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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 a common language available: a global, 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 - internal business processes as well as data exchange with business partners are optimized in a much 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.

The files' new names are listed below, the file structure is described in 3.1ff:

eClass7_1_CC_en.csv	=	Table of Classification Classes
eClass7_1_KWSY_en.csv	=	Table of Keywords and Synonyms (KW keyword, SY synonym)
eClass7_1_PR_en.csv	=	Table of Properties
eClass7_1_VA_en.csv	=	Table of Values
eClass7_1_UN_en.csv	=	Einheitentabelle (Unit, UN)
eClass7_1_CC_PR_en.csv	=	Relations Classes-Properties
eClass7_1_PR_VA_restricted_en.csv	=	Value Lists, Relations Properties-Values
eClass7_1_CC_PR_VA_suggested_en.csv	=	Proposal Lists, Relations Classes-Properties-Values

Content of the data sets:

eCI@ss Release 7.1 BASIC 01 - English

Format of data sets:

CSV, data sets separated by semicolon (1st line = field titles), Codepage: UTF-8

3.1 Classification structure

3.1.1 eClass7_1_CC_en.csv (Class table)

No.	Attribute Name	Description	Length
1	Supplier**	International Code Designator (0173-1 for eCI@ss)	CHAR(6)
2	IdCC**	Identifier + VersionNumber	CHAR(9)
3	Identifier**	Identifier (unique within the structure element type: class)	CHAR(6)
4	VersionNumber**	Version number	CHAR(3)
5	VersionDate	Publication date of version	CHAR(10)
6	RevisionNumber	Revision number	CHAR(2)
7	CodedName	eCI@ss class code	CHAR(8)
8	PreferredName	Name	CHAR(80)
9	Definition	Definition	CHAR(1023)
10	ISOLanguageCode	Language code according to ISO 639-1 / ISO 639-2, e.g. „en“	CHAR(2)
11	ISOCountryCode	Country code according to ISO 3166-1 / ISO 3166-2, e.g. „US“	CHAR(2)
12	Note	Note on definition	CHAR(1023)
13	Remark	Remark on usage of the class	CHAR(1023)
14	Level	Hierarchichal level in class tree	CHAR(1)
15	MKSubclass	Flag subgroup (0=no/1=yes)	CHAR(1)
16	MKKeyword	Flag, if keywords exist for class (0=no/1=yes)	CHAR(1)
17	MKBSA	Flag standard set of properties (2= Standard set of properties (SSP))*	CHAR(1)
18	IrdiCC	Primary key of the class; International Registration Data Identifier of the class, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)

* 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“

The entries in the field "mkbsa" have the following meaning:
 No entry = Basic set of properties (BSA)
 2 = Standard set of properties (SSA)

3.1.2 eClass7_1_KWSY_en.csv (Keyword table)

No.	Attribute Name	Description	Length
1	SupplierKW/SupplierSY**	International Code Designator of the keyword/synonym	CHAR(6)
2	Identifier**	Identifier (unique within the structure element type: keyword/synonym)	CHAR(6)
3	VersionNumber**	Version number	CHAR(3)
4	IdCC/IdPR**	Primary key of the related class/property	CHAR(9)
5	KeywordValue/ SynonymValue	Name of keyword/synonym	CHAR(80)
6	Explanation	Description of keyword/synonym	CHAR(255)
7	ISOLanguageCode	Language code according to ISO 639-1 / ISO 639-2, e.g. „en“	CHAR(2)
8	ISOCountryCode	Country code according to ISO 3166-1 / ISO 3166-2, e.g. „US“	CHAR(2)
9	TypeOfTargetSE	Identifier of target element type (CC=class, PR=property)	CHAR(2)
10	IrdiTarget	Primary key of target; International Registration Data Identifier of the class/property, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
11	IrdiKW/IrdiSY	Primary key of the keyword/synonym; International Registration Data Identifier of keyword/synonym, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
12	TypeOfSE	Identifier of structure element type (KW=keyword, SY=synonym). Note: keywords can only be assigned to classes, synonyms can only be assigned to properties (see TypeOfTargetSE)	CHAR(2)

3.1.3 eClass7_1_CC_PR_en.csv (relations eClass7_1_CC_en / eClass7_1_PR_en)

