Content

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2. General information about eCl@ss

Using a „common language“, readable for man and machine, is mandatory for successful electronic communication.

With eCl@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 eCl@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.

eCl@ss is developed by the association eCl@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 eCl@ss in accordance with current and future market requirements as well as to promote its international use.

Members of the eCl@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 mapping process.

eClass-RUF-TU-CC_8_x_to_9_x.csv	=	Transaction Upgrade Classes (Class-Update-Table)
eClass-RUF-TU-PR_8_x_to_9_x.csv	=	Transaction Upgrade Properties (Property-Update-Table)
eClass-RUF-CC_8_x_to_9_x-en_US.csv	=	Table of Classification Classes

eClass-RUF-KW-SY_8_x_to_9_x-en_US.csv = Table of Keywords / Synonyms
eClass-RUF-PR_8_x_to_9_x-en_US.csv = Table of Properties
eClass-RUF-VA_8_x_to_9_x-en_US.csv = Table of Values
eClass-RUF-CC_PR_8_x_to_9_x.csv = Relations Classes-Properties
eClass-RUF-PR_VA_8_x_to_9_x.csv = Relations Properties-Values
eClass-RUF-UN_8_x_to_9_x-en_US.csv = Table of units

Content of the data sets:
eCl@ss - Mapping of Release 8.x to Release 9.x – English (Release Update Files)
The file contains all data of the SourceReleases 8.0 and 8.1, i.e. it is valid for all 8.x-versions.
Format of data sets:
CSV, data sets separated by semicolon (1st line = field titles), Codepage: UTF-8

3.1 About the use of the files

You can only use these mapping tables, if you possess both a source release (8.x) and the target release 9.x and if you are a registered user of the eCl@ss standard.

The TU files for classes and properties contain the predecessor-successor-relationship of the changed classes and properties respectively in release 9.x. In the several tables of the specific structural elements (e.g. …9_x_CC_en.csv) all absolute changes are listed, i.e. all elements and relations that are no more part of release 9.x are listed as “CLOSED”, all new ones are listed as “NEW”. Those elements marked with “VERSION NUMBER“ have been adapted, but their concept was not changed, i.e. their identifier did not change, only their version number was raised.

Update-to-date information and a detailed description can be found in the eCl@ss wiki:
http://wiki.eclass.eu/wiki/eCl@ss_Release_Update_Files

3.2 Structure of the Transaction Upgrades (TU)

3.2.1 eClass-RUF-TU-CC_8_x_to_9_x.csv (Class-Update-Table)

No	Attribute name	Description	Length
1	Command	Specifies the type of change that occurred in the TargetRelease: • NEW: New element in TargetRelease • MOVE: The class was moved in the hierarchy (CodedName changed), only level 4 • SPLIT: The class was split into several other classes and deprecated, only level 4 • JOIN: The class was joined into another class and deprecated, only level 4 • VERSION NUMBER: The element was changed without changing the concept (e.g. textual correction). Identifier (CHAR6) and coded name do not change. • CLOSED: The element from the SourceRelease was removed here in the TargetRelease	CHAR(20)
2	IrdiSourceRelease	Primary key of the predecessor class in the SourceRelease; International Registration Data Identifier of the class, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
3	CodedNameSourceRelease	eCl@ss class code of the predecessor (class in SourceRelease)	CHAR(8)
4	IrdiTargetRelease	Primary key of the successor class in the TargetRelease; International Registration Data Identifier of the class, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
5	CodedNameTargetRelease	eCl@ss class code of the successor (class in TargetRelease)	CHAR(8)
6	SourceRelease	e.g. eCl@ss 8.1	CHAR(13)
7	TargetRelease	e.g. eCl@ss 9.0	CHAR(13)

Examples:

Command	IrdiSourceRelease	CodedName SourceRelease	IrdiTargetRelease	CodedName TargetRelease	Source Release	Target Release
MOVE	0173-1#01-AGZ365#007	27250580	0173-1#01-AGZ365#008	19240101	eCl@ss7.1	eCl@ss8.0
JOIN	0173-1#01-AGZ364#007	27250506	0173-1#01-AEK865#001	19170125	eCl@ss7.1	eCl@ss8.0
JOIN	0173-1#01-AGZ360#007	27250502	0173-1#01-AEK865#001	19170125	eCl@ss7.1	eCl@ss8.0
SPLIT	0173-1#01-AKM388#009	24230101	0173-1#01-AAX040#012	23330103	eCl@ss7.1	eCl@ss8.0
SPLIT	0173-1#01-AKM388#009	24230101	0173-1#01-AEL161#001	23330113	eCl@ss7.1	eCl@ss8.0

Join:

Classes 27250506 and 27250502 were joined in the new class 19170125 in release 9.0. The sources will not be published any more. Join means: from specific to more general.

