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## 1. Nonwarranty and conditions of use

No liability whatsoever will be accepted for the eCI@ss standard, its numbering system, keywords or property lists. This particularly applies to the use and any damage that may result from this. The classification in no way claims to be complete, particularly as it is subject to a continuous updating process due to the industry's innovation processes.

eCI@ss is being published on the eCI@ss DownloadPortal. The use of eCI@ss is only permitted in acceptance of the eCI@ss Terms of Use. These can be found at <http://www.eclassdownload.com/catalog/conditions.php?language=en>.

## 2. General information about eCI@ss

Using a „common language“, which is understandable for both man and machine, is mandatory for a successful electronic and automated communication.

With eCI@ss, there is this common language available: a world-wide and cross-industry standard for classification and unambiguous description of products and services, which is conform to international and national standards. By using eCI@ss within the entire supply chain – from development to disposal - you can optimize internal business processes as well as cooperate with business partners in a more efficient way.

eCI@ss is developed by the association eCI@ss e.V., a non-profit organization, which is supported by ordinary and sponsoring members from companies, associations and institutions. Their common goal is to enhance eCI@ss in accordance with current and future market requirements as well as to promote its international use.

Members of the eCI@ss association come from international companies from different industries (e.g. automotive, chemical and electrical engineering, utilities, service and trade).

You can find up-to-date information on <http://www.eclass.eu>.

## 3. Description of the files

The ZIP-file contains all relevant files for the structure of classes, properties and values.

### WARNING:

Due to the internationalization of the eCI@ss standard and its adoption to ISO standards the **files were changed since release 6.1**. The files' new names are described below, the changed file structure is described in 3.1ff. Changes since eCI@ss 6.0.1 are marked yellow. New users can ignore these marks.

eClass6_2_CC_en.csv	=	Table of Classification Classes
eClass6_2_PR_en.csv	=	Table of Properties
eClass6_2_VA_en.csv	=	Table of Values
eClass6_2_KW_en.csv	=	Table of Keywords
eClass6_2_CC_PR_en.csv	=	Relations Classes-Properties
eClass6_2_PR_VA_en.csv	=	Relations Properties-Values
eClass6_2_Value_ID_replacement.xls	=	Value ID replacement file (Mapping VA_ID 6.0.1 to 6.2)

Format of data sets:  
CSV, data sets separated by semicolon (1<sup>st</sup> line = field titles), Codepage: UTF-8

### 3.1 Structure of the Value ID replacement file

In release 6.1 certain value-IDs of releases 6.0 and 6.0.1 were partly corrected to be in conformity with the international ISO standard. These changed are still valid for the present version 6.2. This passage is only relevant for you, if you upgrade from 6.0 or 6.0.1 to 6.2. In any other case you can skip this section and go to section 3.2.

#### 3.1.1 About the use of the file

You can only use this file (Mapping table of Value IDs 6.0.1 to 6.1), if you own both a source release (6.0/6.0.1) and the target release 6.2 and are a registered user of both versions.

In release eCI@ss 6.1 IDs of existing values were changed, as their relation to properties was not conform to the standard ISO 13584, which is the underlying data model for eCI@ss. According to this standard, values can only be reused in more than one property, if all the properties are of the same data type (STRING, REAL, INTEGER, BOOLEAN). The file contains the predecessor-successor-relation of the value IDs that were changed in release 6.1. This change is usually implemented in Major Releases. But as errors shall not stop the development of the eCI@ss standard, these changes already had to be made to prepare the next Major Release 7.0. The changes affect 173 values and can be automatically operated, so that the user updating from eCI@ss 6.0.1 to eCI@ss 6.2 does only have minor additional effort. The changes are still valid from 6.0.1 to 6.2, but as they were made to 6.1, the target release in the following passage is named "6.1".

