BMDG 2.1
high quality product data

BUILDING MASTER DATA GUIDELINE
www.building-masterdata.com

DETAILED EXPLANATIONS

Version 2.1
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/ARGE
Building digital competence

Table of contents

1 Changelog

Version 2.1 from 2023-02-01

Important changes in the descriptions are written in bold letters.

Header.csv

No.	Name	Unique identifier	Change in column	Old value	New value
1	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. **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.
2	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 **stated as BMDGx.y**.

Article.csv

No.	Name	Unique identifier	Change in column	Old value	New value
3	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. **The PRICE_UNIT is the same as the MDF0063 ORDER_UNIT.**
4	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. **The ORDER_UNIT of the article has to remain unchanged.** […]
5	CONVERSION_TO_PIECE	MDF0410	Format	Integer	Decimal
6	CONVERSION_TO_PIECE	MDF0410	Length / Details	5	16,3
7	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). **If PACKING_PARTS>1, then no packaging units can be specified.**

Attachments.csv

No.	Name	Unique identifier	Change in column	Old value	New value
8	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 **(in RGB colour space)** or print image **(in CMYK colour space).** Conditionally mandatory if MDF0141 ATTACHMENT_TYPE is a **picture P01-P13**. […]
9	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. **Recommendation: If MDF0141 ATTACHMENT_TYPE is other (X99) or there are mutliple attachments of the same type for one article, an attachment description can be helpful to customers**.
10	ATTACHMENT_ORDER	MDF0415	Required	O	C
11	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. **Conditionally mandatory if there are multiple attachments of the same type for one article.**

Value lists

No.	Name	Unique identifier	Change in column	Old value	New value
12	Specification system		Value	UNSPC	UNSPSC

Text changes in this document

- Chapter 104 has been renamed to BMDG 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 5.8Attachment 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
- Value list 5.14 Classes in Specification system REGULATIONS et seqq.: Instructions of use
- 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

2   Introduction

The continuous improvement of the quality of electronic product data represents the basis of any process optimization.

Achieving a higher product data quality is the common goal of all distribution levels and also encompasses the involvement of all market partners of the HVAC industry. In order to further optimize the standardized electronic data exchange – and the quality of the article master data – it is necessary to harmonize the existing standards and regulations in the field and to document the partners' individual requirements. This is intended to provide common ground for all those involved for the next steps to be taken while working towards improved data quality.

This document provides a detailed overview of the data contents that are identical for all distribution levels and of the understanding of data quality. When it comes to data contents, it is important that all distribution levels share the same structure, and above all, the same understanding regarding content. Defining data contents is not about describing an interface for exchange between software systems but about showing comprehensive detailed information on the respective contents.

Here, the supplier is meant as the supplier of the data. Often the manufacturer does supply the data.

The base item is the lowest level with its own identification and corresponds to quantity 1 of the order unit (MDF0063 ORDER_UNIT).

The guideline can be downloaded under https://www.arge.de/service/downloads/.

3 Requirements for data delivery

3.1 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 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 of filling a line entry are listed below.

Required	Abbreviation	Description
Mandatory	M	Mandatory (M) means that this element / field has to be filled for every record (line entry).
Conditional	C	Conditional (C) means that this element has to be filled under certain conditions. These are named in the corresponding description.
Optional	O	Optional (O) means that this element can be filled.
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
Decimal	x,y means a total of x places with y decimal places Valid characters: 0-9
GTIN	13 or 14 numeric digits with a valid check digit
Integer	Integer 2 (1-99) means that 2 digits are allowed within the range of 1 to 99 Valid characters: 0-9
String	Character set: UTF-8
Value list	See chapter 6 Country-specific value lists

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	, ,
HTML headings	<h1>, <h2>, <h3>, <h4>

Exemplary extract of Header.csv:

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

3.2 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 BMDG tables and attributes

4.1 Header

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. Elements that are mandatory (M) have to be filled per line. Only one line with data is allowed.

Name	Unique identifier	Requir ed	Format	Length / Details	Description	Example
SUPPLIER_NAME	MDF0001	M	String	50	Company name or legal name of the manufacturer.	Factory1
SUPPLIER_GLN	MDF0002	M	Integer	13	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 organization. Recommendation: Use the GLN which is also used for EDI (Order to pay exchange). This could be your local or headquarter GLN depending on point of origin.	1234567890123
SUPPLIER_DUNS	MDF0003	O	Integer	9	The D-U-N-S® number (Data Universal Numbering System - www.dnb.com) is a 9-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_S TANDARD
CATALOGUE_NAME	MDF0005	M	String	100	Descriptive name of the catalogue. It is used to differentiate multiple assortments of 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_STANDA RD
DATA_DELIVERY_NAME	MDF0400	M	String	100	Descriptive name of the data delivery. This name has to be stated identically in the upload mask on OXOMI and is used to name the data delivery on www.building-masterdata.com.	Supplier Name Delivery France 2023
DATA_DELIVERY_DESCRIP TION	MDF0401	O	String	1000	Further information on the data delivery. If filled, the information has to be stated identically in the upload mask 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 of the catalogue overrides the validity end when the new delivery becomes valid.	2020-12-31
COUNTRY	MDF0007	M	Value list 5.2	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 5.6	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 on which the data delivery is based on 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
BUYER_NAME	**MDF0012**	O*	String	50	Name of the buying company or organization 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	Name of the person responsible for the processing of 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 the processing of the data. Name in capital letters. * Note: Mandatory for FAB-DIS data delivery.	DUPONT
EMAIL_OF_DATA_CREATOR	**MDF0292**	O*	String	100	Email 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. Elements that are mandatory (M) have to be filled per line. Only one line per article is 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 determing for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.	123456 JKS300062011 104.040.53B-01
CATALOGUE_ARTICLE_NUMBER	MDF0404	O	String	35	Additional supplier article number, e.g., as used in print media and catalogues.	123 456
ARTICLE_TYPE	MDF0405	M	Value list 5.9	3 (Article Type)	Type of the article. Classification according to usage.	STD
SUPPLIER_GTIN	MDF0022	C	GTIN	14	GTIN of the supplier. The GTIN describes an unambiguous article key (by GS1). Conditionally mandatory if there exists a GTIN for the article.	4048797109712
TEXT_150	MDF0406	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. * 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 725mmxDN40/50 chromium-plated
BRAND_NAME	MDF0023	M	String	50	Name of the brand of this article. It is used to show similarities between articles.	Mercedes-Benz Geberit
PRODUCT_SERIES	MDF0024	O	String	50	Grouping of articles within a brand. It is used to show similarities beetween articles.	CLS Acanto
PRODUCT_MODEL	MDF0407	O	String	50	Grouping of articles to a product, typically on a catalogue page of articles. It should be used for commercial marketing purposes.	400 60 cm
PRODUCT_VARIATION	MDF0025	O	String	50	Differentiating attributes of articles within the model (or series if there is no model family) such as colour, size, surface, capacity.	sportsback white/KeraTect
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. * Note: Mandatory for FAB-DIS data delivery.	car
PRODUCT_GROUP_ID	MDF0028	O	String	20	After categorization under a commodity group, the product group facilitates a finer classification of the article, defined by the supplier.	PG1