Move:
Class 27250580 was moved to class 19240101 in release 9.0. Only the version number changes.

Split:
Class 24230101 was split into two new classes in release 9.0: 23330103 and 23330113. The two new classes persist, 24230101 will not be published any more. Split means: from general to more specific.

3.2.2 eClass-RUF-TU-PR_8_x_to_9_x.csv (Property-Update-Table)

No	Attribute name	Description	Length
1	Command	Specifies the type of change that occurred in the TargetRelease: • NEW: New assignment in TargetRelease • VERSION: At least one of the elements was changed without changing the concept (e.g. textual correction). Identifiers do not change. • REPLACED_PROP: _COMPATIBLE The element was replaced by another identical element (a compatible replacement according to ISO Change Management). Valuations are still valid. • REPLACED_PROP: _INCOMPATIBLE The element was substituted by another similar element (an incompatible substitution according to ISO Change Management). Valuations might become invalid. • CLOSED The element from the SourceRelease was removed here in the TargetRelease	CHAR(20)
2	IrdiCCSourceRelease	Primary key of the predecessor class in the SourceRelease; International Registration Data Identifier of the class, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
3	CodedNameSourceRelease	eCl@ss class code of the predecessor (class in SourceRelease)	CHAR(8)
4	IrdiPRSourceRelease	Primary key of the assigned property in the SourceRelease; International Registration Data Identifier, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
5	IrdiCCTargetRelease	Primary key of the successor class in the TargetRelease; International Registration Data Identifier of the class, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
6	CodedNameTargetRelease	eCl@ss class code of the successor (class in TargetRelease)	CHAR(8)
7	IrdiPRTargetRelease	Primary key of the assigned property in the TargetRelease; International Registration Data Identifier, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
8	SourceRelease	e.g. eCl@ss 8.1	CHAR(13)
9	TargetRelease	e.g. eCl@ss 9.0	CHAR(13)

The table contains those cases, where the relation between a property and a class has changed. If a property in a class was replaced or substituted by another property the old property will not be part of the target release in this context.

Compatible replacement: The replacement of an old property by a new one is compatible, i.e. a user's valuation is still valid.
Incompatible replacement: The replacement of an old property by a new one is incompatible, i.e. manual adaption of the data is necessary. Note: the old property was incorrect and is substituted by the new correct one. The new property might differ in data type or unit.

Examples:

Command	IrdiCC Source Release	Coded Name Source Release	IrdiPR Source Release	IrdiCC Target Release	Coded Name Target Release	IrdiPR Target Release	Source Release	Target Release
NEW				0173-1#01-AEL428#001	24321109	0173-1#02-BAB678#006	eCl@ss8.1	eCl@ss9.0
REPLACED_PROP _COMPATIBLE	0173-1#01-AKF979#009	24340711	0173-1#02-AAO223#001	0173-1#01-AKF979#010	24340711	0173-1#02-AAO192#002	eCl@ss8.1	eCl@ss9.0
REPLACED_PROP _INCOMPATIBLE	0173-1#01-BAD966#007	34301104	0173-1#02-BAJ012#006	0173-1#01-BAD966#008	34301104	0173-1#02-AAS244#001	eCl@ss8.1	eCl@ss9.0

NEW The property BAB678 is newly assigned to the class 24321109 in the target release.

COMPATIBLE REPLACE

Property AAO223 that was assigned to class 24340711among others is replaced by the compatible property AAO192.

AAO223
- Preferred name: Type of Battery
- Definition: group of batteries with comparable attributes
- Data type: STRING

AAO192
- Preferred name: Designation of battery
- Definition: coded description of a battery
- Data type: STRING

INCOMPATIBLE REPLACE

In the context of class 34301104 the property BAJ012 that was assigned to the class in 8.1 is substituted by property AAS244 that has a different data type.

