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## **Industrial automation systems and integration — Parts library —**

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

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

*Partie 24: Ressource logique: Modèle logique de fournisseur*



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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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13584-24 was prepared by Technical Committee ISO/TC 184, *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 20: Logical resource: Logical model of expressions*
- *Part 24: Logical resource: Logical model of supplier library*
- *Part 25: Logical resource: Logical model of supplier library with aggregate values and explicit content*
- *Part 26: Logical resource: Information supplier identification*
- *Part 31: Implementation resources: Geometric programming interface*
- *Part 42: Description methodology: Methodology for structuring part families*
- *Part 101: Geometrical view exchange protocol by parametric program*
- *Part 102: View exchange protocol by ISO 10303 conforming specification*

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

- Parts 10 to 19 specify the conceptual descriptions;
- 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.

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## 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.

This International Standard is organized as a series of parts, each published separately. The parts of ISO 13854 fall into one of the following series: conceptual descriptions, logical resources, implementation resources, description methodology and view exchange protocol. The series are described in ISO 13584-1. This part of ISO 13584 is a member of the logical resources series.

This part of ISO 13584 specifies the generic resources needed for supplier library modelling and exchange. It also provides the EXPRESS integrated information models that permit the exchange of libraries that consist either of definitions of families of parts, representations of families of parts, or definitions of new representation categories that may be provided for any family of parts. Knowledge of EXPRESS as defined in ISO 10303-11 is required to understand this part of ISO 13584. Basic knowledge of ISO 13584-20 and ISO 13584-42 is also required.