Name	Unique identifier	Required	Format	Length / Details	Description	Example
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.	small family car
DISCOUNT_GROUP_ID	MDF0030	M	String	20	The discount group is used to refer 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.	Decription of the discount group
BONUS_GROUP_ID	MDF0032	O	String	20	The bonus group is used to refer 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_SUPPLIER is filled.	Decription of the bonus group
VALID_FROM	MDF0034	O*	Date	10 (YYYY-MM-DD)	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.	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.	2020-02-17
STANDARD_DELIVERY_PERIOD	MDF0040	O*	Integer	3 (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. Recommendation: For services, use proxy "999". * Note: Mandatory for FAB-DIS data delivery.	21
PRICE_QUANTITY	MDF0041	C	Integer	8	A multiple of the order unit (MDF0063 ORDER_UNIT) indicating to which quantity all the specified prices refer to. Conditionally mandatory if MDF0043 GROSS_LIST_PRICE_EXCL_TAX and / or MDF0044 REC_RETAIL_PRICE_INCL_TAX are filled.	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".	true
GROSS_LIST_PRICE_EXCL_TAX	MDF0043	C	Decimal	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".	11,26
REC_RETAIL_PRICE_INCL_TAX	MDF0044	O	Decimal	15,2	The non-binding recommended retail price including sales tax.	15,27
PRICE_CURRENCY	MDF0045	C	Value list 5.7	3 (Currency)	Currency of the prices. Conditionally mandatory if MDF0043 GROSS_LIST_PRICE_EXCL_TAX and / or MDF0044 REC_RETAIL_PRICE_INCL_TAX are filled.	EUR

Name	Unique identifier	Required	Format	Length / Details	Description	Example
PRICE_UNIT	MDF0408	O	Value list 5.1	3 (Units)	Unit of the price. The PRICE_UNIT is the same as the MDF0063 ORDER_UNIT.	PCE
TAX	MDF0046	O*	Value list 5.10*	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 items (EXPORTABLE_INDICATOR is "true"), MDF0047 CUSTOMS_TARIFF_NUMBER and MDF0049 COUNTRY_OF_ORIGIN must be filled.	true
CUSTOMS_TARIFF_NUMBER	MDF0047	C	Integer	8	Commodity code required for customs (import / export) and Intrastat declarations. The first 6 digits are internationally harmonized (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 8 digit number is recommended.	841370 84137051
COUNTRY_OF_ORIGIN	MDF0049	C	Value list 5.2	2 (Countries)	The country of origin is the country where the article was manufactured which means the country where the greatest increase in value occured. 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 by EU and ZZ, explanations in the value list. Conditionally mandatory if MDF0409 EXPORTABLE_INDICATOR is "true".	DE
NET_WIDTH	MDF0050	O	Decimal	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.	108
NET_WIDTH_UNIT	MDF0051	C	Value list 5.3	3 (Length Units)	Unit of net width of the content of one article without packaging. Conditionally mandatory if MDF0050 NET_WIDTH is filled.	MMT
NET_DEPTH	MDF0052	O	Decimal	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.	201
NET_DEPTH_UNIT	MDF0053	C	Value list 5.3	3 (Length Units)	Unit of net depth of the content of one article without packaging. Conditionally mandatory if MDF0052 NET_DEPTH is filled.	MMT
NET_HEIGHT	MDF0054	O	Decimal	16,3	Net height of the content of one article without packaging. Typically corresponds to the heigth 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.	65

Name	Unique identifier	Required	Format	Length / Details	Description	Example
NET_HEIGHT_UNIT	**MDF0055**	C	Value list 5.3	3 (Length Units)	Unit of net height of the content of one article without packaging. Conditionally mandatory if MDF0054 NET_HEIGHT is filled.	MMT
NET_WEIGHT	**MDF0056**	O	Decimal	16,3	Net weight of the content of one article without packaging. Weight in GRM (MDF0057 NET_WEIGHT_UNIT=GRM) is only permitted without decimal places, due to conversion problems to KGM. 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.	0,73
NET_WEIGHT_UNIT	**MDF0057**	C	Value list 5.4	3 (Weight Units)	Unit of net weight of the content of one article without packaging. Conditionally mandatory if MDF0056 NET_WEIGHT is filled.	KGM
ORDER_UNIT	**MDF0063**	M	Value list 5.1	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 meters of tape (ORDER_UNIT=PCE). See chapter 7.1 Order details for more examples.	MTK
NO_CU_PER_OU	**MDF0058**	M	Decimal	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 meters of tape (NO_CU_PER_OU=50).	100
CONTENT_UNIT	**MDF0060**	M	Value list 5.1	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 meters of tape (CONTENT_UNIT=MTR).	PCE
CONVERSION_TO_PIECE	**MDF0410**	O	Decimal	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 equal to one (or other amount) MDF0063 ORDER_UNIT as well. This measure refers to the number of MDF0411 CONVERSION_TO_PIECE_UNIT. E.g.: A tube which is ordered in meters but supplied as 6 meter piece (smallest logistical unit that corresponds to a piece). See chapter 7.1 for specific examples.	6

Name	Unique identifier	Requir ed	Format	Length / Details	Description	Example
CONVERSION_TO_PIECE_U NIT	MDF0411	C	Value list 5.1	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.	MTR
QUANTITY_MIN	MDF0062	M	Decimal	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
QUANTITY_INTERVAL	MDF0064	O	Decimal	16,3	Number indicating the quantity steps in which the article can be ordered.	5
PACKING_PARTS	MDF0132	O	Integer	2 (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 can be specified.	2
SHELF_LIFE_PERIOD	MDF0065	O	Integer	2 (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 "durability". Indication of the period in months 1-99; 99 means unlimited durability. Useful for certain articles, e.g., self adhesive pipe insulation.	99
WARRANTY_BUSINESS	MDF0412	O*	Integer	2 (1-99)	Warranty in months, beginning with the date of selling. Indication of the period in months 1-99; 99 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. If the table is filled, elements that are mandatory (M) have to be filled per line. Only one line per article is 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 determing for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.	JKS300062011
TEXT_40_1	MDF0100	O	String	40	Very short description of an article, e.g., for ERP systems or invoices / delivery notes.	Viega pipe Prestabo 1106
TEXT_40_2	MDF0101	O	String	40	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.	6170.11 in 725mmxDN40/50 chromium-plated
TEXT_256	MDF0103	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.	Viega Multiplex Trio equipment set Visign MT9 for drain/overflow functional unit, Model 2058.01 Version: plastic black matt
TEXT_ARTICLE_DESCRIPTION	MDF0413	O	String	10000	Extensive description of the article (e.g., technical features, application purpose, characteristics, special features, versions), preferably in HTML format.	Multiplex Trio equipment set Visign MT9 for drain/overflow functional unit, Model 2058.01 equipment poppet Model 6161.01 item 806 125 Version: plastic black matt
TEXT_MARKETING	MDF0104	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 possible.	Prestabo pipe for special application
TEXT_APPLICATION_PURPOSE	MDF0105	O	String	10000	This attribute explains on a deeper level how you can or cannot use this product from a technical perspective. HTML is possible. Note: Not suitable for heating and cooling systems.	

| DEEP_LINK_URL | MDF0106 | O | String | 256 | A deep link (URL) redirects to a relevant webpage of the supplier or manufacturer company, where further information on the article may be found. | https://www.company.com/articlenumber |

4.4 PackagingUnits

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. If the table is filled, elements that are mandatory (M) have to be filled per line. Multiple lines per article are allowed.

