional document S03 Test report lithium batteries must be assigned to the article and transferred. Furthermore, it must be indicated whether the article is labelled accordingly on dispatch (battery pictogram).

**Multiple batteries can be included** in one article. These batteries can be listed with all attributes. For this purpose, the corresponding number of the battery is listed under MDF0156 FEATURE\_VALUE\_DETAILS in each row, as shown in this [example](#).

## 7.12 Country-specific

→ 4.8 Country-specific

→ 6 Country-specific value lists

### Example for Italy:

SUPPLIER_ARTICLE_NUMBER	CS_CODE	CS_VALUE
MDF0021	MDF0450	MDF0451
JKS300062011	IT_ACRONYM_BRAND	ABC
JKS300062011	IT_PRODUCT_CHOICE	1
JKS300062011	IT_STATUS_OF_PRODUCT	R
JKS300062011	IT_DATA_STATUS	2023-01-01
JKS300062012	IT_PACKAGING_TIPPING	false
...	...	...

### Example for Netherlands:

SUPPLIER_ARTICLE_NUMBER	CS_CODE	CS_VALUE
MDF0021	MDF0450	MDF0451
JKS300062011	NL_COUNTRY_OF_DELIVERY_ORIGIN	DE
JKS300062011	NL_ORDERABLE_INDICATOR	true
JKS300062011	NL_FRAGILE_ON_PACKAGE	false
JKS300062011	NL_BEST_BEFORE_DATE_ON_PACKAGE	false
...	...	...

## 8 Changelog history

The changes between different BMDG versions are quite comprehensive, so the changes will not be explained in detail in this document. Instead, the changes will be summarised.

An extensive Excel sheet that documents all the changes in detail can be found [here](#).

### 8.1 Changelog Version 3.0 from 2024-12-01

This is the changelog for BMDG Version 3.0. Important changes in the descriptions are written in bold letters.

#### Requirements for data delivery

Format type	Description
Decimal	Changed to format type Number
Number	x,y means a total of x places with y decimal places x,0 describes a whole number without decimal places Valid characters: 0-9 Decimal separator: Comma (,)
Integer	Deleted. All content previously defined by this format is now defined by the number format. The value is stated as x,0 which describes a whole number without decimal places.

#### New HTML values for tables introduced

Tables	<table>, <tr>, <th>, <td>
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#### Header.csv

Name	Unique identifier	Change in column	Old value	New value
SUPPLIER_GLN	MDF0002	Format	Integer	Number
SUPPLIER_GLN	MDF0002	Length / Details	13	13,0
SUPPLIER_DUNS	MDF0003	Format	Integer	Number
SUPPLIER_DUNS	MDF0003	Length / Details	9	9,0
LANGUAGE	MDF0008	Format	Value list 5.6	Value list 5.5
MEASUREMENT_SYSTEM	MDF0500	New		

#### Article.csv

Name	Unique identifier	Change in column	Old value	New value
ARTICLE_TYPE	MDF0405	Format	Value list 5.9	Value list 5.8
ARTICLE_STATUS	MDF0501	New		
TEXT_150	MDF0406	Description	This is an article description with a maximum length of 150 characters. [...]	This is an article description with a maximum length of 150 characters. [...] <b>Exception: Spare parts, discontinued articles and their successors may have the same article texts. In case of spare parts, the article number can be included to ensure uniqueness. [...]</b>
PRODUCT_SERIES	MDF0407	Length / Details	50	200
PRODUCT_MODEL_ID	MDF0407	Name	PRODUCT_MODEL	PRODUCT_MODEL_ID
PRODUCT_MODEL_ID	MDF0407	Description	Grouping of articles to a product, typically on a catalogue page of articles. It should be used for commercial marketing purposes.	Grouping of articles <b>that differ by specific characteristics into a product model. Typically shown together on one catalogue page. PRODUCT_MODEL_ID contains the ID to MDF0502 PRODUCT_MODEL_DESCRIPTION.</b>
PRODUCT_MODEL_DESCRIPTION	MDF0502	New		
PRODUCT_VARIATION	MDF0025	Transferred to Specifications.csv		
VALID_FROM	MDF0034	Description	Date from which the article is added to the assortment. Any article specific date (MDF0034 VALID_FROM and MDF0035 ARTICLE_EXPIRY_DATE) has priority over the data delivery validity. To be filled if the article has a different validity date than the data delivery validity (MDF0006 DATA_DELIVERY_VALIDITY_START). * Note: Mandatory for FAB-DIS data delivery.	Date from which the article is <b>expected to be available. The date only needs to be filled in if it differs from MDF0006 DATA_DELIVERY_VALIDITY_START. Any article-specific data has priority over the data delivery validity. The validity is particularly important for the ARTICLE_STATUS 'NEW'. It is non-binding and can be changed in subsequent data deliveries.</b> * Note: Mandatory for FAB-DIS data delivery.
ARTICLE_EXPIRY_DATE	MDF0035	Description	Indication of the expected expiry date [...].	Indication of the expected expiry date [...]. <b>Depending on clearance sales, stocks may be depleted sooner or later.</b>
STANDARD_DELIVERY_PERIOD	MDF0040	Format	Integer	Number
STANDARD_DELIVERY_PERIOD	MDF0040	Length / Details	3 (1-999)	3,0 (1-999)
STANDARD_DELIVERY_PERIOD	MDF0040	Description	Number of working days (excl. national holidays and weekends) between order creation and arrival / availability of the goods at the market partner. [...] [....]	Number of working days (excl. national holidays and weekends) between order creation and arrival / availability of the goods at the market partner. [...] <b>No legal obligation for actual delivery arises from this date.</b> [...]

