

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Structuring of technical information and documentation

Structuration des informations et de la documentation techniques



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**STRUCTURING OF TECHNICAL INFORMATION
AND DOCUMENTATION**

FOREWORD

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International Standard IEC 62023 has been prepared by technical committee 3: Information structures, documentation and graphical symbols.

This second edition cancels and replaces the first edition of IEC 62023 published in 2000. This edition constitutes a technical revision.

This edition includes the following substantial changes with respect to the previous edition:

- the terminology used in the publication has been adapted to the one used in IEC 81346-1:2009 and IEC 62507-1:2010;
- the figures have been adapted to the principles used in IEC 81346-1:2009 in order to better illustrate the interrelations between the standards;
- the examples in the annexes have been provided with comments;

The text of this standard is based on the following documents:

FDIS	Report on voting
3/1050/FDIS	3/1071/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

IEC 62023 can be seen as a bridge between system structuring principles and documentation structuring principles, in that it provides:

- a standardization of common practice in manufacturing industry with regard to the organization of information / documentation according to the product structure by means of a main document;
- a further detailing and formalization of guidance already given in IEC 61355-1:2008, by the general establishment of the main document concept with explicit referencing to complementary documents in a document set for a technical object; and
- an application of the object concept from the structuring principles of IEC 81346-1:2009 in the area of document structuring. It goes beyond the existing documents in that it shows how objects with several aspects can be kept together in a systematic way.

In Product Data Management (PDM) systems the "objects" in the product structure, which are configuration controlled information objects, correspond logically to main documents. However, although they fulfil all necessary requirements for being documents, the term is sometimes not used for them.

STRUCTURING OF TECHNICAL INFORMATION AND DOCUMENTATION

1 Scope

This international standard provides rules for applying a method of structuring technical information and documentation by using a main document (leading document) for the clustering of the information for each object.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61082-1:2006, *Preparation of documents used in electrotechnology – Part 1: Rules*

IEC 61355-1:2008, *Classification and designation of documents for plants, systems and equipment – Part 1: Rules and classification tables*

IEC 61360, *Component data dictionary (CDD)*.
Available from: <<http://std.iec.ch/iec61360>>

IEC 62027: -, *Preparation of object lists, including parts lists*¹

IEC/PAS 62569-1, *Generic specification of information on products – Part 1: Principles and methods*

IEC 81346-1:2009, *Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations – Part 1: Basic rules*

IEC 82045-1:2001, *Document management – Part 1: Principles and methods*

IEC 82045-2:2004, *Document management – Part 2: Metadata elements and information reference model*

ISO 7200, *Technical product documentation – Data fields in title blocks and document headers*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply. In the definitions, terms that are defined elsewhere in this clause are shown in *italics*.

An alphabetical index of terms is given in 3.4.

NOTE Definitions taken over from other international standards are not necessarily literally cited, but adapted to the form required for definitions according to the ISO/IEC Directives.

¹ In preparation.