If the supplier specifies packaging units, they need at least to be specified starting at amount of the minimum order quantity (MDF0062 QUANTITY_MIN) and above. Certainly, the 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	Requir ed	Format	Length / Details	Description	Example
SUPPLIER_ARTICLE_NUMB ER	MDF0021	M	String	35	Contains the article number defined by the supplier. It is determing 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_QUANTI TY	MDF0121	M	Decimal	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	O	GTIN	14	The GTIN for the packaging unit. The GTIN has to be unique for every packaging unit. The GTIN of the article (MDF0022 SUPPLIER_GTIN) is identical to the GTIN of the first packaging unit level with MDF0121 PACKAGING_UNIT_QUANTITY=1. If the GTIN of the packaging unit is different from the GTIN of the article, it means another packaging level.	4048797109712
PACKAGING_UNIT_CODE	MDF0123	M	Value list 5.5	3 (Package kind)	Definition of the packaging type, e.g., box, basket.	CT
PACKAGING_UNIT_WIDTH	MDF0124	M	Decimal	16,3	Width of the entire packaging unit incl. packaging.	108
PACKAGING_UNIT_WIDTH_ UNIT	MDF0125	M	Value list 5.3	3 (Length Units)	Unit of width of the entire packaging unit incl. packaging.	MMT
PACKAGING_UNIT_DEPTH	MDF0126	M	Decimal	16,3	Depth of the entire packaging unit incl. packaging.	201
PACKAGING_UNIT_DEPTH_ UNIT	MDF0127	M	Value list 5.3	3 (Length Units)	Unit of depth of the entire packaging unit incl. packaging.	MMT
PACKAGING_UNIT_HEIGHT	MDF0128	M	Decimal	16,3	Height of the entire packaging unit incl. packaging.	65
PACKAGING_UNIT_HEIGHT _UNIT	MDF0129	M	Value list 5.3	3 (Length Units)	Unit of height of the packaging unit incl. packaging.	MMT

| PACKAGING_UNIT_WEIGHT | MDF0130 | M | Decimal | 16,3 | Weight of the entire packaging unit incl. packaging. Weight in GRM (MDF0131 PACKAGING_UNIT_WEIGHT_UNIT=GRM) is only permitted without decimal places, due to conversion problems to KGM. | 0,73 |
| PACKAGING_UNIT_WEIGHT _UNIT | MDF0131 | M | Value list 5.4 | 3 (Weight Units) | Unit of weight of the entire packaging unit incl. packaging. | KGM |

4.5 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. If the table is filled, elements that are mandatory (M) have to be filled 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 determing 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	100	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 5.8	10 (Attachment type)	Type of attachment / digital asset.	P01
ATTACHMENT_USE	MDF0414	C	Value list 5.11	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).	true
ATTACHMENT_URL	MDF0143	O	String	512	Direct URL to the attachment/digital asset on the supplier's webpage.	https://www.company.com/articleasset.jpg
ATTACHMENT_DESCRIPTION	MDF0144	O	String	250	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. Recommendation: If MDF0141 ATTACHMENT_TYPE is other (X99) or there are mutliple attachments of the same type for one article, an attachment description can be helpful to customers.	Top view
ATTACHMENT_ORDER	MDF0415	C	Integer	2 (1-99)	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. Conditionally mandatory if there are multiple attachments of the same type for one article.	1

4.6 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. Elements that are mandatory (M) have to be filled 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 7.2 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 determing 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 5.13	80 (Specification System)	Stating the specification system that the attribute refers to. Recommendation: Use one of the two latest ETIM releases.	ETIM-8.0 REGULATIONS
SPECIFICATION_CLASS_CODE	MDF0151	M	String	60	Allocation to a specification class.	EC011550 HAZARDOUS_GOODS
FEATURE_CODE	MDF0152	M	String	60	Unique name / characteristic of the attribute.	EF011666 IDENTIFICATION
FEATURE_VALUE_CODE_1	MDF0153	O	String	256	The value belonging to the feature_code. In case of 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	in case of range: 10 true EV001234
FEATURE_VALUE_CODE_2	MDF0154	O	String	60	This value is used only in case of a range, give the maximum value belonging to the feature code.	in case of range: 100
FEATURE_UNIT	MDF0155	O	String	20	Unit of measurement of the feature; standard units should be used.	EU570448
FEATURE_VALUE_DETAILS	MDF0156	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 color
PRODUCT_ETIM_RELEASE_DATE	MDF0157	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. This table has to be delivered with every data delivery but does not have to be filled. If the table is filled, elements that are mandatory (M) have to be filled per line. Multiple lines per article are allowed.

Name	Unique identifier	Requir ed	Format	Length / Details	Description	Example
SUPPLIER_ARTICLE_NUMB ER	MDF0021	M	String	35	Contains the article number defined by the supplier. It is determing for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.	JKS300062011
RELATED_ITEM	MDF0416	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
RELATION_TYPE	MDF0417	M	Value list 5.12	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
RELATED_ITEM_QUANTITY	MDF0418	M	Decimal	16,3	Number of items assigned as related (number in base item, quantity 1 of MDF0063 ORDER_UNIT).	1

4.8 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. If the table is filled, elements that are mandatory (M) have to be filled per line. Multiple lines per article are allowed. The table can only be filled with the country-specific data for the country the data delivery is planned for (e.g., for Italy, only country codes starting with IT can 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 7.3 Country-specific.

Name	Unique identifier	Requir ed	Format	Length / Details	Description	Example
SUPPLIER_ARTICLE_NUMB ER	**MDF0021**	M	String	35	Contains the article number defined by the supplier. It is determing for ordering the article (e.g., EDI). It is the article identifier (foreign key) between the different tables of BMDG.	JKS300062011
CS_CODE	**MDF0450**	M	Value list	50 (CS_COD E)	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 can be used.	DK_EL_NUMBER
CS_VALUE	**MDF0451**	M	Value list	1000 (CS_VALU E)	Stating the specific value of the MDF0450 CS_CODE.	1234567

5 Value lists

5.1 Units

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	Metric ton

5.2 Countries

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

Country list in alphabetical order according to ISO 3166-1 alpha-2

alpha-2 code	English short name	alpha-2 code	English short name
AF	Afghanistan	**LS**	Lesotho
AX	Åland Islands	**LR**	Liberia
AL	Albania	**LY**	Libya
DZ	Algeria	**LI**	Liechtenstein
AS	American Samoa	**LT**	Lithuania
AD	Andorra	**LU**	Luxembourg
AO	Angola	**MO**	Macao
AI	Anguilla	**MG**	Madagascar
AQ	Antarctica	**MW**	Malawi
AG	Antigua and Barbuda	**MY**	Malaysia
AR	Argentina	**MV**	Maldives

