ECLASS WEBSERVICE

RETRIEVAL OF ECLASS CONTENT VIA WEBSERVICE
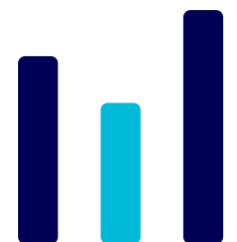
TABLE OF CONTENT

ECLASS

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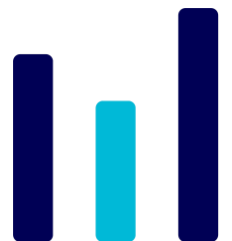## INTRODUCTION OF THE ECLASS WEBSERVICE

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.
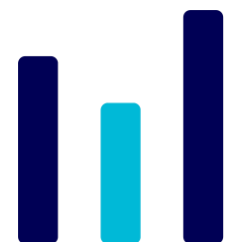
ECLASS Webservice

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
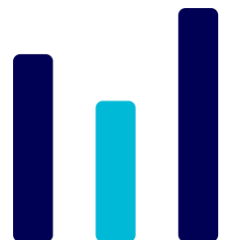 - Between ECLASS and other standards, e.g. ETIM

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

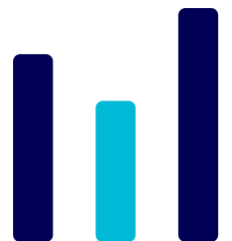The complete technical documentation is accessible on SwaggerHub.

WHAT IS THE ECLASS JSON WEBSERVICE?

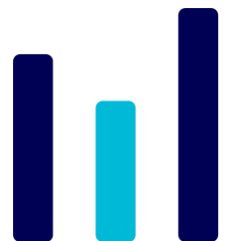The ECLASS JSON Webservice offers the following options for requests:

- 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.

EXTENDED FUNCTIONALITY JSON WEBSERVICE

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.
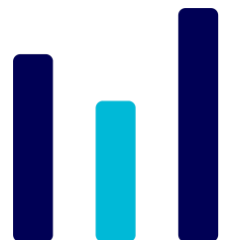
Update if needed
Reduce update efforts.
More user friendly Release updates.

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.

ECLASS WEBSERVICE – USE CASE: INTEGRATOR

E CLASS

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.
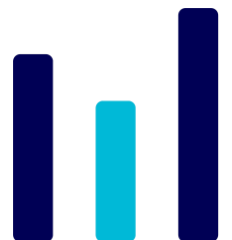
Flexibility
Simplified individual setups on basis of customer inquiries.

Language integration
Simplified language integration Continuous updating between static releases.

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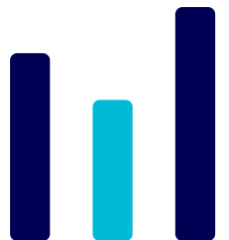System implementation towards the I4.0 AAS and its ECLASS integration.

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 Shop

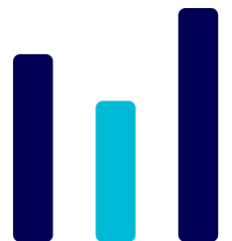- The connection towards the interface must be implemented independently

ECLASS Webservice

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BILLING MODEL

BILLING MODEL

≡ CLASS

- Certificate acquisition via ECLASS Shop
  - 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

ECLASS ASSOCIATION

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