



NSAI
Standards

Irish Standard
I.S. EN 62507-1:2011

Identification systems enabling unambiguous information interchange - Requirements -- Part 1: Principles and methods (IEC 62507-1:2010 (EQV))

I.S. EN 62507-1:2011

Incorporating amendments/corrigenda issued since publication:

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<i>This document replaces:</i>	<i>This document is based on:</i> EN 62507-1:2011	<i>Published:</i> 4 February, 2011
This document was published under the authority of the NSAI and comes into effect on: 15 February, 2011		ICS number: 01.140 35.240
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EUROPEAN STANDARD

EN 62507-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2011

ICS 01.140; 35.240

English version

**Identification systems enabling unambiguous information interchange -
Requirements -**

**Part 1: Principles and methods
(IEC 62507-1:2010)**

Systèmes d'identification permettant
l'échange non ambigu de l'information -
Exigences -
Partie 1: Principes et méthodes
(CEI 62507-1:2010)

Anforderungen an Identifikationssysteme
zur Unterstützung eines eindeutigen
Informationsaustauschs -
Teil 1: Grundsätze und Methodik
(IEC 62507-1:2010)

This European Standard was approved by CENELEC on 2011-01-02. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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I.S. EN 62507-1:2011

EN 62507-1:2011

- 2 -

Foreword

The text of document 3/1007/FDIS, future edition 1 of IEC 62507-1, prepared by IEC TC 3, Information structures, documentation and graphical symbols, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62507-1 on 2011-01-02.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2011-10-02
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2014-01-02

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62507-1:2010 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

- | | | |
|---------------|------|--|
| IEC 81346-1 | NOTE | Harmonized as EN 81346-1. |
| ISO 9000:2005 | NOTE | Harmonized as EN ISO 9000:2005 (not modified). |
-

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61360-1	-	Standard data elements types with associated classification scheme for electric items - Part 1: Definitions - Principles and methods	EN 61360-1	-
IEC 81346-2	-	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 2: Classification of objects and codes for classes	EN 81346-2	-
IEC 82045-1	-	Document management - Part 1: Principles and methods	EN 82045-1	-
IEC 82045-2	-	Document management - Part 2: Metadata elements and information reference model	EN 82045-2	-
ISO/IEC 646	1991	Information technology - ISO 7-bit coded character set for information interchange	-	-
ISO/IEC 6523-1	-	Information technology - Structure for the identification of organizations and organization parts - Part 1: Identification of organization identification schemes	-	-
ISO/IEC 15418	-	Information technology - Automatic identification and data capture techniques - GS1 Application Identifiers and ASC MH10 Data Identifiers and maintenance	-	-
ISO/IEC 15434	-	Information technology - Syntax for high-capacity automatic data capture (ADC) media	-	-
ISO/IEC 15459-1	-	Information technology - Unique identification of transport units - Part 1: General	-	-
ISO/IEC 15459-2	-	Information technology - Unique identifiers - Part 2: Registration procedures	-	-
ISO/IEC 15459-4	-	Information technology - Unique identifiers - Part 4: Individual items	-	-
ISO/IEC 7064	-	Information technology - Security techniques - Check character systems	-	-
ISO 3166-1	-	Codes for the representation of names of countries and their subdivisions - Part 1: Country codes	EN ISO 3166-1	-

I.S. EN 62507-1:2011

EN 62507-1:2011

- 4 -

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 10303-11	-	Industrial automation systems and integration - Product data representation and exchange - Part 11: Description methods: The EXPRESS language reference manual	-	-

CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	7
4 General	10
4.1 Purpose of identification	10
4.2 Referencing and traceability	11
4.3 Permanence	12
4.4 Kinds of objects	13
4.5 Changes to an identified object.....	14
4.6 Identification schemes	14
4.7 Identifying attributes of an object	15
4.8 Identification of an issuing domain	15
4.9 Multiple identification of the same object	17
4.10 Storage and use of identification numbers	18
5 Documentation of an identification system.....	18
6 Generation of identification numbers.....	19
6.1 Principle methods	19
6.1.1 General.....	19
6.1.2 Method 1	19
6.1.3 Method 2.....	19
6.2 Construction of identification numbers.....	20
6.2.1 General.....	20
6.2.2 Issue (Registration).....	21
6.2.3 Identification number generators.....	21
6.2.4 Validation.....	22
7 Identification within a global context	22
8 Representation and presentation of identification numbers.....	22
8.1 Representation for use in computer systems.....	22
8.2 Presentation for human readers.....	23
8.2.1 General.....	23
8.2.2 Presentation of concatenated identifiers for human readers.....	23
8.2.3 Presentation of multiple identifiers for human readers	24
8.3 Indication of sub domains	24
8.4 Application of the domain identifier	24
9 Recommendations with regard to organization changes.....	25
10 Conformance	25
Annex A (informative) Types of identification systems	26
Annex B (normative) Reference information model.....	30
Annex C (informative) Example of documentation of an identification system.....	52
Annex D (informative) Invariant characters of ISO/IEC 646	54
Bibliography.....	55
Figure 1 – Illustration of the referencing mechanism	12

I.S. EN 62507-1:2011

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– 3 –

Figure 2 – Relations among occurrences (identified by concatenated letter codes) of types (identified by numbers) in a tree-like structure	13
Figure 3 – Information model principle	15
Figure 4 – Examples of identifying attributes for an object within a given domain	15
Figure 5 – Illustration of domains	16
Figure 6 – Organization-defined domain identification	17
Figure 7 – Illustration of identification in multiple domains	18
Figure 8 – Illustration of domain identification.....	22
Table 1 – Use of identifiers in a product context	13
Table 2 – Relations among domains, identifiers and identification numbers	17
Table 3 – Number of possible identification numbers.....	20

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**IDENTIFICATION SYSTEMS
ENABLING UNAMBIGUOUS INFORMATION INTERCHANGE –
REQUIREMENTS –****Part 1: Principles and methods**

FOREWORD

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International Standard IEC 62507-1 has been prepared by IEC technical committee 3: Information structures, documentation and graphical symbols..

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

FDIS	Report on voting
3/1007/FDIS	3/1024/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.

I.S. EN 62507-1:2011

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– 5 –

A list of all parts of the IEC 62507 series, published under the general title, *Identification systems enabling unambiguous information interchange – Requirements*, can be found on the IEC website.

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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

IDENTIFICATION SYSTEMS ENABLING UNAMBIGUOUS INFORMATION INTERCHANGE – REQUIREMENTS –

Part 1: Principles and methods

1 Scope

This part of IEC 62507 specifies basic requirements for systems for the identification of objects (such as products, “items”, documents, etc., excluding human individuals). It focuses on assigning identifiers to an object for referencing purposes.

The classification of objects for any and whatever reason and the verification that an object is really the object it claims to be, are excluded.

This standard includes recommendations for the human readable presentation of identifiers and its machine readable representation, to be considered when constructing the identifiers and identification numbers.

The standard includes also requirements for the application of identifiers in a computer sensible form in accordance with such systems, and requirements for their interchange.

The specification of the physical file or transfer format (syntax) for a machine to machine information interchange is not included, nor is the specification and transfer formats for the implementation by a physical medium, e.g. file, bar code, Radio Frequency Identification (RFID), used for information interchange and the identification labelling on an object included.

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 61360-1, *Standard data element types with associated classification scheme for electric components – Part 1: Definitions – Principles and methods*

IEC 81346-2, *Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 2: Classification of objects and codes for classes*

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

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

ISO/IEC 646:1991, *Information technology – ISO 7-bit coded character set for information interchange*

ISO/IEC 6523-1, *Information technology – Structure for the identification of organizations and organization parts –Part 1: Identification of organization identification schemes*

ISO/IEC 15418, *Information technology – Automatic identification and data capture techniques – GS1 Application identifiers and ASC MH 10 data identifiers and maintenance*

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