AM	Armenia		**ML**	Mali
AW	Aruba		**MT**	Malta
AU	Australia		**MH**	Marshall Islands
AT	Austria		**MQ**	Martinique
AZ	Azerbaijan		**MR**	Mauritania
BS	Bahamas		**MU**	Mauritius
BH	Bahrain		**YT**	Mayotte
BD	Bangladesh		**MX**	Mexico
BB	Barbados		**FM**	Micronesia (Federated States of)
BY	Belarus		**MD**	Moldova, Republic of
BE	Belgium		**MC**	Monaco
BZ	Belize		**MN**	Mongolia
BJ	Benin		**ME**	Montenegro
BM	Bermuda		**MS**	Montserrat
BT	Bhutan		**MA**	Morocco
BO	Bolivia (Plurinational State of)		**MZ**	Mozambique
BQ	Bonaire, Sint Eustatius and Saba		**MM**	Myanmar (formerly Burma (BU))
BA	Bosnia and Herzegovina		**NA**	Namibia
BW	Botswana		**NR**	Nauru
BV	Bouvet Island		**NP**	Nepal
BR	Brazil		**NL**	Netherlands
IO	British Indian Ocean Territory		**NC**	New Caledonia
BN	Brunei Darussalam		**NZ**	New Zealand
BG	Bulgaria		**NI**	Nicaragua
BF	Burkina Faso		**NE**	Niger
BI	Burundi		**NG**	Nigeria
CV	Cabo Verde		**NU**	Niue
KH	Cambodia		**NF**	Norfolk Island
CM	Cameroon		**MK**	North Macedonia
CA	Canada		**MP**	Northern Mariana Islands
KY	Cayman Islands		**NO**	Norway
CF	Central African Republic		**OM**	Oman
TD	Chad		**PK**	Pakistan
CL	Chile		**PW**	Palau
CN	China		**PS**	Palestine, State of
CX	Christmas Island		**PA**	Panama
CC	Cocos (Keeling) Islands		**PG**	Papua New Guinea
CO	Colombia		**PY**	Paraguay
KM	Comoros		**PE**	Peru
CG	Congo		**PH**	Philippines
CD	Congo, Democratic Republic of the		**PN**	Pitcairn
CK	Cook Islands		**PL**	Poland
CR	Costa Rica		**PT**	Portugal
CI	Côte d'Ivoire		**PR**	Puerto Rico
HR	Croatia		**QA**	Qatar

CU	Cuba		RE	Réunion
CW	Curaçao		RO	Romania
CY	Cyprus		RU	Russian Federation
CZ	Czechia		RW	Rwanda
DK	Denmark		BL	Saint Barthélemy
DJ	Djibouti		SH	Saint Helena, Ascension and Tristan da Cunha
DM	Dominica		KN	Saint Kitts and Nevis
DO	Dominican Republic		LC	Saint Lucia
EC	Ecuador		MF	Saint Martin (French part)
EG	Egypt		PM	Saint Pierre and Miquelon
SV	El Salvador		VC	Saint Vincent and the Grenadines
GQ	Equatorial Guinea		WS	Samoa
ER	Eritrea		SM	San Marino
EE	Estonia		ST	Sao Tome and Principe
SZ	Eswatini		SA	Saudi Arabia
ET	Ethiopia		SN	Senegal
FK	Falkland Islands (Malvinas)		RS	Serbia
FO	Faroe Islands		SC	Seychelles
FJ	Fiji		SL	Sierra Leone
FI	Finland		SG	Singapore
FR	France		SX	Sint Maarten (Dutch part)
GF	French Guiana		SK	Slovakia
PF	French Polynesia		SI	Slovenia
TF	French Southern Territories		SB	Solomon Islands
GA	Gabon		SO	Somalia
GM	Gambia		ZA	South Africa
GE	Georgia		GS	South Georgia and the South Sandwich Islands
DE	Germany		SS	South Sudan
GH	Ghana		ES	Spain
GI	Gibraltar		LK	Sri Lanka
GR	Greece		SD	Sudan
GL	Greenland		SR	Suriname
GD	Grenada		SJ	Svalbard and Jan Mayen
GP	Guadeloupe		SE	Sweden
GU	Guam		CH	Switzerland
GT	Guatemala		SY	Syrian Arab Republic
GG	Guernsey		TW	Taiwan, Province of China
GN	Guinea		TJ	Tajikistan
GW	Guinea-Bissau		TZ	Tanzania, United Republic of
GY	Guyana		TH	Thailand
HT	Haiti		TL	Timor-Leste
HM	Heard Island and McDonald Islands		TG	Togo
VA	Holy See		TK	Tokelau
HN	Honduras		TO	Tonga

HK	Hong Kong		**TT**	Trinidad and Tobago
HU	Hungary		**TN**	Tunisia
IS	Iceland		**TR**	Turkey
IN	India		**TM**	Turkmenistan
ID	Indonesia		**TC**	Turks and Caicos Islands
IR	Iran (Islamic Republic of)		**TV**	Tuvalu
IQ	Iraq		**UG**	Uganda
IE	Ireland		**UA**	Ukraine
IM	Isle of Man		**AE**	United Arab Emirates
IL	Israel		**GB**	United Kingdom of Great Britain and Northern Ireland
IT	Italy		**UM**	United States Minor Outlying Islands
JM	Jamaica		**US**	United States of America
JP	Japan		**UY**	Uruguay
JE	Jersey		**UZ**	Uzbekistan
JO	Jordan		**VU**	Vanuatu
KZ	Kazakhstan		**VE**	Venezuela (Bolivarian Republic of)
KE	Kenya		**VN**	Vietnam
KI	Kiribati		**VG**	Virgin Islands (British)
KP	Korea (Democratic People's Republic of)		**VI**	Virgin Islands (U.S.)
KR	Korea, Republic of		**WF**	Wallis and Futuna
KW	Kuwait		**EH**	Western Sahara
KG	Kyrgyzstan		**YE**	Yemen
LA	Lao People's Democratic Republic		**ZM**	Zambia
LV	Latvia		**ZW**	Zimbabwe
LB	Lebanon			

5.3 Length units

Value	Description
CMT	Centimetre
KTM	Kilometre
MMT	Millimetre
MTR	Metre

5.4 Weight units

Value	Description
GRM	Gram
KGM	Kilogram
TNE	Metric ton

5.5 Package kind

Value	Description
BE	Bundle

BG	Bag
BO	Bottle
BX	Box
C62	One (unit)
CA	Can
CL	Coil
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 opack
RG	Ring
RL	Reel
RO	Roll
SA	Sack
SET	Set
TN	Tin
TU	Tube
WR	Wrap
Z2	Chest
Z3	Cask

5.6 Languages

Value	Description
sq	Albanian
be	Belarusian
bs	Bosnian
bg	Bulgarian
ca	Catalan
hr	Croatian
cs	Czech
da	Danish
nl	Dutch
en	English

et	Estonian
fi	Finnish
fr	French
de	German
el	Greek
hu	Hungarian
is	Icelandic
ga	Irish
it	Italian
kk	Kazakh
lv	Latvian
lt	Lithuanian
mk	Macedonian
mt	Maltese
mo	Moldavian
no	Norwegian
pl	Polish
pt	Portuguese
ro	Romanian
ru	Russian
sr	Serbian
sk	Slovak
sl	Slovenian
es	Spanish
sv	Swedish
tr	Turkish
uk	Ukrainian

5.7 Currency

Value	Description
BAM	Bosnia and Herzegovina convertible mark
BGN	Bulgarian lev
CHF	Swiss franc
CZK	Czech koruna
DKK	Danish krone
EUR	Euro
GBP	Pound sterling
GEL	Georgian lari
HRK	Croatian kuna
KZT	Kazakhstani tenge
NOK	Norwegian krone
PLN	Polish złoty
RON	Romanian leu
RSD	Serbian dinar