No.	Attribute Name	Description	Length
1	SupplierIdCC*	International Code Designator of the class (0173-1 für eCI@ss)	CHAR(6)
2	IdCC**	Identifier+VersionNumber of the target class	CHAR(9)
3	ClassCodedName	eCI@ss class code of the target class	CHAR(8)
4	SupplierIdPR**	International Code Designator of the property (0173-1 for eCI@ss)	CHAR(6)
5	IdPR**	Identifier+VersionNumber of the assigned property	CHAR(9)

6	IrdiCC	Primary key of the target; International Registration Data Identifier of the class, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
7	IrdiPR	Primary key of the assigned property; International Registration Data Identifier of the property, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)

3.1.4 eClass7_1_PR_en.csv (Property table)

No.	Attribute Name	Description	Length
1	Supplier**	International Code Designator of the property (0173-1 for eCI@ss)	CHAR(6)
2	IdPR**	Identifier + VersionNumber	CHAR(9)
3	Identifier**	Identifier (unique within the structure element type: property)	CHAR(6)
4	VersionNumber**	Version number	CHAR(3)
5	VersionDate	Publication date of version	CHAR(10)
6	RevisionNumber	Revision number	CHAR(2)
7	PreferredName	Name	CHAR(80)
8	ShortName	Short name	CHAR(17)
9	Definition	Definition	CHAR(1023)
10	Note	Note on definition	CHAR(1023)
11	Remark	Remark on usage of the property	CHAR(1023)
12	FormularSymbol	Preferred formular symbol	CHAR(17)
13	IrdiUN	Primary key of the assigned unit; International Registration Data Identifier of the unit, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(3)
14	ISOLanguageCode	Language code according to ISO 639-1 / ISO 639-2, e.g. „en“	CHAR(2)
15	ISOCountryCode	Country code according to ISO 3166-1 / ISO 3166-2, e.g. “US”	CHAR(2)
16	Category	Type class of property according to IEC 61360	CHAR(3)
17	AttributeType	Flag for existing value list (direct= free entry, no value list existing; indirect= chose from a defined value list)	CHAR(8)
18	Reference	Source of definition	CHAR(1023)
19	DefinitionClass	ICS class	CHAR(255)
20	DataType	Data type of the property (STRING STRING_TRANSLATABLE REAL_MEASURE REAL_COUNT REAL_CURRENCY INTEGER_MEASURE INTEGER_COUNT INTEGER_CURRENCY BOOLEAN URL RATIONAL RATIONAL_MEASURE TIME TIMESTAMP DATE), see 3.1.8	CHAR(19)
21	DigitsBeforeComma	Number of digits before comma (REAL_COUNT / REAL_MEASURE / REAL_CURRENCY / INTEGER_COUNT / INTEGER_MEASURE / INTEGER_CURRENCY)	INTEGER
22	DigitsAfterComma	Number of digits after comma (Real_COUNT / REAL_MEASURE / REAL_CURRENCY)	INTEGER
23	NumberOfCharacters	For properties of data types STRING / STRING_TRANSLATEABLE/ URL / RATIONAL / RATIONAL_MEASURE / TIME / TIMESTAMP / DATE it specifies the maximum character length of the value. For properties of data types URL / RATIONAL / RATIONAL_MEASURE / TIME / TIMESTAMP / DATE special characters can be included (e.g. http, //, :, / etc.)	INTEGER
24	IrdiPR	Primary key of the property; International Registration Data Identifier of the property, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
25	CurrencyAlphaCode	Specifies the property's currency (INTEGER_CURRENCY, REAL_CURRENCY) according to ISO 4217, e.g. EUR, USD	CHAR(3)

Note 1 on valency:

The attribute "valency" was removed as eCI@ss does not restrict, whether exactly one value or multiple values may be valid. This is defined by the users in their data exchange. For systems that require an indication of the valency, eCI@ss recommends to interpret all properties as multivalent, except of BOOLEAN properties (= univalent). (univalent= exactly one value is valid; multivalent=an undefined number of values can be valid).

Note 2 on data types:

eCI@ss has introduced with release 7.0 many new data types that might not be interpretable by every system. In this case, eCI@ss recommends to distinguish between at least BOOLEAN, REAL, INTEGER (including count, measure and currency) and STRING properties. eCI@ss sees STRING as a suitable substitute for all other data types that are not interpretable by a system (STRING_TRANSLATABLE, URL, DATE, TIME, TIMESTAMP, RATIONAL, RATIONAL_MEASURE). Until release 6.0 there was a different valid format (attribute "format" with X..10, NR1..1, NR2..2.2, V, etc.). In releases 6.1 and 6.2 the new form of describing the format (data type plus any further data-type-specific information) was already published additionally to the old format. Starting from eCI@ss 7.0 exclusively the new form is published, as the new data types are no longer compatible with the old format.