#### 3.1.2 eClass\_Value\_ID\_replacement.xls (Value ID replacement file)

- |                            |  |
|----------------------------|--|
| 1. eCI@ss 6.0.1 idvl       | = primary key (identifier + version number) of value in source release, CHAR(9)    |
| 2. eCI@ss 6.0.1 identifier | = identifier of value in source release, CHAR(6)                                   |
| 3. Value Preferred name EN | = Preferred name of value (English), CHAR(80)                                      |
| 4. Value Preferred name DE | = Preferred name of value (German), CHAR(80)                                       |
| 5. PR identifier           | = identifier of property, CHAR(6)  |
| 6. PR ID eCI@ss 6.0.1      | = primary key (identifier + version number) of property in source release, CHAR(9) |
| 7. PR ID eCI@ss 6.1        | = primary key (identifier + version number) of property in target release, CHAR(9) |
| 8. PR preferred name EN    | = Preferred name of property (English), CHAR(80)                                   |
| 9. PR preferred name DE    | = Preferred name of property (German), CHAR(80)                                    |
| 10. PR Data Type           | = data type of property (REAL, INTEGER, BOOLEAN, STRING), CHAR(7)                  |
| 11. Action                 | = operated change (here: Replace VA_ID)  |
| 12. New idvl eCI@ss 6.1    | = primary key (identifier + version number) of value in target release, CHAR(9)    |

Examples (extraction):

eCI@ss 6.0.1 idvl	eCI@ss 6.0.1 identifier	Value Preferred name DE	PR identifier	PR ID eCI@ss 6.0.1	PR ID eCI@ss 6.1	PR preferred name DE	PR Data Type	New idvl eCI@ss 6.1
BAA153001	BAA153	90°	AAC817	AAC817001	AAC817001	Closing path	REAL	VAA003001
BAA873001	BAA873	rectangular	AAA024	AAA024002	AAA024002	insert mounting style code	INTEGER	VAA004001
BAB337001	BAB337	30	BAD814	BAD814002	BAD814002	Construction size of shaft encoder	STRING	VAA006001

#### Example 1:

Value <90°> assigned to property <closing path> (property ID: AAC817) had ID BAA153 in Release 6.0.1 and receives ID VAA003 since Release 6.1. This is only true for the value at this specific property. Value <90°> with ID BAA153 is still existing in Release 6.2 and assigned to property <Connection angle> (property ID: BAB682). Nothing changes here, as it is not listed in the mapping table.

#### Example 2:

Value <rectangular> assigned to property <insert mounting style code> (property ID: AAA024) had ID BAA873 in Release 6.0.1 and receives ID VAA004 since Release 6.1.

#### Example 3:

Value <30> assigned to the STRING-property <construction size of shaft encoder> (property ID: BAD814) had ID BAA337 in Release 6.0.1 and receives ID VAA006 since Release 6.1. Value <30> with the ID BAA337 is still valid for REAL-properties, as e.g. property <Thickness of shock grip> (ID: BAF383).

## 3.2 Classification structure

### 3.2.1 eClass6\_2\_CC\_en.csv (Class table)

1. <b>supplier</b>	= International Code Designator (0173-1 for eCI@ss), CHAR(6)
2. idcl	= primary key (identifier + version number), CHAR(9)
3. identifier	= identifier, CHAR(6)
4. version number	= class version number, CHAR(3)
5. publication date	= publication date of version, CHAR(10)
6. revision number	= revision number, CHAR(2)
7. coded name	= eCI@ss number, CHAR(8)
8. preferred name	= preferred name, CHAR(80)
9. definition	= definition of class, CHAR(1023)
10. iso language code	= ISO language code, CHAR(2)
11. iso country code	= ISO country code, CHAR(2)
12. note	= note on definition, CHAR(1023)
13. remark	= remark for usage, CHAR(1023)
14. level	= hierarchical level in class tree, CHAR(1)
15. mksubclass	= flag subgroup: 0=no/1=yes, CHAR(1)
16. mksynonym	= flag keyword: s=yes, CHAR(2)
17. mkbsa	= flag standard set of properties*, CHAR(1)
18. <b>IRDI_CC</b>	= International Registration Data Identifier of the class, globally unique eCI@ss identifier (supplier + type of SE + identifier + version number), CHAR(20)
19. <b>type of SE</b>	= identifier of type of structural element (01 = class), CHAR(2)
20. <b>correction</b>	= information if element was corrected since recent release (true = was corrected), CHAR(5)