BAJ012
- Preferred name: Pharmaceutical central number
- Data type: INTEGER_MEASURE

AAS244
- Preferred name: Pharmaceutical central number
- Data type: STRING

3.3 Classification structure

3.3.1 eClass-RUF-CC-8_x_to_9_x-en_US.csv (Class table)

No	Attribute name	Description	Length
1	Command	Specifies the type of change that occurred in the TargetRelease: • MOVE: The class was moved in the hierarchy (CodedName changed), only level 4 • SPLIT: The class was split into several other classes and deprecated, only level 4 • JOIN: The class was joined into another class and deprecated, only level 4 • NEW: New element in TargetRelease • VERSION NUMBER: The element was changed without changing the concept (e.g. textual correction). Identifier (CHAR6) and coded name do not change. • CLOSED The element from the SourceRelease was removed here in the TargetRelease	CHAR(20)
2	IrdiCC	Primary key of the class in the SourceRelease; International Registration Data Identifier of the class, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
3	VersionDate	Publication date of version	CHAR(10)
4	CodedName	eCl@ss class code	CHAR(8)
5	Level	Hierarchichal level in class tree	CHAR(1)
6	PreferredName	Name	CHAR(80)
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	Deprecated	Specifies if the element is deprecated in the TargetRelease. Allowed values: {TRUE|FALSE}, true = element was deprecated and is no longer part of the TargetRelease	BOOLEAN
10	SourceRelease	e.g. eCl@ss 8.1	CHAR(13)
11	TargetRelease	e.g. eCl@ss 9.0	CHAR(13)

3.3.2 eClass-RUF-KW-SY_8_x_to_9_x_DE.csv (Keyword/Synonym table)

No	Attribute name	Description	Length
1	Command	Specifies the type of change that occurred in the TargetRelease: • NEW: New element in TargetRelease • VERSION NUMBER: The element was changed without changing the concept (e.g. textual correction). Identifier (CHAR6) and coded name do not change. • CLOSED The element from the SourceRelease was removed here in the TargetRelease	CHAR(20)
2	IrdiKWSY	Primary key of the keyword/synonym in the SourceRelease; International Registration Data Identifier, globally unique eCl@ss	CHAR(20)

		Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	
3	IrdiKWSY	Primary key of the target element (KW to CC, SY to PR); International Registration Data Identifier, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(10)
4	KeywordValue/Synonym Value	Name of the keyword/synonym	CHAR(80)
5	ISOLanguageCode	Language code according to ISO 639-1 / ISO 639-2, e.g. „en“	CHAR(2)
6	ISOCountryCode	Country code according to ISO 3166-1 / ISO 3166-2, e.g. “US”	CHAR(2)
7	Deprecated	Specifies if the element is deprecated in the TargetRelease. Allowed values: {TRUE|FALSE}, true = element was deprecated and is no longer part of the TargetRelease	BOOLEAN
8	SourceRelease	e.g. eCl@ss 8.1	CHAR(13)
9	TargetRelease	e.g. eCl@ss 9.0	CHAR(13)

3.3.3 eClass-RUF-PR_8_x_to_9_x_EN.csv

No	Attribute name	Description	Length
1	Command	Specifies the type of change that occurred in the TargetRelease: • NEW: New element in TargetRelease • VERSION NUMBER: The element was changed without changing the concept (e.g. textual correction). Identifier (CHAR6) and coded name do not change. • CLOSED The element from the SourceRelease was removed here in the TargetRelease • REPLACE: The element was replaced by another identical element (a compatible replacement according to ISO Change Management) • SUBSTITUTE: The element was substituted by another similar element (an incompatible substitution according to ISO Change Management)	CHAR(20)
2	IrdiPR	Primary key of the property in the SourceRelease; International Registration Data Identifier, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
3	VersionDate	Publication date of version	CHAR(10)
4	PreferredName	Name	CHAR(80)
5	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 3.3.8	
6	ISOLanguageCode	Language code according to ISO 639-1 / ISO 639-2, e.g. „en“	CHAR(2)
7	ISOCountryCode	Country code according to ISO 3166-1 / ISO 3166-2, e.g. “US”	CHAR(2)
8	Deprecated	Specifies if the element is deprecated in the TargetRelease. Allowed values: {TRUE|FALSE}, true = element was deprecated and is no longer part of the TargetRelease	BOOLEAN
9	SourceRelease	e.g. eCl@ss 8.1	CHAR(13)
10	TargetRelease	e.g. eCl@ss 9.0	CHAR(13)

Note 1 on data types:
eCl@ss has introduced with release 8.0 many new data types that might not be interpretable by every system. In this case, eCl@ss recommends to distinguish between at least BOOLEAN, REAL, INTEGER (including count, measure and currency) and STRING properties. eCl@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 etc.). With eCl@ss release 8.0 the indication of digits before/after comma (REAL/INTEGER) and the number of characters (STRING) are no longer mandatory.