RUB	Russian rouble
SEK	Swedish krona
USD	United States dollar

5.8 Attachment type

Value	Description
P01	Picture
P05	Logo
P06	Selection diagramm (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
D01	Declaration ROHS
D02	Declaration COC
D03	Declaration DOP
D04	Declaration DOC (CE)
D05	Declaration Warranty
D06	Declaration REACH
D07	Declaration WEEE
D99	Other declarations
L01	ErP label (Energy related product)
L02	IE (Motor efficiency)
L03	ECO label
L99	Other labels
A01	Approval for drinking water
A02	Approval for exclassification
A03	Other approvals / certificates

M01	Installation manual
M02	User manual
M03	Maintenance manual
M04	Care manual
M99	Other manuals

5.9 Article type

Value	Description
STD	Standard article All articles are standard articles unless they are assigned to one of the following article types.
SP	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.
VA	Variant article Variant articles differ from a generic article only - or mainly - by one or a few characteristics, e.g., colour or material. Needs additional information (e.g., colour, material) to be available for order.
CP	Customised production Articles for which the final form is specified with additional information of the customer. Usually with price on request.
SS	Service / Software Services or software are non-physical (intangible) articles offered by the supplier, e.g., measurement and product advice.
SET	Packet / Set Several related, similar or complementary articles combined in one item.
SA	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.
CA	Calculation article Calculation materials are used in sales purely for pricing in the offer phase for custom articles, these calculation materials are never produced and cannot be ordered.
BM	Bulk material Bulk material describes a granular or lumpy mixture which is traded in a pourable form, e.g., sand, gravel.

5.10 Tax

Please find further information on the VAT rates under
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

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

5.12 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 seperate 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 in purpose and functions to the source article and can possibly be used in its place.
SPAREPART	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.
UPSELLING	A more advanced version of the source article with added value. The source article is still available.
OTHERS	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

Recommendation: Complete deliveries in one ETIM version, not just partial

Value	Description
ETIM-8.0	ETIM Classification V.8
ETIM-9.0	ETIM Classification V.9
DYNAMIC	ETIM Version Dynamics
UNSPSC	United Nations Standard Products and Services Code
INDIV	Individual attributes: e.g., keywords
REGULATIONS	Regulations

5.14 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
UBA_POSITIVE_LIST	UBA positive list
HAZARDOUS_GOODS	Information on hazardous goods
REACH	REACH identification
HAZARDOUS_SUBSTANCES	Information on hazardous substances

BATTERY	Battery identification
ECHA_DB	ECHA database identification
DISPOSAL	Disposal of waste
EXPLOSIVE	Regulation on explosives precursors

5.15 Attribute name 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
ERP	**SPACE_HEATING**	Energy efficiency class - seasonal space heating		single
ERP	**SPACE_HEATING_55C**	Energy efficiency class - seasonal space heating in medium-temperature applications (55 °C)		single
ERP	**SPACE_HEATING_35C**	Energy efficiency class - seasonal space heating in low-temperature applications (35 °C)		single
ERP	**WATER_HEATING**	Energy efficiency class - water heating		single
ERP	**SPACE_HEATING_COMPOUND**	Energy efficiency class - seasonal space heating with compound system consisting of room heater, temperature controller and solar device		single
ERP	**COMBI_HEATING_COMPOUND**	Energy efficiency class - seasonal space heating with compound system consisting of combination heater, temperature controller and solar device		single
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
ERP	**HOT_WATER_TANK**	Energy efficiency class - hot water tank		single
ERP	**COOLING**	Energy efficiency class - cooling		single
ERP	**HEATING_COLDER**	Energy efficiency class - heating colder climate zone		single
ERP	**HEATING_MEDIUM**	Energy efficiency class - heating medium climate zone		single
ERP	**HEATING_WARMER**	Energy efficiency class - heating warmer climate zone		single
ERP	**SOLID_FUEL_BOILER**	Energy efficiency class - solid fuel boiler		single
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
ERP	**LAMP**	Energy efficiency class - lamp		single
ERP	**CHANDELIER**	Energy efficiency class - chandelier approved from / to		single
ERP	**LED**	Energy efficiency class - LED from / to		single
ERP	**LIGHT_SOURCES**	Energy efficiency class - light sources (Regulation (EU) 2019/2015)		single
ERP	**ROOM_HEATER**	Energy efficiency class - individual room heater		single
ERP	**BI_VENTILATION**	Energy efficiency class - bi-directional ventilation unit		single
UBA_POSITIVE_LIST	**IDENTIFICATION**	UBA positive list labelling		single

UBA_POSITIVE_LIST	**IDENTIFICATION_REQUIREMENT**	UBA requirement labelling	conditionally mandatory if UBA_POSITIVE_LIST IDENTIFICATION=true	single
HAZARDOUS_GOODS	**IDENTIFICATION**	HAZMAT labelling	mandatory	single
HAZARDOUS_GOODS	**UN_NUMBER**	UN number	conditionally mandatory if HAZARDOUS GOODS IDENTIFICATION=true	multiple
HAZARDOUS_GOODS	**DANGER_CLASS**	Hazard class	conditionally mandatory if HAZARDOUS GOODS IDENTIFICATION=true	single
HAZARDOUS_GOODS	**ADR_CATEGORY**	Transportation category	conditionally mandatory if HAZARDOUS GOODS IDENTIFICATION=true	single
HAZARDOUS_GOODS	**OFFICIAL_NAME**	Official designation		single
HAZARDOUS_GOODS	**TECHNICAL_NAME**	Technical designation		single
HAZARDOUS GOODS	**SHIPPING_NAME**	Description in ADR 2021 of the UN, Table A in Chapter 3.2, in upper case characters		single
HAZARDOUS_GOODS	**HAZARD_LABEL**	Hazard label		single
HAZARDOUS_GOODS	**PACKAGING_GROUP**	Packaging group		single
HAZARDOUS_GOODS	**NR_SHIPPED_ITEMS**	Number of shipped items		single
HAZARDOUS_GOODS	**DESCR_SHIPPED_ITEMS**	Description of shipped items		single
HAZARDOUS_GOODS	**TUNNEL_CODE**	Tunnel restriction code		single
HAZARDOUS_GOODS	**WATER_CLASS**	Water dangerous good class		single
HAZARDOUS_GOODS	**LIMITED_QUANTITIES**	Restricted amount		single
REACH	**IDENTIFICATION**	Labelling	mandatory	single

REACH	**DATE**	Date	conditionally mandatory if REACH IDENTIFICATION=true or false	single
REACH	**SVHC_NAME**	Name of the SVHC (substance of very high concern)	conditionally mandatory if REACH IDENTIFICATION=true	multiple
HAZARDOUS_ SUBSTANCES	**IDENTIFICATION**	Identification of the dangerous substances		single
HAZARDOUS_ SUBSTANCES	**TRADE_NAME**	Trade name		single
HAZARDOUS_ SUBSTANCES	**INFORMATION**	Supplementary information		single
HAZARDOUS_ SUBSTANCES	**SIGNAL_WORD_WARNING**	Signal word warning		single
HAZARDOUS_ SUBSTANCES	**SIGNAL_WORD_DANGER**	Signal word danger		single
HAZARDOUS_ SUBSTANCES	**STORAGE_CLASS**	Storage class		single
HAZARDOUS_ SUBSTANCES	**IDENTIFICATION_COMMERCIAL_ ONLY**	Identification Commerical use only		single
HAZARDOUS_ SUBSTANCES	**GHS_LABEL_CODE**	GHS label code		multiple
HAZARDOUS_ SUBSTANCES	**HAZARD_STATEMENT**	Hazard statement		multiple
HAZARDOUS_ SUBSTANCES	**PRECAUTIONARY_STATEMENT**	Precautionary statement		multiple
BATTERY	**IDENTIFICATION**	Identification		single
BATTERY	**BATTERY_PICTOGRAM**	Battery pictogram		single
ECHA_DB	**IDENTIFICATION**	Identification	mandatory	single
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
EXPLOSIVE	**CLASSIFICATION**	Classification according to the regulation		single

Use the following values for FEATURE_VALUE_CODE_1 according to the previous feature code and classification if SPECIFICATION_SYSTEM MDF0150 is REGULATIONS.

