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Industrial automation systems and integration — Parts library —

Part 1:
Overview and fundamental principles

Systèmes d'automatisation industrielle et intégration — Bibliothèque de composants —

Partie 1: Aperçu et principes fondamentaux

Reference number
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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 13584 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 13584-1 was prepared by Technical Committee ISO TC184, *Industrial automation systems and integration*, Subcommittee SC 4, *Industrial data.*

ISO 13584 consists of the following parts under the general title *Industrial automation systems and integration — Parts library:*

— *Part 1: Overview and fundamental principles*

— *Part 10: Conceptual description: Conceptual model of parts library*

— *Part 20: Logical resource: Logical model of expressions*

— *Part 24: Logical resource: Logical model of supplier library*

— *Part 26: Logical resource: Information supplier identification*

— *Part 31: Implementation resource: Geometric programming interface*

— *Part 42: Description methodology: Methodology for structuring part families*

— *Part 101: View exchange protocol: Geometric view exchange protocol by parametric program*

— *Part 102: View exchange protocol: View exchange protocol by ISO 10303 conforming specification*

The structure of ISO 13584 is described in ISO 13584-1. The numbering of the parts of ISO 13584 reflects its structure:

— Parts 20 to 29 specify the logical resources;

— Parts 30 to 39 specify the implementation resources;

— Parts 40 to 49 specify the description methodology;

— Parts 100 to 199 specify the view exchange protocol.

Should further parts of ISO 13584 be published, they will follow the same numbering pattern.

Annex A forms a normative part of this part of ISO 13584. Annex B is for information only.

Introduction

ISO 13584 is an International Standard for the computer-interpretable representation and exchange of parts library data. The objective is to provide a neutral mechanism capable of transferring parts library data, independent of any application that is using a parts library data system. The nature of this description makes it suitable not only for the exchange of files containing parts, but also as a basis for implementing and sharing databases of parts library data.

ISO 13584 is organized as a series of parts, each published separately. The parts of ISO 13584 fall into one of the following series: conceptual descriptions, logical resources, implementation resources, description methodology, and view exchange protocol. The series are described in this part of ISO 13584, which also provides an overview of ISO 13584 and its structure.