PRICE_QUANTITY	MDF0041	Format	Integer	Number
PRICE_QUANTITY	MDF0041	Length / Details	8	8,0
PRICE_CURRENCY	MDF0045	Format	Value list 5.7	Value list 5.6
PRICE_CURRENCY	MDF0045	Description	Currency of the prices. Conditionally mandatory if MDF0043 GROSS_LIST_PRICE_EXCL_TAX and / or MDF0044 REC_RETAIL_PRICE_INCL_TAX are filled.	Currency of the prices, <b>preferably in respective national currency.</b> Conditionally mandatory if MDF0043 GROSS_LIST_PRICE_EXCL_TAX and / or MDF0044 REC_RETAIL_PRICE_INCL_TAX are filled <b>in.</b>
CUSTOMS_TARIFF_NUMBE R	MDF0047	Format	Integer	Number
CUSTOMS_TARIFF_NUMBE R	MDF0047	Length / Details	8	8,0
NET_WIDTH	MDF0050	Description	Net width of the content of one article without packaging. [...]	Net width of the content of one article without packaging. [...] <b>The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.</b>
NET_WIDTH_UNIT	MDF0051	Deleted		
NET_DEPTH	MDF0052	Description	Net depth of the content of one article without packaging. [...]	Net depth of the content of one article without packaging. [...] <b>The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.</b>
NET_DEPTH_UNIT	MDF0053	Deleted		
NET_HEIGHT	MDF0054	Description	Net height of the content of one article without packaging. [...]	Net height of the content of one article without packaging. [...] <b>The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.</b>
NET_HEIGHT_UNIT	MDF0055	Deleted		
NET_WEIGHT	MDF0056	Description	Net weight of the content of one article without packaging. [...]	Net weight of the content of one article without packaging. [...] <b>The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.</b>
NET_WEIGHT_UNIT	MDF0057	Deleted		
NET_VOLUME	MDF0503	New		
QUANTITY_EXEMPTION	MDF0504	New		
STOCK_ARTICLE	MDF0505	New		
PACKING_PARTS	MDF0132	Required	O	C
PACKING_PARTS	MDF0132	Format	Integer	Number
PACKING_PARTS	MDF0132	Length / Details	2 (1-99)	2,0 (1-99)

PACKING_PARTS	MDF0132	Description	Quantity stating how many packages the article consists of [...]	Quantity stating how many packages the article consists of [...] <b>If the packing parts fit on one Euro pallet, it is possible to specify the dimensions of the entire pallet/packing unit in the table PackagingUnits.</b> <b>Conditionally mandatory for articles with ARTICLE_TYPE STD and SP.</b>
SHELF_LIFE_PERIOD	MDF0065	Format	Integer	Number
SHELF_LIFE_PERIOD	MDF0065	Length / Details	2 (1-99)	2,0 (1-99)
SHELF_LIFE_PERIOD	MDF0065	Description	Shelf life is the period of time, from the date of manufacture, that an article is expected to remain within its approved product specification while stored under defined conditions. [...]	Shelf life is the period of time from the date of manufacture that an article is expected to remain within its approved product specification while stored under defined conditions. [...] <b>This detail does not provide any information on possible warranty claims, potential temporary storage of an article or legal requirements.</b>
WARRANTY_BUSINESS	MDF0412	Format	Integer	Number
WARRANTY_BUSINESS	MDF0412	Length / Details	2 (1-99)	3,0 (1-999)
WARRANTY_BUSINESS	MDF0412	Description	Warranty in months, beginning with the date of selling. Indication of the period in months 1-99; 99 means lifelong warranty. [...]	Warranty in months, beginning with the date of <b>sale</b> . Indication of the period in months <b>1-999</b> ; <b>999</b> means lifelong warranty. [...]