\* eCI@ss differentiates between standard and basic sets of properties (SSP, BSP). SSP are individually developed for specific classes. BSP (one for each segment) since eCI@ss 6.1 basically consist of at least the following properties:

BAA271004 "GTIN" (before 6.1: "EAN code")  
BAA001003 "Manufacturer name"  
BAA059004 "Supplier product number"  
BAD847003 "Manufacturer product number"  
BAA316003 "Product name"  
BAA002002 "Product type description"  
BAB542001 „Supplier name“  
AAE670001 „Additional link address“  
AAD931001 „Customs tariff number“ (except of segment 25)

The entries in the field "mkbsa" have the following meaning:

No entry = Basic set of properties (BSA)  
2 = Standard set of properties (SSA)

### 3.2.2 eClass6\_2\_KW\_en.csv (Keyword table)

1. <b>supplierKeyword</b>	= International Code Designator of the keyword (0173-1 for eCI@ss), CHAR(6)
2. identifier	= Identifier of keyword, CHAR(6)
3. <b>supplierIdcl</b>	= International Code Designator of the class (0173-1 for eCI@ss), CHAR(6)
4. idcl	= primary key of class (relation), CHAR(9)
5. class coded name	= eCI@ss number of class (relation), CHAR(8)
6. key word value	= preferred name of keyword, CHAR(80)
7. explanation	= description of keyword, CHAR(255)
8. iso language code	= ISO language code, CHAR(2)
9. iso country code	= ISO country code, CHAR(2)
10. level	= hierarchical level, CHAR(1)
11. <b>version number</b>	= keyword version number, CHAR(3)
12. <b>IRDI_KW</b>	= International Registration Data Identifier of the keyword, globally unique eCI@ss identifier (supplierKeyword + type of SE + identifier + version number), CHAR(20)
13. <b>type of SE</b>	= identifier of the type of structural element (06 = keyword), CHAR(2)
20. <b>correction</b>	= information if element was corrected since recent release (true = was corrected), CHAR(5)

### 3.2.3 eClass6\_2\_CC\_PR\_en.csv (relations eClass6\_2\_CC\_en / eClass6\_2\_PR\_en)

1. <b>supplierIdcl</b>	= International Code Designator of the class (0173-1 for eCI@ss), CHAR(6)
2. idcl	= primary key of class (relation), CHAR(9)
3. class coded name	= eCI@ss number of class (relation), CHAR(8)
4. <b>supplierIdatt</b>	= International Code Designator of the property (0173-1 for eCI@ss), CHAR(6)
5. idatt	= primary key of assigned property, CHAR(9)
6. <b>IRDI_CC</b>	= International Registration Data Identifier of the class, globally unique eCI@ss identifier (supplier + type of SE + identifier + version number), CHAR(20)
7. <b>IRDI_PR</b>	= International Registration Data Identifier of the property, globally unique eCI@ss identifier (supplierIdatt + type of SE + identifier + version number), CHAR(20)

