ECLASS

TECHNICAL SPECIFICATION 48

ITEM DATA RETRIEVAL

BY RESTFUL WEB API

ECLASS e.V.

30.08.2024

Authors and contributors

ECLASS Center of Research and Development (CRD):

Dr. Oliver Drumm, Siemens AG

Petra Eder, SAP SE

Oliver Hadasch, Rösberg Engineering GmbH

Philippe Juhel, Schneider Electric SE

Thorsten Kroke, ECLASS Head Office

Stefan Mülhens, AmpereSoft GmbH

Nikolaus Ondracek, Paradine GmbH

Matthias Redecker, Weidmüller Interface GmbH & Co KG

Frank Scherenschlich, Class.Ing

Josef Schmelter, Phoenix Contact GmbH & Co. KG

and

Dr. Christian Block, ECLASS Head Office

Fabian Schwanitz, ECLASS Head Office

Please send remarks to crd@eclass.de

Revision History

Date	Version	Description	Who
30.03.2023	1.0	CRD decision about initial release	CRD
14.04.2023	1.0	Final adjustments in layout	Hassankhani, Schwanitz
14.04.2023	1.0	Published	Schwanitz
20.08.2024	2.0	Minor revisions, new version published	Mülhens, Schwanitz, Hassankhani
30.08.2024	2.0	Published	Schwanitz

Introduction

ECLASS is a cross-industry master-data business standard for products and services information to be exchanged in a computer-sensible form across all borders – across sectors, countries, languages and organizations. The ECLASS data dictionary is based on ISO 13584-42 and IEC 61360-2. It is used for the exchange of product data for procurement, eCommerce, engineering tools, etc.

In this document ECLASS provides a specification for designing a RESTful Web API to retrieve item data. As a standardized proposal this specification is designed and agreed by different product and software manufacturers. The API is expected to be implemented by product manufacturers directly (using their own technical environment) providing their product data and by operators of data portals to provide product data across different manufacturers.

Table of contents

1 Scope

In scope:

- formats of retrieval: JSON
- defined minimum content plus classification data
- retrieval of ECLASS/Advanced content
- complete item description, multi-language
- not restricted to ECLASS/Advanced data – also usable ECLASS/Basic or ETIM
- minimum content plus classification data

Out of scope:

- the retrieval of BMEcat data like logistic information (packaging etc.) or surcharges etc. is not provided with this API (will potentially added later)
- other formats (like ECLASS XML) are out of scope by now, maybe added later

2 Definitions, Acronyms and Abbreviations

Definitions, acronyms and abbreviations are described in the ECLASS Technical Support (eclass.eu/support).

3 Preliminary

The purpose of this document is to provide a specification for a very simple, up-to-date and as much as possible RESTful API. By now, JSON is used for data exchange.

ECLASS aims to standardize this kind of API to prevent the different manufacturers and data portals to provide many different and specific APIs which would result in much effort on the implementor's side (e. g. engineering software tools).

4   RESTful API

The current version of the API is available on SWAGGER Hub including detailed descriptions using OpenAPI 3.0:

https://app.swaggerhub.com/apis/ECLASS_Standard/ECLASS_ItemDataRetrieval/2.0.2

Since the documentation on SWAGGER Hub represents the currently released version of the specification, there are no more detailed descriptions in this document.

5   References

ECLASS Technical Specification 15 URI Path

ECLASS_ItemDataRetrieval | 2.0.2 | ECLASS_Standard | SwaggerHub