### Description.csv

Name	Unique identifier	Change in column	Old value	New value
TEXT_40_1	MDF0100	Description	Very short description of an article, e.g., for ERP systems or invoices / delivery notes.	Very short description of an article, [...]. <b>Exception: Discontinued articles and their successors may have the same article texts.</b>
TEXT_40_2	MDF0101	Description	This is an addition to attribute MDF0100 TEXT_40_1. If filled, the combination of TEXT_40_1 plus TEXT_40_2 must make unique descriptions of the article and helps the recipients to process it into two fields.	This is an addition to attribute MDF0100 TEXT_40_1. The combination of TEXT_40_1 plus TEXT_40_2 must make unique descriptions of the article and helps recipients to process it into two fields. <b>Exception: Discontinued articles and their successors may have the same article texts.</b>
TEXT_256	MDF0103	Description	This longer text is an article-identifying, unambiguous description [...].	This longer text is an article-identifying, unambiguous description [...]. <b>Exception: Discontinued articles and their successors may have the same article texts.</b>
TEXT_ARTICLE_DESCRIPTOR	MDF0413	Description	Extensive description of the article [...], preferably in HTML format.	Extensive description of the article [...]. <b>It includes references to standards or safety instructions and information on components or mandatory accessories.</b>

				<b>HTML is mandatory.</b>
TEXT_MARKETING	MDF0104	Description	The marketing text is a user-oriented description [...]. HTML is possible.	The marketing text is a user-oriented description [...]. <b>HTML is mandatory.</b>
TEXT_APPLICATION_PURPOSE	MDF0105	Description	This attribute explains on a deeper level [...]. HTML is possible. Note: Not suitable for heating and cooling systems.	This attribute explains how <b>to use or not use</b> this product from a technical perspective <b>on a deeper level. The application purpose provides advice on processing techniques that deviate from standard procedures (e. g. reference to special tools).</b> HTML is <b>mandatory.</b> Note: Not suitable for heating and cooling systems.
TEXT_USP	MDF0506	New	9	9,0
DEEP_LINK_URL	MDF0106	Description	A deep link (URL) redirects to a relevant webpage of the supplier or manufacturer company, where further information on the article may be found.	A deep link (URL) redirects to a relevant webpage <b>from</b> the supplier or manufacturer, where further information on the article may be found. <b>The URL has to be SSL encrypted.</b>
SPARE_PARTS_URL	MDF0507	New		

### PackagingUnit.csv

Name	Unique identifier	Change in column	Old value	New value
PACKAGING_UNIT_GTIN	MDF0122	Required	O	C
PACKAGING_UNIT_GTIN	MDF0122	Description	The GTIN for the packaging unit. [...]	The GTIN for the packaging unit. [...] <b>Conditionally mandatory for the first packaging unit level with packaging unit quantity 1 if there is a GTIN for the article.</b> <b>More precise: Conditionally mandatory for the first packaging unit level with MDF0121 PACKAGING_UNIT_QUANTITY=1 if there is a GTIN of the article (MDF0022 SUPPLIER_GTIN) as the GTIN is the same for both.</b>
PACKAGING_UNIT_CODE	MDF0123	Format	Value list 5.5	Value list 5.4
PACKAGING_UNIT_WIDTH	MDF0124	Description	Width [...].	Width [...]. <b>The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.</b>
PACKAGING_UNIT_WIDTH_UNIT	MDF0125	Deleted		
PACKAGING_UNIT_DEPTH	MDF0126	Description	Depth [...].	Depth [...]. <b>The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.</b>

PACKAGING_UNIT_DEPTH_UNIT	MDF0127	Deleted		
PACKAGING_UNIT_HEIGHT	MDF0128	Description	Height [...].	Height [...]. <b>The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.</b>
PACKAGING_UNIT_HEIGHT_UNIT	MDF0129	Deleted		
PACKAGING_UNIT_WEIGHT	MDF0130	Description	Weight [...].	Weight [...]. <b>The corresponding unit is specified in MDF0500 MEASUREMENT_SYSTEM.</b>
PACKAGING_UNIT_WEIGHT_UNIT	MDF0131	Deleted		
PACKAGING_UNIT_VOLUME	MDF0508	New		