Note 3 on format specifications:

Before 7.0 the indication of both digits before and after comma for REAL and INTEGER properties, as well as the indication of the number of characters of STRING properties had been mandatory. Starting from eCI@ss release 7.0, these attributes are no longer mandatory, i.e. the fields must not be filled.

3.1.5 eClass7_1_PR_VA_restricted_en.csv (Relations eClass7_1_PR_en / eClass7_1_VA_en)

No.	Attribute Name	Description	Length
1	IrdiPR	Primary key of the target property; International Registration Data Identifier of the property, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
2	IrdiVA	Primary key of the assigned value; International Registration Data Identifier of the value, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)

Note 1:
Prior to 7.0 eCI@ss interpreted its value lists as open, i.e. as suggestions that were never intended to be comprehensive. As the ISO defines value lists as restrictive and exclusive, i.e. only those values of a value list are valid for a property and no others eCI@ss had to change its structure to be ISO-compliant. Therefore eCI@ss distinguishes now between value lists (in the ISO-sense, see 3.1.5) and proposal lists (proposed "open" lists that are not exclusive nor exhaustive in the context of the class, see 3.1.6).

3.1.6 eClass7_1_CC_PR_VA_suggested_en.csv (Relations eClass7_1_CC_en / eClass7_1_PR_en / eClass7_1_VA_en)

No.	Attribute Name	Description	Length
1	IrdiTemplate	Primary key of the class's template; International Registration Data Identifier of the template, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
2	IrdiCC	Primary key of the target class; International Registration Data Identifier of the classification class, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
3	IrdiPR	Primary key of the target property; International Registration Data Identifier of the property, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
4	IrdiVA	Primary key of the assigned value; International Registration Data Identifier of the value, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)

3.1.7 eClass7_1_VA_en.csv (Value table)

No.	Attribute Name	Description	Length
1	Supplier*	International Code Designator (0173-1 for eCI@ss)	CHAR(6)
2	IdVA**	Identifier + VersionNumber	CHAR(9)
3	Identifier**	Identifier (unique within the structure element type: property)	CHAR(6)
4	VersionNumber**	Version number	CHAR(3)
5	RevisionNumber	Revision Number	CHAR(2)
6	VersionDate	Publication date of version	CHAR(10)
7	PreferredName	Name	CHAR(80)
8	ShortName	Short name	CHAR(17)
9	Definition	Definition	CHAR(1023)
10	Reference	Source of definition	CHAR(1023)
11	ISOLanguageCode	Language code according to ISO 639-1 / ISO 639-2, e.g. „en“	CHAR(2)
12	ISOCountryCode	Country code according to ISO 3166-1 / ISO 3166-2, e.g. “US”	CHAR(2)
13	IrdiVA	Primary key of the value; International Registration Data Identifier of the value, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
14	DataType	Data type of the value (STRING STRING_TRANSLATABLE REAL_MEASURE REAL_COUNT REAL_CURRENCY INTEGER_MEASURE INTEGER_COUNT INTEGER_CURRENCY BOOLEAN URL RATIONAL RATIONAL_MEASURE TIME TIMESTAMP DATE), see 3.1.8	

3.1.8 eClass7_1_UN_en.csv (Unit table)

No.	Attribute Name	Description	Length
1	StructuredNaming	Structured Naming of the unit, e.g. “volt litre ⁻¹ minute ⁻¹ ”	CHAR(1000)
2	ShortName	Short name	CHAR(1000)
3	Definition	Definition	CHAR(1000)
4	Source	Source of definition	CHAR(1000)
5	Comment	Comment on definition	CHAR(1000)
6	SINotation	Notation (STRING) according to the International System of Units, e.g. “V/(l·min)”	CHAR(1000)
7	SIName	Name (STRING) according to the International System of Units	CHAR(1000)

8	DINNotation	Notation (STRING) according to DIN (Deutsches Institut für Normung)	CHAR(1000)
9	ECENAME	ECE Name (STRING), e.g. "volt per liter minute"	CHAR(1000)
10	ECECode	ECE Code (STRING) according to ECE, e.g. " F87"	CHAR(3)
11	NISTName	Name (STRING) according to NIST	CHAR(1000)
12	IECClassification	Classification of the unit according to IEC	CHAR(1000)
13	IrdiUN	Primary key of the eCI@ss unit; International Registration Data Identifier, globally unique eCI@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
14	NameOfDedicatedQuantity	Name of the superordinate quantity according to DIN	CHAR(1000)

