1. Nonwarranty and conditions of use

No liability whatsoever will be accepted for the eCl@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.

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

2. General information about eCl@ss

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

With eCl@ss a common language is 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 eCl@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.

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 class structure of eCl@ss 9.0 ADVANCED in a specific language ("xy" stands for a language code that is part of the files. The list of all language codes is attached in 4.

Starting with eCl@ss Release 7.0, there are two different versions of eCl@ss which contain the same classes, but differ in the product description on the basis of properties and values:

-   BASIC (in .csv or .xml format). The BASIC version contains only the content that could be represented in a .csv format that was the exclusively used export format before 7.0. Therefore, it does not contain property block structures nor dynamic elements as in the ADVANCED version. BASIC does contain all classes of the ADVANCED, but the product description with the help of properties and values is structured a lot easier. BASIC is therefore a subset of ADVANCED.

-   ADVANCED (in .xml format). The ADVANCED version is the leading version and built on the basis of the data model ISO13584. It contains all structural elements of the eCl@ss classification system including property blocks, dynamic elements such as reference properties, polymorphism and cardinality blocks. Each classification class refers to both an ADVANCED and a BASIC application class that contains the product description with the help of properties and values. The ADVANCED version contains the complete eCl@ss content.

Format of the data sets:
eCl@ss XML 2.0 (contains OntoML, see ISO 13584-32:2010, with a few optional enhancements), Encoding: UTF-8.

XML-Scheme:
The description of the used XML scheme is available here
http://www.eclass.eu/static/eClassXML/2.0/eCl@ssXML/dictionary.xsd
or to be found in the eCl@ss wiki: http://wiki.eclass.eu/wiki/ISO_13584-32_ontoML

Content of the data sets:
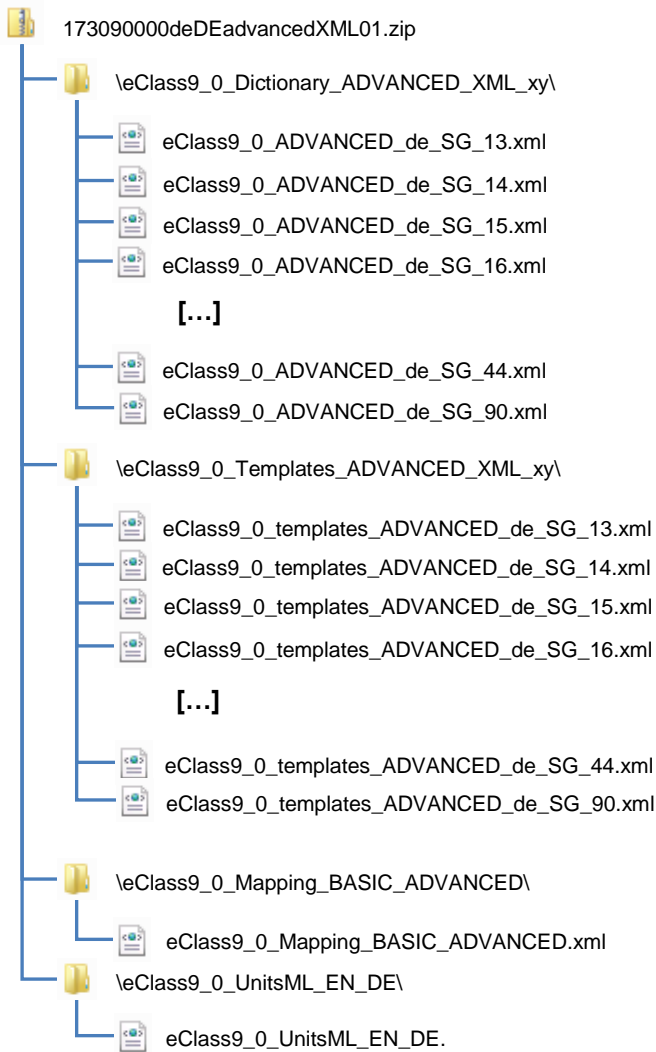eCl@ss Release 9.0 ADVANCED – language-specific