5.16 Energy efficiency class in Classification ERP

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

5.17 Attribute values in Classification HAZARDOUS_GOODS value IDENTIFICATION

Value	Description
true	Article is a hazardous good
false	Article is not a hazardous good

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 REACH value IDENTIFICATION

Value	Description
true	Article has been inspected and is subject to listing
false	Article has been inspected and is not subject to listing
no data	No REACH information is available

5.20 Attribute values in Classification HAZARDOUS_SUBSTANCES

Attribute name	Attribute value
SIGNAL_WORD_WARNING	true
SIGNAL_WORD_WARNING	false
SIGNAL_WORD_DANGER	true
SIGNAL_WORD_DANGER	false
STORAGE_CLASS	1
STORAGE_CLASS	2A
STORAGE_CLASS	2B
STORAGE_CLASS	3
STORAGE_CLASS	4.1A
STORAGE_CLASS	4.1B
STORAGE_CLASS	4.2
STORAGE_CLASS	4.3
STORAGE_CLASS	5.1A
STORAGE_CLASS	5.1B
STORAGE_CLASS	5.1C
STORAGE_CLASS	5.2
STORAGE_CLASS	6.1A
STORAGE_CLASS	6.1B
STORAGE_CLASS	6.1C
STORAGE_CLASS	6.1D
STORAGE_CLASS	6.2

STORAGE_CLASS	7
STORAGE_CLASS	8A
STORAGE_CLASS	8B
STORAGE_CLASS	10
STORAGE_CLASS	11
STORAGE_CLASS	12
STORAGE_CLASS	13
IDENTIFICATION_COMMERCIAL_ONLY	true
IDENTIFICATION_COMMERCIAL_ONLY	false
GHS_LABEL_CODE	GHS01
GHS_LABEL_CODE	GHS02
GHS_LABEL_CODE	GHS03
GHS_LABEL_CODE	GHS04
GHS_LABEL_CODE	GHS05
GHS_LABEL_CODE	GHS06
GHS_LABEL_CODE	GHS07
GHS_LABEL_CODE	GHS08
GHS_LABEL_CODE	GHS09
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)

5.21 Attribute values in Classification BATTERY

Attribute name	Description
IDENTIFICATION	true
IDENTIFICATION	false
BATTERY_PICTOGRAM	Yes, UN 3480
BATTERY_PICTOGRAM	Yes, UN 3481
BATTERY_PICTOGRAM	Yes, UN 3090

BATTERY_PICTOGRAM	Yes, UN 3091
BATTERY_PICTOGRAM	No

5.22 Attribute values in Classification ECHA_DB value IDENTIFICATION

Value	Description
true	Article is subject to database
false	Article is not subject to database
no data	No information available

5.23 Attribute values in Classification DISPOSAL value WEEE_CATEGORY

Value	Description
1	Temperature exchange equipment
2	Screens, monitors, and equipment containing screens having a surface greater than 100 cm^2
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

6.1 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	The VA approval is an approval for drinking water (old but still in use).	String	15	
DK_GDV_APPROVAL	The GDV approval is an approval for drinking water.	String	15	

6.2 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.	Decimal	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.	Decimal	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 6.2.1	4 (Value list ES_FLUORINATED_GAS_EPIGRAFE)	2.1
ES_FLUORINATED_GAS_ CODIGO_GESTION	"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 6.2.2	3 (Value list ES_FLUORINATED_GAS_CODIGO_GESTION)	P01

6.2.1 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)

6.2.2 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)
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)

6.3   Finland CS_CODE

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

6.4   France CS_CODE

Value	Description	Format	Length / Details	Example
FR_FGAZ	Identification if the product is a fluorinated gas, corresponding to specific sell 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_MANUFA CTURER	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

6.4.1 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 Italy CS_CODE

Value	Description	Format	Length / Details	Example
IT_ACRONYM_BRAND	It is the brand acronym uniquely assigned by IdroLAB. It is used to make the article code unique in a database where the products of several brands coexist.	String	3	ABC
IT_PRODUCT_CHOICE	Indicates the choice of the product in relation to its marketing (tile sector).	Value list 6.5.1	1 (Value list IT_PRODUCT_CHOICE)	1
IT_PRODUCT_SURFACE_ COEFFICIENT	Tile sector (multiplier linked to the determination of the surface). The default is equal to 1.	Decimal	8,4	1

IT_STATUS_OF_PRODUCT	Indicates the status of the product in relation to its marketing.	Value list 6.5.2	1 (Value list IT_STATUS_OF_PRODUCT)	C
IT_FACILITATION_VAT	Indicates whether the product is subject to an additional facilitated VAT (for example building renovations).	Boolean	true / false	false
IT_PRODUCT_VARIANT_CHARACTERISTICS	Indicates whether the product is characterized by variants. If >0 it indicates the number of 'variant' features. For example, if the item is a radiator with variants "Color", "Position of the cap at the top or bottom" and "Position of the cap on the right or left", the field must be updated with the number 3. If the item does not have variants update with 0.	Integer	2	0
IT_PRODUCT_SUPPLEMENT_CHARACTERISTICS	Indicates whether the product can be characterized, when ordering, by additional / customizable 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 customizable height and RAL, the field must be updated with the value "2".	Integer	2	2
IT_DATA_STATUS	Indicates the start date of application of the IT_STATUS_OF_PRODUCT.	Date	10 (YYYY-MM-DD)	2022-01-01
IT_VOLUME_PACKAGING	Volume of the packaging unit in cubic decimetres.	Decimal	10,3	1,000
IT_PRODUCT_COPPER_WEIGHT	Weight of copper present in the product expressed in KGM / KTM.	Decimal	10,3	1,000
IT_PACKAGING_TIPPING	Indicates if the packaging can be tipped over (e.g., without damaging the article).	Boolean	true / false	false
IT_PRODUCT_SERIAL_MANAGEMENT	Product with serial number management.	Boolean	true / false	false
IT_RAEE SUPPLEMENT	WEEE surcharge, indicates the value of the surcharge if not indicated in the product price.	Decimal	15,4	2,54
IT_GAS_TYPE_FGAS	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.	Value list 6.5.3	1 (Value list IT_GAS_TYPE_FGAS)	1
IT_GAS_CODE_FGAS	Indicates the gas code of the product. If the product is not a fluorinated gas but it's equipment, the field refers to the fluorinated gas in circuit 1.	Value list 6.5.4	3 (Value list IT_GAS_CODE_FGAS)	051
IT_GWP_FGAS	Indicates the value of the global warming potential of the fluorinated gas. If the product is equipment, the field refers to circuit 1.	Decimal	11	1430
IT_GAS_SUPPLY_FGAS	Indicates the quantity on the plate in kg of fluorinated gas contained. If the product is equipment, the field refers to circuit 1.	Decimal	10,2	5,45
IT_TYPE_OF_EQUIPMENT_FGAS	Indicates the type of equipment containing fluorinated gases. If this field is filled in, the GAS_TYPE must be empty.	Value list 6.5.5	2 (Value list IT_TYPE_	20

