

Edition 2.0 2010-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Industrial systems, installations and equipment and industrial products – Identification of terminals within a system

Systèmes industriels, installations et appareils, et produits industriels – Identification des bornes dans le cadre d'un système





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION



INDUSTRIAL SYSTEMS, INSTALLATIONS AND EQUIPMENT AND INDUSTRIAL PRODUCTS – IDENTIFICATION OF TERMINALS WITHIN A SYSTEM

FOREWORD

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International Standard IEC 61666 has been prepared by IEC technical committee 3: Information structures, documentation and graphical symbols

This second edition cancels and replaces the first edition of IEC 61666 published in 1997. 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 Ed. 2;
- a more comprehensive description of the designation principles is provided;
- additional examples illustrating terminal designations related to the function aspect and location aspect are provided;
- an additional example illustrating the use of terminal designation sets is provided;
- the former informative Annex A has been turned into a clause in the standard.

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

| FDIS | Report on voting |
|-------------|------------------|
| 3/1001/FDIS | 3/1008/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- · withdrawn,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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INDUSTRIAL SYSTEMS, INSTALLATIONS AND EQUIPMENT AND INDUSTRIAL PRODUCTS – IDENTIFICATION OF TERMINALS WITHIN A SYSTEM

1 Scope

This International Standard establishes general principles for the identification of terminals of objects within a system, applicable to all technical areas (for example mechanical engineering, electrical engineering, construction engineering, process engineering). They can be used for systems based on different technologies or for systems combining several technologies.

Requirements for marking of terminal designations on products are not part of this publication.

NOTE The standard is based on the general principles for the structuring of systems including structuring of the information about systems, established in the International Standard ISO/IEC 81346 series, published jointly by IEC and ISO.

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 60417, Graphical symbols for use on equipment

IEC 60445, Basic and safety principles for man-machine interface, marking and identification – Identification of equipment terminals and conductor terminations

IEC 60757, Code for designation of colours

IEC 61082-1:2006, Preparation of documents used in electrotechnology – Part 1: Basic rules

IEC 81346-1, Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 1: Rules

IEC 81714-3, Design of graphical symbols for use in the technical documentation of products – Part 3: Classification of connect nodes, networks and their encoding

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

entity treated in a process of development, implementation, usage and disposal

NOTE 1 The object may refer to a physical or non-physical "thing", i.e. anything that might exist, exists or did exist.

NOTE 2 The object has information associated to it..

[IEC 81346-1, definition 3.1]