3.3.4 eClass-RUF-VA_8_x_to_9_x_EN.csv (Value table)

No	Attribute name	Description	Length
1	Command	Specifies the type of change that occurred in the TargetRelease: • NEW: New element in TargetRelease • VERSION NUMBER: The element was changed without changing the concept (e.g. textual correction). Identifier (CHAR6) and coded name do not change. • CLOSED The element from the SourceRelease was removed here in the TargetRelease	CHAR(20)
2	IrdiVA	Primary key of the value in the SourceRelease; International Registration Data Identifier, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)

3	VersionDate	Publication date of version	CHAR(10)
4	Value	The actual value, the name	CHAR(80)
5	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 3.3.8	
6	ISOLanguageCode	Language code according to ISO 639-1 / ISO 639-2, e.g. „en“	CHAR(2)
7	ISOCountryCode	Country code according to ISO 3166-1 / ISO 3166-2, e.g. “US”	CHAR(2)
8	Deprecated	Specifies if the element is deprecated in the TargetRelease. Allowed values: {TRUE|FALSE}, true = element was deprecated and is no longer part of the TargetRelease	BOOLEAN
9	SourceRelease	e.g. eCl@ss 8.1	CHAR(13)
10	TargetRelease	e.g. eCl@ss 9.0	CHAR(13)

3.3.5 eClass-RUF-CC_PR_8_x_to_9_x.csv (Relations eClass-RUF-CC-8_x_to_9_x / eClass-RUF-PR-8_x_to_9_x)

No.	Attribute Name	Description	Length
1	Command	Specifies the type of change that occurred in the TargetRelease: • NEW: New element in TargetRelease • VERSION NUMBER: The element was changed without changing the concept (e.g. textual correction). Identifier (CHAR6) and coded name do not change. • CLOSED The element of SourceRelease was removed	CHAR(20)
2	IrdiCC	Primary key of the target class; International Registration Data Identifier of the class, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
3	IrdiPR	Primary key of the assigned property; International Registration Data Identifier of the property, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
4	Deprecated	Specifies if the element is deprecated in the TargetRelease. Allowed values: {TRUE|FALSE}, true = element was deprecated and is no longer part of the TargetRelease	BOOLEAN
5	SourceRelease	e.g. eCl@ss 8.1	CHAR(13)
6	TargetRelease	e.g. eCl@ss 9.0	CHAR(13)

3.3.6 eClass-RUF-PR_VA_8_x_to_9_x.csv (Relations eClass-RUF-PR_8_x_to_9_x / eClass-RUF-VA_8_x_to_9_x)

No.	Attribute Name	Description	Length
1	Command	Specifies the type of change that occurred in the TargetRelease: • NEW: New element in TargetRelease • VERSION NUMBER: The element was changed without changing the concept (e.g. textual correction). Identifier (CHAR6) and coded name do not change. • CLOSED The element of SourceRelease was removed	CHAR(20)
2	IrdiPR	Primary key of the target property; International Registration Data Identifier of the class, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
3	IrdiVA	Primary key of the assigned value; International Registration Data Identifier of the property, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
4	Deprecated	Specifies if the element is deprecated in the TargetRelease. Allowed values: {TRUE|FALSE}, true = element was deprecated and is no longer part of the TargetRelease	BOOLEAN
5	SourceRelease	e.g. eCl@ss 8.1	CHAR(13)
6	TargetRelease	e.g. eCl@ss 9.0	CHAR(13)

Note 1:
Prior to 8.0 eCl@ss interpreted its value lists as open, i.e. as suggestions that were never intended to be exhaustive. As the ISO defines value lists as restrictive and exclusive eCl@ss had to change its structure to be ISO-compliant. Therefore eCl@ss distinguishes now between value lists (ISO view) and proposal lists (proposed "open" lists that are not exhaustive). Therefore, most values that were noted until 6.2 are now marked as CLOSED as they are to be interpreted as restrictive. Correspondingly, all relations between properties and values in the context of a class listed in the value proposal file (eClass7_0_PR_VA_suggested_en_02.csv) are new, i.e. all relations listed in that file are interpreted as NEW and not published here again.

