



# ECLASS WEBSERVICE

RETRIEVAL OF ECLASS CONTENT VIA WEBSERVICE

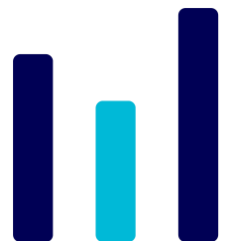


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# 01

## INTRODUCTION OF THE ECLASS WEBSERVICE



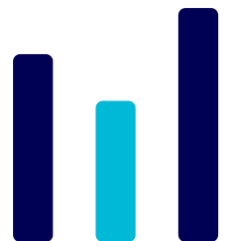
# WHY USE THE WEBSERVICE?



The ECLASS Standard was used to this point exclusively delivered as a set of big files, which contained a complete ECLASS Release.

Applications however often only need a small subset of the ECLASS Standard, e.g. a specific classification class with a couple of properties and values. And they need them per request.

For that reason ECLASS now offers a REST service, which allows to request specific classification classes, properties, values, units and mappings to be requested. The handling of the complete dataset of a ECLASS XML is henceforth no longer required.

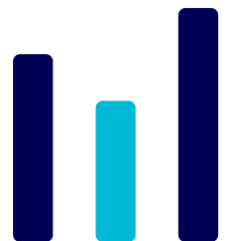


# WHAT IS THE ECLASS WEBSERVICE?



The ECLASS Webservice offers the possibility to request specific structure elements or mappings

- Request in two data formats (XML, JSON)
  - Besides the already introduced XML format, customers can retrieve ECLASS content in the compact and easy-to-implement format of JSON
- ECLASS structure elements
- Mapping files
  - Between ECLASS Releases
  - Between ECLASS and other standards, e.g. ETIM



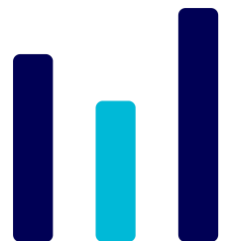
# WHAT IS THE ECLASS XML WEBSERVICE?



The ECLASS XML Webservice offers fundamentally the following 4 options:

- Request of classification classes
  - Classification classes of level 1 to 3 (parent classes are included)
  - Classification classes of level 4 (parent classes as well as complete application classes are included)
  - Application classes (related structure elements are included)
  - Aspects (related structure elements are included)
  - Blocks (related structure elements are included)
- Properties (existing value lists and values are included)
- Units
- Mappings
  - Transaction Update File (TUF)
  - Between ECLASS and other standards, e.g. ETIM

The complete technical documentation is accessible on [SwaggerHub](#).



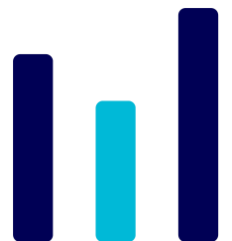
# WHAT IS THE ECLASS JSON WEBSERVICE?



The ECLASS JSON Webservice offers the following options for requests:

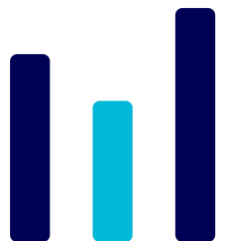
- Every structure element (SE) can be requested specifically (for requests of SEs only the information for this element are returned, related SEs are referenced)
- Mappings
  - Basic-Advanced Mapping
  - Transaction Update File (TUF)
  - Between ECLASS and other standards, e.g. ETIM

The complete technical documentation is accessible on [SwaggerHub](#).



In contrast to the XML Webservice, the JSON Webservice enables

- the navigation through the ECLASS classification
- the search for preferred names
- the differentiated request of classes (i.e. CC, AC, AS, BL)





# WHAT ARE THE USPS?



## ECLASS WEBSERVICE – USE CASE: CUSTOMER

### Get what you need

Classes, properties, values etc. of every segment.  
What you request is what you get.

### Pay what you use

Pay only the content which you request.  
Pay each IRDI once per request.

### One-time setup

Reduction of manual work.  
Extendable through the expert department without technical support.

### Update if needed

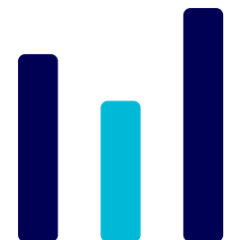
Reduce update efforts.  
More user friendly Release updates.

### Language integration

Up to 20 languages are prepared for ad-hoc integration into your system.  
Continuous updated between static Releases.

### Change product portfolio

Ad-hoc extension for your range of products.  
Speed to market.  
Usage of expert knowledge.



# WHAT ARE THE USPS?



## ECLASS WEBSERVICE – USE CASE: INTEGRATOR

### Product knowledge

Improved customer data model through universal, ready-to-use structure of classification.

### One-time integration

Reusable implementation for reduction of integration cost for customers.

### Customer USP

Integrated product ontology for data exchange alongside the value chain in one shared language.

### Flexibility

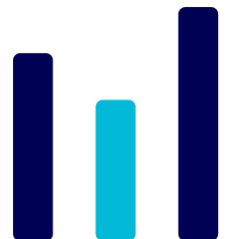
Simplified individual setups on basis of customer inquiries.

### Language integration

Simplified language integration  
Continuous updating between static releases.

### Bridge towards I4.0

System implementation towards the I4.0 AAS and its ECLASS integration.

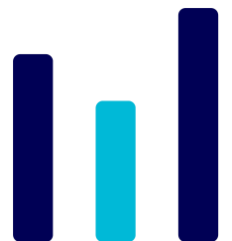


# WHAT ARE THE REQUIREMENTS FOR USAGE?



The requirements for the usage of the ECLASS Webservice:

- For authentication, a certificate is needed, which can be acquired by the user through the [ECLASS DownloadPortal](#)
- The connection towards the interface must be implemented independently



# 02

## **BILLING MODEL**



- Certificate acquisition via ECLASS DownloadPortal
  - No issuing fee for ECLASS Ordinary Members and Concordance Licensees
  - For all other users:
    - With a validity of 1 year: 400 €
    - With a validity of minimum 3 years: 250 € p.A.
- Retrieval of ECLASS content via ECLASS Webservice
  - Pay per IRDI
    - Each request is calculated separately
    - Each IRDI costs 0.05 €
- Billing
  - Quarterly



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## **ECLASS ASSOCIATION**

ECLASS Webservice

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[ECLASS.eu](http://ECLASS.eu)

A series of light blue horizontal bars of varying lengths and positions at the bottom of the page, including a long bar on the left, a shorter bar on the right, and two more bars at the very bottom.