#### Attachments.csv

Name	Unique identifier	Change in column	Old value	New value
ATTACHMENT_FILENAME	MDF0140	Length / Details	100	256
ATTACHMENT_TYPE	MDF0141	Format	Value list 5.8	Value list 5.7
REPRESENTATIVE_PICTURE	MDF0142	Description	Representative image [...].	Representative image [...]. <b>The value "true" can only be used if MDF0141 ATTACHMENT_TYPE is a picture P01-P13.</b>
ATTACHMENT_URL	MDF0143	Description	Direct URL to the attachment/digital asset on the supplier's webpage.	Direct URL to the attachment/digital asset on the supplier's webpage. <b>The URL has to be SSL encrypted.</b>
ATTACHMENT_DESCRIPTION	MDF0144	Description	Detailed description of the content [...].	<b>Description</b> of the content [...].
ATTACHMENT_EXPLANATION	MDF0509	New		
ATTACHMENT_ORDER	MDF0415	Format	Integer	Number
ATTACHMENT_ORDER	MDF0415	Length / Details	2 (1-99)	2,0 (1-99)
ATTACHMENT_ORDER	MDF0415	Description	Order of the attachments of an article if there are multiple attachments with the same MDF0141 ATTACHMENT_TYPE. [...]	Order of the attachments of an article if there are multiple attachments with the same MDF0141 ATTACHMENT_TYPE and <b>MDF0414 ATTACHMENT_USE</b> . [...]

## Specifications.csv

Name	Unique identifier	Change in column	Old value	New value
SPECIFICATION_CLASS_CODE	MDF0151	Required	M	C
SPECIFICATION_CLASS_CODE	MDF0151	Format	String	String or value lists 5.14, 5.15
SPECIFICATION_CLASS_CODE	MDF0151	Description	Allocation to a specification class.	Allocation to a specification class. <b>Conditionally mandatory for all SPECIFICATION_SYSTEM except INDIV.</b>
FEATURE_CODE	MDF0152	Format	String	String or value lists 5.14, 5.16
FEATURE_VALUE_CODE_1	MDF0153	Format	String	String or value lists 5.17, 5.18, 5.19, 5.20, 5.21

## Country-specific.csv

Name	Unique identifier	Change in column	Old value	New value
CS_CODE	MDF0450	Description	Stating the country-specific code. [...]. Note: Only country-specific codes for the country stated in MDF0007 COUNTRY can be used.	Stating the country-specific code. [...]. Note: Only country-specific codes for the country stated in MDF0007 COUNTRY <b>should</b> be used.

## Value lists

- Value list 5.1 Units: New values for imperial measurements
- Value list 5.2 Countries: Further country value list deleted, reference to complete ISO list
- Value list 5.4 Weight units deleted
- Value list 5.7 Attachment type new values D08 Environmental Product Declaration (EPD, France FDES), D09 Other sustainability certificate, M05 Brochure
- Value list 5.8 Article type: Changed values; SPA: Spare part, SER: Service / software
- New value list 5.9 Article status
- Value list 5.12 Relation type new value CROSSSELLING
- Value list 5.13 Specification system new spelling of the ETIM codes (ETIM 9, etc.), new value ETIM 10, new value ADDITIONAL\_VALUES
- New value list 5.14 Class and attribute name in Specification system ADDITIONAL\_VALUES
- Value list 5.15 Classes in Specification system REGULATIONS new values ROHS, CE, ELECTRIC\_COMPONENT

- Value list 5.16 Attribute name in Specification system REGULATIONS new column for possible values, new values ROHS IDENTIFICATION, CE IDENTIFICATION, BATTERY\_TYPE, BATTERY\_IEC\_CODE, BATTERY\_LOCATION, BATTERY\_QUANTITY, BATTERY\_WEIGHT, BATTERY\_CAPACITY\_AH, BATTERY\_VOLTAGE, ELECTRIC\_COMPONENT IDENTIFICATION
- Value list 5.20 Attribute values in Classification BATTERY new values

## 8.2 Changelog Version 2.1 from 2023-02-01

Important changes in the descriptions are written in bold letters.

