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Part 2: Vocabulary

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Partie 2: Vocabulaire

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights. Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 184, *Automation systems and integration*, Subcommittee SC 4, *Industrial data*.

A list of all parts in the ISO 10303 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

The ISO 10303 series of International Standards describe the computer-interpretable representation of product information and product data. The objective is to provide a neutral mechanism capable of describing products throughout their life cycle. This mechanism is suitable not only for neutral file exchange, but also as a basis for implementing and sharing product databases, and as a basis for archiving.

This document provides a listing of concepts, including terms and EXPRESS entity type definitions required to understand the ISO 10303 series. When a concept is used in more than one industrial domain, each usage includes a domain-specific definition of the concept. This document does not include all relevant concepts, yet. Future editions of this document will add concepts from recently published parts of ISO 10303. Due to the dynamic nature of the vocabulary of the ISO 10303 series, future editions of this document will be published as a standard in database form.

By providing a single source of concepts across the ISO 10303 series, this document facilitates concept reference and encourages standards developers, also those outside of the ISO 10303 series or outside of ISO/TC 184/SC 4, to reuse existing EXPRESS entity types.

The electronic insert, as described in Annex A, provides all concepts of the document that can be used to populate vocabulary dictionaries, to perform analysis on, and as a basis for development of architectural models and applications.

NOTE This document uses bold type to distinguish EXPRESS construct names from the generic concept being represented by that concept.

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Industrial automation systems and integration — Product data representation and exchange —

Part 2: Vocabulary

1 Scope

This document specifies the vocabulary for the ISO 10303 series.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org

3.1 General terms

3.1.1
ISO 10303 application module
concrete syntax used to specify the domain of the entry included in an application module

3.1.2
application construct
collection of entities, types, functions, rules and references that are based on resource constructs and that specialize those resource constructs as necessary to define a valid description of an aspect of product data for specific application areas

3.1.3
saved view
stored and retrievable specific orientation and magnification factor of a model

3.1.4
subassembly
constituent that is an assembly

3.1.5
supplemental geometry
geometric elements included in product definition data to communicate design requirements but not intended to represent a portion of the manufactured product

3.1.6
proxy
object that acts in the role of another object defined in an external data set

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