For each segment two .xml files are included:
-   an .xml file that contains the eCl@ss dictionary ADVANCED
-   an .xml file that contains the corresponding templates for ADVANCED. Templates implement a data requirement statement for the data exchange so that a data sender and a receiver can define e.g. orders, mandatory and optional fields etc. More information in the template scheme:
    http://www.eclass.eu/static/eClassXML/2.0/eCl@ssXML/template.xsd or in the eCl@ss Wiki:
    http://wiki.eclass.eu/wiki/Templates

Structure of the data sets:

```
📦 173090000deDEadvancedXML01.zip
├── 📁 \eClass9_0_Dictionary_ADVANCED_XML_xy\
│       📄 eClass9_0_ADVANCED_de_SG_13.xml
│       📄 eClass9_0_ADVANCED_de_SG_14.xml
│       📄 eClass9_0_ADVANCED_de_SG_15.xml
│       📄 eClass9_0_ADVANCED_de_SG_16.xml
│               [...]
│       📄 eClass9_0_ADVANCED_de_SG_44.xml
│       📄 eClass9_0_ADVANCED_de_SG_90.xml
├── 📁 \eClass9_0_Templates_ADVANCED_XML_xy\
│       📄 eClass9_0_templates_ADVANCED_de_SG_13.xml
│       📄 eClass9_0_templates_ADVANCED_de_SG_14.xml
│       📄 eClass9_0_templates_ADVANCED_de_SG_15.xml
│       📄 eClass9_0_templates_ADVANCED_de_SG_16.xml
│               [...]
│       📄 eClass9_0_templates_ADVANCED_de_SG_44.xml
│       📄 eClass9_0_templates_ADVANCED_de_SG_90.xml
├── 📁 \eClass9_0_Mapping_BASIC_ADVANCED\
│       📄 eClass9_0_Mapping_BASIC_ADVANCED.xml
└── 📁 \eClass9_0_UnitsML_EN_DE\
        📄 eClass9_0_UnitsML_EN_DE.
```

List of all contained files:

File	Content
eClass9_0_ADVANCED_xy_SG_13.xml	.xml file of the segment 13 Development "(Service)" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_14.xml	.xml file of the segment 14 "Logistics (Service)" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_15.xml	.xml file of the segment 15 "Maintenance (Service)" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_16.xml	.xml file of the segment 16 "Food, beverage, tobacco" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_17.xml	.xml file of the segment 17 "Machine, device (for special applications)" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_18.xml	.xml file of the segment 18 "Equipment f. mining, metallurgical plant, rolling mill a. foundry" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_19.xml	.xml file of the segment 19 "Information, communication and media technology" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_20.xml	.xml file of the segment 20 "Packing material" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_21.xml	.xml file of the segment 21 " Manufacturing facility, workshop equipment, tool" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_22.xml	.xml file of the segment 22 "Construction technology" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_23.xml	.xml file of the segment 23 "Machine element, fixing, mounting" in the ADVANCED version language-specific

eClass9_0_ADVANCED_xy_SG_24.xml	.xml file of the segment 24 "Office product, facility and technic, papeterie" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_25.xml	.xml file of the segment 25 "General service" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_26.xml	.xml file of the segment 26 "Energy, extraction product, secondary raw material and residue" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_27.xml	.xml file of the segment 27 "Electric engineering, automation, process control engineering" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_28.xml	.xml file of the segment 28 "Automotive technology" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_29.xml	.xml file of the segment 29 „Home economics, Home technology" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_30.xml	.xml file of the segment 30 "Auxiliary supply, additive, cleaning agent" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_31.xml	.xml file of the segment 31 "Polymer" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_32.xml	.xml file of the segment 32 "Laboratory material, Laboratory technology " in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_33.xml	.xml file of the segment 33 "Installation (complete)" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_34.xml	.xml file of the segment 34 "Medicine, medical technology" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_35.xml	.xml file of the segment 35 "Semifinished product, material" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_36.xml	.xml file of the segment 36 "Machine, apparatus" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_37.xml	.xml file of the segment 37 "Industrial piping" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_38.xml	.xml file of the segment 38 "Inorganic Chemical" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_39.xml	.xml file of the segment 39 "Organic Chemical" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_40.xml	.xml file of the segment 40 " Occupational safety, accident prevention" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_41.xml	.xml file of the segment 41 "Marketing" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_42.xml	.xml file of the segment 42 "In-vitro diagnostic" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_43.xml	.xml file of the segment 43 "Optics" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_44.xml	.xml file of the segment 44 "Motor Vehicle" in the ADVANCED version language-specific
eClass9_0_ADVANCED_xy_SG_90.xml	.xml file of the segment 90 "Interim class (unclassified)" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_13.xml	.xml file of the template of segment 14 "Development (Service)" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_14.xml	.xml file of the template of segment 14 "Logistics (Service)" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_15.xml	.xml file of the template of segment 15 "Maintenance (Service)" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_16.xml	.xml file of the template of segment 16 "Food, beverage, tobacco" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_17.xml	.xml file of the template of segment 17 "Machine, device (for special applications)" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_18.xml	.xml file of the template of segment 18 "Equipment f. mining, metallurgical plant, rolling mill a. foundry" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_19.xml	.xml file of the template of segment 19 "Information, communication and media technology" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_20.xml	.xml file of the template of segment 20 "Packing