Header.csv

Name	Unique identifier	Change in column	Old value	New value
CATALOGUE_NAME	MDF0005	Description	Descriptive name of the catalogue. It is used to differentiate multiple assortments of the same supplier. The CATALOGUE_NAME is linked to the CATALOGUE_ID and remains unchanged for all data deliveries throughout the multi-year lifecycle of the catalogue. Therefore, no date is allowed to be used in the CATALOGUE_NAME.	Descriptive name of the catalogue. It is used to differentiate multiple assortments of the same supplier. <b>The CATALOGUE_NAME is the last part of the CATALOGUE_ID</b> and remains unchanged for all data deliveries throughout the multi-year lifecycle of the catalogue.
BMDG_VERSION	MDF0009	Description	Version of the BMDG data standard on which the data delivery is based on.	Version of the BMDG data standard on which the data delivery is based on <b>stated as BMDGx.y.</b>

Article.csv

Name	Unique identifier	Change in column	Old value	New value
PRICE_UNIT	MDF0408	Description	Unit of the price. The PRICE_UNIT deviates from the MDF0063 ORDER_UNIT only in exceptional cases.	Unit of the price. <b>The PRICE_UNIT is the same as the MDF0063 ORDER_UNIT.</b>
ORDER_UNIT	MDF0063	Description	Unit in which the article can be ordered. It is equal to the base item. It is only possible to order multiples of this unit. [...]	Unit in which the article can be ordered. It is equal to the base item. It is only possible to order multiples of this unit. <b>The ORDER_UNIT of the article has to remain unchanged.</b> [...]
CONVERSION_TO_PIECE	MDF0410	Format	Integer	Number
CONVERSION_TO_PIECE	MDF0410	Length / Details	5	16,3
PACKING_PARTS	MDF0132	Description	Quantity stating how many packages the article consists of, e.g., a shower screen is delivered in 2 boxes (=2 packages).	Quantity stating how many packages the article consists of, e.g., a shower screen is delivered in 2 boxes (=2 packages). <b>If PACKING_PARTS&gt;1, then no packaging units can be specified.</b>

## Attachments.csv

Name	Unique identifier	Change in column	Old value	New value
ATTACHMENT_USE	MDF0414	Description	Use of the attachment: web (preferably RGB colour space) or print image (preferably CMYK colour space). Conditionally mandatory if MDF0141 ATTACHMENT_TYPE is a picture "Pxx". [...]	Use of the attachment: web ( <b>in RGB colour space</b> ) or print image ( <b>in CMYK colour space</b> ). Conditionally mandatory if MDF0141 ATTACHMENT_TYPE is a <b>picture P01-P13</b> . [...]
ATTACHMENT_DESCRIPTION	MDF0144	Description	Detailed description of the content of the allocated attachment / digital asset, e.g., front view, top view, side view for dimension drawings or DWG, ArchiCAD, Revit for planning data.	Detailed description of the content of the allocated attachment / digital asset, e.g., front view, top view, side view for dimension drawings or DWG, ArchiCAD, Revit for planning data.  <b>Recommendation: If MDF0141 ATTACHMENT_TYPE is other (X99) or there are multiple attachments of the same type for one article, an attachment description can be helpful to customers.</b>
ATTACHMENT_ORDER	MDF0415	Required	O	C
ATTACHMENT_ORDER	MDF0415	Description	Order of the attachments of an article if there are multiple attachments with the same MDF0141 ATTACHMENT_TYPE. This is used as sorting when the attachments are displayed.	Order of the attachments of an article if there are multiple attachments with the same MDF0141 ATTACHMENT_TYPE. This is used as sorting when the attachments are displayed.  <b>Conditionally mandatory if there are multiple attachments of the same type for one article.</b>

## Value lists

Name	Unique identifier	Change in column	Old value	New value
Specification system		Value	UNSPC	UNSPSC

## Text changes in this document

- Chapter 4 has been renamed Tables and attributes
- CATALOGUE\_NAME MDF0005: Example corrected
- CATALOGUE\_VERSION MDF0011: Example corrected
- NAME\_OF\_DATA\_CREATOR MDF0290: Description corrected (\* Note: Mandatory for FAB-DIS data delivery.)
- SUPPLIER\_GTIN MDF0022: Description corrected
- PRICE\_QUANTITY MDF0041: Description corrected
- PRICE\_CURRENCY MDF0045: Description corrected

- PRICE\_UNIT MDF0408: Description corrected
- Chapter 4.4 PackagingUnits: Introductory text specified and supplemented
- ATTACHMENT\_DESCRIPTION MDF0144: Example corrected
- Chapter 4.6 Specifications: Introductory text supplemented
- Value list 5.8 Attachment type: CAD added to description
- Value list 5.12 Relation type CONSISTS\_OF: Description corrected
- Value list 5.13 Specification system: Recommendation of complete deliveries in one ETIM version
- Chapter 7.1 Order details: Examples Repair kit and bathtub feet updated
- Chapter 7.2 Specifications: Further explanations of value list use for Specification system REGULATIONS

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