					OF_EQUIPMENT_FGAS)	
IT_NUMBER_OF_CIRCUITS_FGAS	Indicates the number of circuits present containing fluorinated gases. Only for products of type equipment. The value must be between 1 and 20.	Integer	2	2		
IT_GAS_CODE2_FGAS	Indicates the gas code of the product only if the product is not a fluorinated gas but it's equipment. The field refers to the fluorinated gas in circuit 2.	Value list 6.5.4	3 (Value list IT_GAS_CODE_FGAS)	051		
IT_GWP2_FGAS	Indicates the value of the global warming potential only If the product is equipment; the field refers to circuit 2.	Integer	11	1430		
IT_GAS_SUPPLY2_FGAS	Indicates the quantity on the plate in kg only if the product is equipment; the field refers to circuit 2.	Decimal	10,2	5,45		
IT_POLIECO_CONTRIBUTION	Indicates if the product is subject to the POLIECO contribution. For more details: https://www.polieco.it/Home.aspx.	Boolean	true / false	True		
IT_QUANTITY_OF_POLYETHYLENE_POLIECO	Indicates if the product is subjected to the POLIECO contribution, the quantity of polyethylene present in it (in KGM).	Decimal	15,4	0,5		
IT_CONTRIBUTION_CONAI	Indicates if the product is subject to the CONAI environmental contribution (national packaging consortium). For more details: https://www.conai.org/.	Boolean	true / false	True		
IT_PACKAGING_MATERIAL_CONAI	Indicates the type of packaging material for CONAI contribution, among the permissed values.	Value list 6.5.6	20 (Value list IT_PACKAGING_MATERIAL_CONAI)	Plastic_A		
IT_PACKAGING_QUANTITY_CONAI	Indicates the quantity of material in packaging for CONAI contribution (in KGM).	Decimal	15,4	2,5		

6.5.1 Value list IT_PRODUCT_CHOICE

Value	Description
1	First choice
2	Second choice
3	Third choice
4	Available for particular types

6.5.2 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	Customized 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

6.5.3 Value list IT_GAS_TYPE_FGAS

Value	Description
1	Virgin
2	Regenerated
3	Recycled

6.5.4 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
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
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
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	Sulfur hexafluoride
950	Vertrel XF

6.5.5 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)

6.5.6 Value list IT_PACKAGING_MATERIAL_CONAI

Value	Description
Steel	Steel

Aluminum	Aluminum
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)

6.6   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_QUANTITY	This field is used to describe the quantity of the smallest usable object (tube, screw, plate, tube,…), expressed in the unit of use. For example, if you order 10 plastic tubes of each 4 meter, the smallest usable object is 4 meters.	Decimal	15,3	4
NL_SINGLE_USE_QUANTITY_UNIT	Unit of measure of NL_SINGLE_USE_QUANTITY.	Value list 5.1	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_DELIVERY_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 5.2	2 (Countries)	DE
NL_ORDERABLE_INDICATOR	Indicates whether the trade item is an orderable unit. Mandatory for 2ba data delivery.	Boolean	true / false	true
NL_NORMAL_TEXT_70	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
NL_FRAGILE_ON_PACKAGE	Indicates whether the package contains fragile articles.	Boolean	true / false	false

NL_BEST_BEFORE_DATE _ON_PACKAGE	Indicates whether the article has a "best before" date indicated on the packaging.	Boolean	true / false	false
NL_CUTTABLE_INDICATO R	Indicates whether the article can be cut.	Boolean	true / false	false
NL_MAXIMUM_CUTTING_L ENGTH	The maximum length in which a product can be cut. Mandatory if code NL_CUTTABLE_INDICATOR is "true".	Decimal	15,3	500
NL_MAXIMUM_CUTTING_L ENGTH_UNIT	The unit in which code NL_MAXIMUM_CUTTING_LENGTH is expressed. Value not allowed: KMT=kilometre. Mandatory if NL_CUTTABLE_INDICATOR is "true".	Value list 5.3	3 (Length Units)	MTR

6.7 Norway CS_CODE

Value	Description	Format	Length / Details	Example
NO_NRF_NUMBER	The NRF number is the Norwegian HVAC and plumbing industry's own 7-digit numbering system for identifying products.	Integer	7	1234567

6.8 Portugal CS_CODE

Value	Description	Format	Length / Details	Example
PT_PACKAGING_MATERI AL_TYPE	Type of packaging material (plastic, cardboard box, steel, wood).	Value list 6.8.1	2 (Value list PT_PACK AGING_M ATERIAL_ TYPE)	PL
PT_PACKAGING_MATERI AL_WEIGHT	Weight of the empty package material specified in KGM.	Decimal	16,3	12,3

6.8.1 Value list PT_PACKAGING_MATERIAL_TYPE

Value	Description
PL	Plastic
CB	Cardboard box
ST	Steel

WO	Wood

6.9 Sweden CS_CODE

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

7 Examples

7.1 Order details

These examples help to understand how difficult order details can be presented in the elements of BMDG 2.0.

The base item is the lowest level with its own identification and corresponds to quantity 1 of the order unit (MDF0063 ORDER_UNIT). In these examples, all prices refer to the MDF0063 ORDER_UNIT. The MDF0408 PRICE_UNIT deviates from the MDF0063 ORDER_UNIT only in exceptional cases.

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 the second example: Canister with screed additive.

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

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	1	1	1

Example: 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: 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: 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: 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: 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: 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_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	10	LTR	leave empty	leave empty	1	1	1

Example: 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_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	MTR	1	MTR	6	MTR	120	120	1

Example: Pipes in large bundle: Base item is one pipe (PCE). One pipe is 6 MTR. Minimum order quantity is 20 pipes (120 MTR).
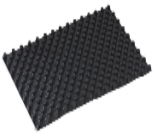
	ORDER_UNIT	NO_CU_PER_OU	CONTENT_UNIT	CONVERSION_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132

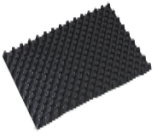|	PCE	6	MTR	leave empty	leave empty	20	20	1

Example: 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_TO_PIECE	CONVERSION_TO_PIECE_UNIT	QUANTITY_MIN	QUANTITY_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	120	MTR	leave empty	leave empty	1	1	1

Example: 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_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	MTK	1	MTK	1,12	MTK	13	13	1

Example: 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_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	1,12	MTK	leave empty	leave empty	12	12	1

Example: 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_INTERVAL	PACKING_PARTS
	MDF0063	MDF0058	MDF0060	MDF0410	MDF0411	MDF0062	MDF0064	MDF0132
	PCE	1	SET	leave empty	leave empty	1	1	1

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

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	SET	leave empty	leave empty	1	1	1

7.2 Specifications

Serial no.	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
1	ETIM-8.0	EC011550	EF002169	EV000572			
2	ETIM-8.0	EC011550	EF001257	EV000154			
3	ETIM-8.0	EC011550	EF000051	EV000396			
...							
5	ETIM-8.0	EC011550	EF020706	1			
...							
10	ETIM-8.0	EC011550	EF011666	540	543		
...							
20	REGULATIONS	REACH	IDENTIFICATION	false			
21	REGULATIONS	REACH	DATE	2022-01-20			
22	REGULATIONS	HAZARDOUS_GOODS	IDENTIFICATION	false			
23	REGULATIONS	ECHA_DB	IDENTIFICATION	false			

Further explanations of value list use for Specification system REGULATIONS

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
…	Value list 5.13	Value list 5.14	Value list 5.15	e.g., Value list 5.16			

7.3 Country-specific

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 BMDG version 1.0 and version 2.0 are quite comprehensive. Therefore, the changes will not be explained in detail in this document. Instead, the changes will be summarized according to levels.