	material" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_21.xml	.xml file of the template of segment 21 "Manufacturing facility, workshop equipment, tool" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_22.xml	.xml file of the template of segment 22 "Construction technology" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_23.xml	.xml file of the template of segment 23 "Machine element, fixing, mounting" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_24.xml	.xml file of the template of segment 24 "Office product, facility and technic, papeterie" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_25.xml	.xml file of the template of segment 25 "General service" in the ADVANCED version language-specific
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eClass9_0_templates_ADVANCED_xy_SG_32.xml	.xml file of the template of segment 32 "Laboratory material, Laboratory technology " in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_33.xml	.xml file of the template of segment 33 "Installation (complete)" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_34.xml	.xml file of the template of segment 34 "Medicine, medical technology" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_35.xml	.xml file of the template of segment 35 "Semifinished product, material" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_36.xml	.xml file of the template of segment 36 "Machine, apparatus" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_37.xml	.xml file of the template of segment 37 "Industrial piping" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_38.xml	.xml file of the template of segment 38 "Inorganic Chemical" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_39.xml	.xml file of the template of segment 39 "Organic Chemical" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_40.xml	.xml file of the template of segment 40 "Occupational safety, accident prevention" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_41.xml	.xml file of the template of segment 41 "Marketing" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_42.xml	.xml file of the template of segment 42 "In-vitro diagnostic" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_43.xml	.xml file of the template of segment 43 "Optics" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_44.xml	.xml file of the template of segment 44 "Motor Vehicle" in the ADVANCED version language-specific
eClass9_0_templates_ADVANCED_xy_SG_90.xml	.xml file of the template of segment 90 "Interim class (unclassified)" in the ADVANCED version language-specific
eClass9_0_UnitsML_EN_DE.xml	.xml- file for eCl@ss units – English and German
eClass9_0_Mapping_BASIC_ADVANCED	.xml-file for the mapping of the BASIC and ADVANCED version, i.e. BASIC ApplicationClass and ADVANCED ApplicationClass
eClass_9_0_XML_ADVANCED_Read_Me_xy_v1.pdf	READ-ME-File for the ADVANCED version

4. List of ISO language codes used in eCl@ss

Language	Language Code (ISO 639)	Country Code (ISO 3166)
English (USA)	en	US
German (Germany)	de	DE
French (France)	fr	FR
Chinese, simple (China)	zh	CN
Chinese, traditional (Taiwan)	zh	TW
Spanish (Spain)	es	ES
Italian	it	IT
Czech	cs	CZ
Japanese	ja	JA
Korean (South Korea)	ko	KR
Dutch (Netherlands)	nl	NL
Portuguese (Portugal)	pt	PT
Russian	ru	RU
Thai	th	TH
Turkish	tr	TR
Polish	pl	PL
Bulgarian	bg	BG
Hungarian	hu	HU
Romanian	ro	RO
Slovakian	sk	SK
Swedish	sv	SV

5. Support: Authorized eCl@ss IT 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