### 3.2.4 eClass6\_2\_PR\_en.csv (Property table)

1. <b>supplier</b>	= International Code Designator (0173-1 for eCI@ss), CHAR(6)
2. idatt	= primary key (identifier + version number), CHAR(9)
3. identifier	= identifier, CHAR(6)
4. version number	= property version number, CHAR(3)
5. publication date	= publication date of version, CHAR(10)
6. revision number	= revision number, CHAR(2)
7. preferred name	= preferred name of property, CHAR(80)
8. short name	= short name, CHAR(17)
9. definition	= definition, CHAR(1023)
10. note	= note on definition, CHAR(1023)
11. remark	= remark for usage , CHAR(1023)
12. alias name 1	= Alias Name 1, CHAR(80)
13. alias name 2	= Alias Name 2, CHAR(80)
14. formular symbol	= preferred formular symbol, CHAR(17)
15. format	= number of characters + field type, CHAR(17)
16. unit of measure	= unit of the appropriate value, CHAR(32)
17. unit of measure code	= UN/CEFACT code of the unit of measure, CHAR(3)
18. iso language code	= ISO language code, CHAR(2)
19. iso country code	= ISO country code, CHAR(2)
20. category	= IEC 61360 category of property, CHAR(3)
21. attribute type	= set of values mark*, CHAR(8)
22. valency	= multivalent mark**, CHAR(11)
23. reference	= reference of definition, CHAR(1023)
24. definition class	= ICS-class, CHAR(255)
25. <b>data type</b>	= property data type (REAL, INTEGER, BOOLEAN, STRING), CHAR(7)
26. <b>is measure</b>	= information if the property counts or measures (true = measure)
27. <b>digits before comma</b>	= Number of digits before comma (REAL and INTEGER), CHAR(2)
28. <b>digits after comma</b>	= Number of digits after comma (only REAL), CHAR(1)
29. <b>number of characters</b>	= STRING length (only STRING), CHAR(3)
30. <b>IRDI_PR</b>	= International Registration Data Identifier of the property, globally unique eCI@ss identifier (supplierIdatt + type of SE + identifier + version number), CHAR(20)
31. <b>type of SE</b>	= identifier of the type of structural element (02 = property), CHAR(2)
32. <b>correction</b>	= information if element was corrected since recent release (true = was corrected), CHAR(5)

\*        direct                    = free entry  
          Indirect                = set of values defined

\*\*        univalent                    = precisely one value is assigned  
          multivalent              = one or more values can be assigned

### 3.2.5 eClass6\_2\_PR\_VA\_en.csv (Relations eClass6\_2\_PR\_en / eClass6\_2\_VA\_en)

1. **supplierIdatt** = International Code Designator of the property (0173-1 for eCI@ss), CHAR(6)
2. **idatt** = primary key of property (relation), CHAR(9)
3. **supplierIdvl** = International Code Designator of the value (0173-1 for eCI@ss), CHAR(6)
4. **idvl** = primary key of value (relation), CHAR(9)
5. **IRDI\_PR** = International Registration Data Identifier of the property,  
globally unique eCI@ss identifier  
(supplierIdatt + type of SE + identifier + version number), CHAR(20)
6. **IRDI\_VA** = International Registration Data Identifier of the value,  
globally unique eCI@ss identifier  
(supplierIdvl + type of SE + identifier + version number), CHAR(20)

### 3.2.6 eClass6\_2\_VA\_de.csv (Value table)

1. **supplier** = International Code Designator (0173-1 for eCI@ss), CHAR(6)
2. **idvl** = primary key (identifier + version number), CHAR(9)
3. **identifier** = identifier, CHAR(6)
4. **version number** = version number of value, CHAR(3)
5. **revision number** = revision number of value, CHAR(2)
6. **publication date** = publication date of version, CHAR(10)
7. **preferred name** = preferred name of value, CHAR(80)
8. **short name** = short name of value, CHAR(17)
9. **definition** = definition of value, CHAR(1023)
10. **reference** = reference of definition, CHAR(1023)
11. **iso language code** = ISO language code, CHAR(2)
12. **iso country code** = ISO country code, CHAR(2)
13. **IRDI\_VA** = International Registration Data Identifier of the value,  
globally unique eCI@ss identifier  
(supplier + type of SE + identifier + version number), CHAR(20)
31. **type of SE** = identifier of the type of structural element (02 = property), CHAR(2)
32. **correction** = information if element was corrected since recent release  
(true = was corrected), CHAR(5)

### 3.3 Structure & Relations