An extensive Excel sheet that documents all the changes in detail can be found under https://www.arge.de/service/downloads/.

8.1 Version 2.0 from 2022-08-01

Changes on table level

- Introduction of new table Relations.csv for relations between articles such as PREDECESSOR or SPAREPART
- Introduction of new table Country-specific.csv for all country-specific codes and values
- Deletion of country-specific tables for Austria: AT-article.csv, AT-longtext.csv, AT-dimensionstext.csv
- Deletion of country-specific tables for Switzerland: CH-article.csv
- Deletion of country-specific tables for Germany: DE-header.csv, DE-article.csv, DE-material.csv, DE-accessories.csv, DE-article_sets.csv, DE-longtext.csv, DE-dimensionstext.csv, DE-historical_products.csv, DE-spareparts.csv
- Transfer of the contents of the other country-specific tables to the value list of the new table Country-specific.csv

Changes on element level

- Introduction of 21 new elements recognizable by MDF04xx
- Deletion of 9 elements
- Transfer of 16 elements to another place or value list

No.	Type of change	Old table	Old name	New table	New name
1	New element			Header.csv	MDF0400 DATA_DELIVERY_NAME
2	New element			Header.csv	MDF0401 DATA_DELIVERY_DESCRIPTION
3	New element			Header.csv	MDF0402 DATA_DELIVERY_VALIDITY_END
4	New element			Header.csv	MDF0403 TEST_CONSTANT
5	New element			Article.csv	MDF0404 CATALOGUE_ARTICLE_NUMBER
6	New element			Article.csv	MDF0405 ARTICLE_TYPE
7	New element			Article.csv	MDF0406 TEXT_150
8	New element			Article.csv	MDF0407 PRODUCT_MODEL
9	New element			Article.csv	MDF0408 PRICE_UNIT
10	New element			Article.csv	MDF0409 EXPORTABLE_INDICATOR
11	New element			Article.csv	MDF0410 CONVERSION_TO_PIECE
12	New element			Article.csv	MDF0411 CONVERSION_TO_PIECE_UNIT
13	New element			Article.csv	MDF0412 WARRANTY_BUSINESS

No.	Type of change	Old table	Old name	New table	New name
14	New element			Description.csv	MDF0413 TEXT_ARTICLE_DESCRIPTION
15	New element			Attachments.csv	MDF0414 ATTACHMENT_USE
16	New element			Attachments.csv	MDF0415 ATTACHMENT_ORDER
17	New element			Relations.csv	MDF0416 RELATED_ITEM
18	New element			Relations.csv	MDF0417 RELATION_TYPE
19	New element			Relations.csv	MDF0418 RELATED_ITEM_QUANTITY
20	New element			Country-specific.csv	MDF0450 CS_CODE
21	New element			Country-specific.csv	MDF0451 CS_VALUE
22	Deletion	Header.csv	MDF0010 ETIMBMECAT_version		
23	Deletion	Article.csv	MDF0048 factor_commodity_number		
24	Deletion	Article.csv	MDF0059 content_unit_of_base_item		
25	Deletion	Article.csv	MDF0061 Order_unit_content		
26	Deletion	Article.csv	MDF0066 UNSPSC_class		
27	Deletion	Article.csv	MDF0067 indicator_electric_component		
28	Deletion	Article.csv	MDF0070 ROHS		
29	Deletion	Article.csv	MDF0073 CE _indicator		
30	Deletion	Description.csv	MDF0102 normal_text_80		
31	Transfer	Article.csv	MDF0036 follow_up_article_number_1	Relations.csv	MDF0417 RELATION_TYPE value FOLLOWUP
32	Transfer	Article.csv	MDF0037 follow_up_article_number_2	Relations.csv	MDF0417 RELATION_TYPE value FOLLOWUP
33	Transfer	Article.csv	MDF0038 follow_up_article_number_3	Relations.csv	MDF0417 RELATION_TYPE value FOLLOWUP
34	Transfer	Article.csv	MDF0039 alternative_article	Relations.csv	MDF0417 RELATION_TYPE value SIMILAR
35	Transfer	Article.csv	MDF0068 battery_contained	Specifications.csv	REGULATIONS BATTERY IDENTIFICATION
36	Transfer	Article.csv	MDF0069 weee_category	Specifications.csv	REGULATIONS DISPOSAL WEEE_CATEGORY
37	Transfer	Article.csv	MDF0071 REACH	Specifications.csv	REGULATIONS REACH IDENTIFICATION
38	Transfer	Article.csv	MDF0072 REACH_date	Specifications.csv	REGULATIONS REACH DATE
39	Transfer	Article.csv	MDF0074 SDS_indicator	Specifications.csv	REGULATIONS HAZARDOUS_GOODS IDENTIFICATION
40	Transfer	Article.csv	MDF0075 UN_number	Specifications.csv	REGULATIONS HAZARDOUS_GOODS UN_NUMBER

No.	Type of change	Old table	Old name	New table	New name
41	Transfer	Article.csv	MDF0076 danger_class	Specifications.csv	REGULATIONS HAZARDOUS_GOODS DANGER_CLASS
42	Transfer	Article.csv	MDF0077 ADR_category	Specifications.csv	REGULATIONS HAZARDOUS_GOODS ADR_CATEGORY
43	Transfer	FR-header.csv	MDF0290 FR_name_of_data_creator	Header.csv	MDF0290 NAME_OF_DATA_CREATOR
44	Transfer	FR-header.csv	MDF0291 FR_surname_of_data_creator	Header.csv	MDF0291 SURNAME_OF_DATA_CREATOR
45	Transfer	FR-header.csv	MDF0292 FR_email_of_data_creator	Header.csv	MDF0292 EMAIL_OF_DATA_CREATOR
46	Transfer	PackagingUnits.csv	MDF0132 number_of_packaging_parts	Article.csv	MDF0132 PACKING_PARTS
47	Transfer	Country-specific tables		Country-specific.csv	MDF0450 CS_CODE

Changes in detail

- Change of all names to capital letters
- Change of certain names to different names
- Various changes of format, length / details, description and examples

Changes on value list level

- Value list 5.2 Countries: Introduction of new additional codes, deletion of expired country codes
- Value list 5.6 Languages: Correction of value fi for Finnish
- Value list 5.7 Currency: Deletion of LTL (Litas) and LVL (Lats)
- Value list 5.8 Attachment type: Introduction of various new attachment type values, deletion of attachment types for different pictures (this differentiation can now be done via new elements in Attachments.csv)
- New Value list 5.9 Article type
- New value list 5.10 Tax
- New value list 5.11 Attachment use
- New value list 5.12 Relation type
- Value list 5.13 Specification system: Introduction of new values ETIM-9.0 and REGULATIONS, deletion of expired ETIM values
- New value lists 5.14 to 5.23 for new specification system REGULATIONS

8.2 Version 1.0 from 2021-02-22

Initial version created