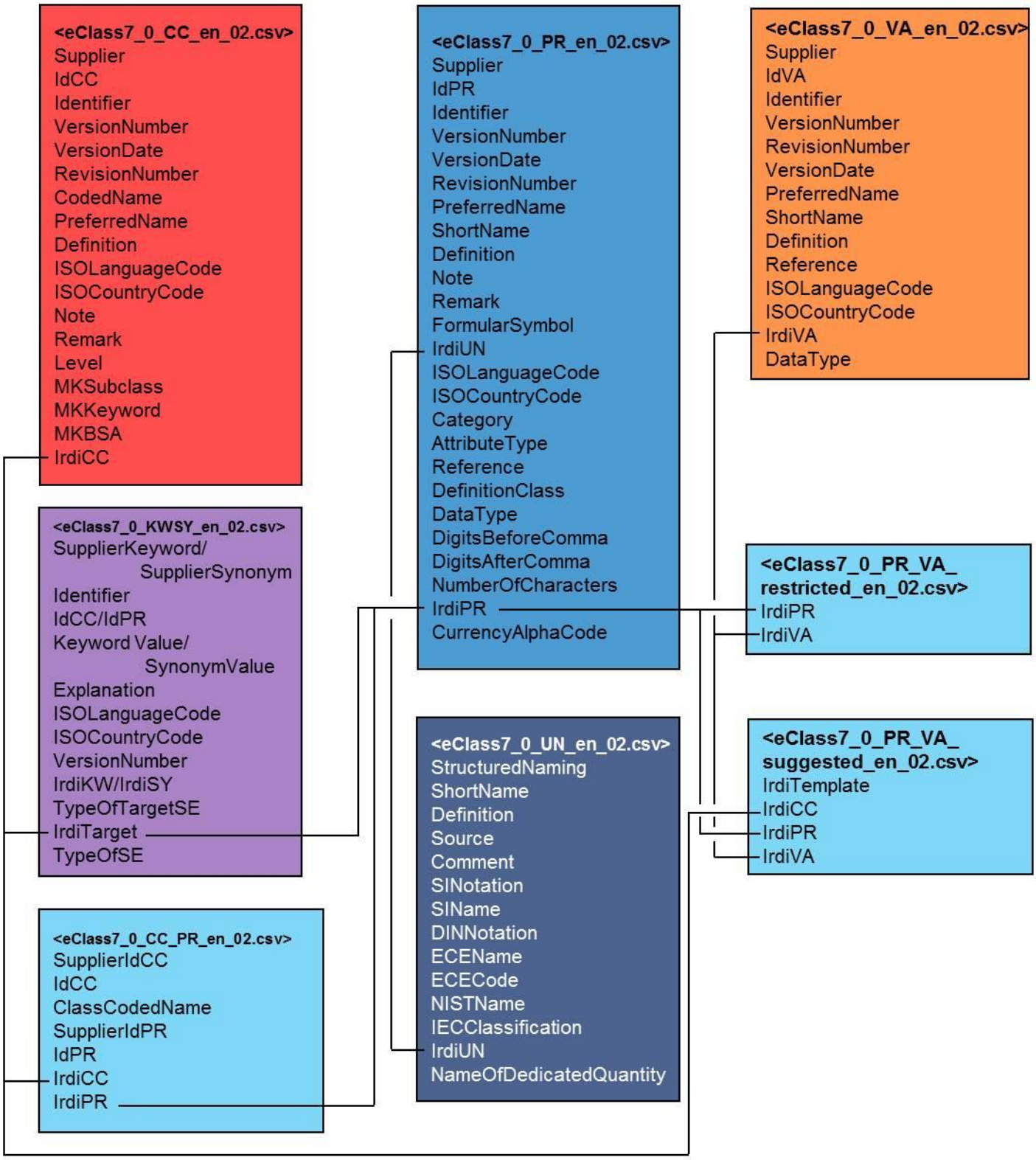
3.3.7 eClass-RUF-UN-8_x_to_9_x_en_US.csv (Unit table)

No	Attribute Name	Description	Length
1	Command	Specifies the type of change that occurred in the TargetRelease: • NEW: New element in TargetRelease • VERSION NUMBER: The element was changed without changing the concept (e.g. textual correction). Identifier (CHAR6) and coded name do not change. • CLOSED The element from the SourceRelease was removed here in the TargetRelease	CHAR(20)
2	IrdiUN	Primary key of the eCl@ss unit; International Registration Data Identifier, globally unique eCl@ss Identifier (Supplier+TypeOfSE+Identifier+VersionNumber)	CHAR(20)
3	StructuredNaming	Structured Naming of the unit, e.g. “volt litre^-1 minute^-1”	CHAR(1000)
4	ShortName	Short name	CHAR(1000)
5	NameOfDedicatedQuantity	Name of the superordinate quantity according to DIN	CHAR(1000)
6	Deprecated	Specifies if the element is deprecated in the TargetRelease. Allowed values: {TRUE|FALSE}, true = element was deprecated and is no longer part of the TargetRelease	BOOLEAN
7	SourceRelease	e.g. eCl@ss 8.1	CHAR(13)
8	TargetRelease	e.g. eCl@ss 9.0	CHAR(13)

3.3.8 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

3.4 Structure & Relations



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