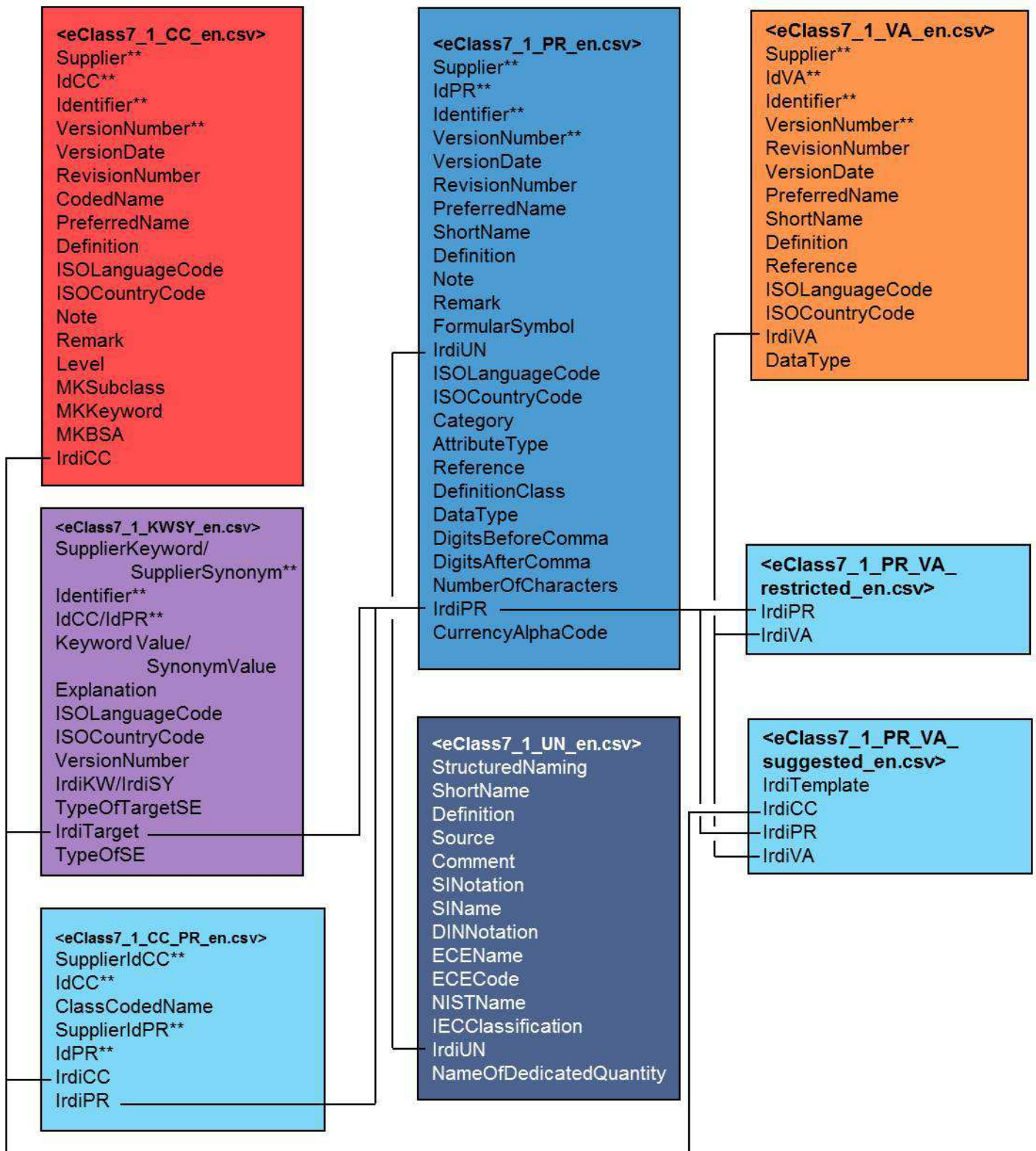
Note 1:
eCI@ss does not use special characters such as <;> or <">, which are interpreted by some systems as a control or separation character. The unit 0173-1#07-AAA683#002 "angular_second" however, is abbreviated as <">, which is both the DIN and the SI notation of this unit. eCI@ss points out that the interpretation of this table might result in difficulties at this point.

3.1.9 Description of the data types

No.	Data Type	Definition	Examples
1	BOOLEAN	Allowed values: (YES NO)	YES
2	TIME	Format hh:mm according ISO 8601:2004	12:45
3	TIMESTAMP	Format yyyy-mm-dd hh:mm according ISO 8601:2004	1979-01-15 12:45
4	DATE	Format yyyy-mm-dd according ISO 8601:2004	1979-01-15
5	URL	According to ISO 13584-24:2003	http://www.eclass-serviceportal.com
6	RATIONAL	to represent rational numbers like 1/3 and -11/17 without rounding (http://en.wikipedia.org/wiki/Rational_data_type)	1/3, 1 2/3
7	RATIONAL_MEASURE	to represent rational numbers like 1/3 and -11/17 without rounding (http://en.wikipedia.org/wiki/Rational_data_type). Used for measuring in a specific unit of measure.	1/3, 1 2/3
8	INTEGER_COUNT	data type which represents some finite subset of the mathematical integers. These are also known as integral data types. Used only for counting. (http://en.wikipedia.org/wiki/Integer_(computer_science)).	1 ; 10 ; 111
9	INTEGER_MEASURE	data type which represents some finite subset of the mathematical integers. These are also known as integral data types. Used for measuring in a specific unit of measure. (http://en.wikipedia.org/wiki/Integer_(computer_science)).	1 ; 10 ; 111
10	INTEGER_CURRENCY	data type which represents some finite subset of the mathematical integers. These are also known as integral data types. Used for measuring in a specific currency. (http://en.wikipedia.org/wiki/Integer_(computer_science)).	1 ; 10 ; 111
11	REAL_COUNT	a rational number expressed in decimal representation (http://en.wikipedia.org/wiki/Real_number). Used only for counting.	1,5 ; 102,35
12	REAL_MEASURE	a rational number expressed in decimal representation (http://en.wikipedia.org/wiki/Real_number). Used for measuring in a specific unit of measure.	1,5 ; 102,35
13	REAL_CURRENCY	a rational number expressed in decimal representation (http://en.wikipedia.org/wiki/Real_number). Used for measuring in a specific currency.	1,5 ; 102,35
14	STRING	A finite sequence of symbols that are chosen from a set or alphabet [...] a sequence of characters (http://en.wikipedia.org/wiki/String_(computer_science)). Cannot be translated into other languages.	0173-1#01-ADG629#001 ; DN 700 ; 10 Mbps
15	STRING_TRANSLATABLE	A finite sequence of symbols that are chosen from a set or alphabet [...] a sequence of characters (http://en.wikipedia.org/wiki/String_(computer_science)). Can be translated into other languages.	Red ; Green ; Aluminum

Note 1 on data types:
eCI@ss has introduced with release 7.0 many new data types that might not be interpretable by every system. In this case, eCI@ss recommends to distinguish between at least BOOLEAN, REAL, INTEGER (including count, measure and currency) and STRING properties. eCI@ss sees STRING as a suitable substitute for all other data types that are not interpretable by a system (STRING_TRANSLATABLE, URL, DATE, TIME, TIMESTAMP, RATIONAL, RATIONAL_MEASURE).

3.2 Structure & Relations



** Note: The official and internationally unique eCI@ss primary key is the IRDI (International Registration Data Identifier), a globally unambiguous identifier that comprises Supplier+TypeOfSE+Identifier+VersionNumber. The separate export of Supplier, ID, VersionNumber and the Identifier (ID+VersionNumber) is therefore redundant. Starting with eCI@ss Release 8.0 this redundant information will no longer be additionally exported, because it is already contained in the IRDI which is the only valid primary key in eCI@ss.

4. Support: Authorized eCl@ss-Service-Providers

During the introduction of eCl@ss, questions frequently occur on the concrete implementation of eCl@ss into various IT systems. Often not all questions can be answered with own resources, so that it turned out to be useful to access external know-how on some issues.

The authorized eCl@ss-service-providers and the eCl@ss e.V. support companies with consulting and offer software solutions for the introduction of eCl@ss in the company and thus sustainably promote the distribution of eCl@ss.

All service providers assigned with implementing tasks defined by the eCl@ss association, guarantee to observe the current rules, guidelines and requirements of the eCl@ss e.V. regarding the eCl@ss data model based on international standards. All information concerning the eCl@ss-service-providers is available on www.eclass.de.

The individual service offers can be viewed on the following link:

http://wiki.eclass.de/wiki/Category:IT_Service_Providers

