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Part 2: Types/Models, Lots/Batches, Items and Characteristics

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



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65E/944/CD, 65E/999/CC

IEC SC 65E : DEVICES AND INTEGRATION IN ENTERPRISE SYSTEMS	
SECRETARIAT: United States of America	SECRETARY: Mr Donald (Bob) Lattimer
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: ☐ Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: ☐ EMC ☐ ENVIRONMENT ☐ QUALITY ASSURANCE ☐ SAFETY	
☒ SUBMITTED FOR CENELEC PARALLEL VOTING Attention IEC-CENELEC parallel voting The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

Identification Link - Part 2: Types/Models, Lots/Batches, Items and Characteristics

PROPOSED STABILITY DATE: 2026

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

IDENTIFICATION LINK –

Part 2: TYPES/MODELS, LOTS/BATCHES, ITEMS AND CHARACTERISTICS

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IEC 61406 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
65E/XX/FDIS	65E/XX/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement available

162 at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are
163 described in greater detail at www.iec.ch/publications.

164 A list of all parts in the IEC 61406 series, published under the general title *Identification Link*, can be
165 found on the IEC website.

166 The committee has decided that the contents of this document will remain unchanged until the
167 stability date indicated on the IEC website under webstore.iec.ch in the data related to the
168 specific document. At this date, the document will be

- 169 • reconfirmed,
- 170 • withdrawn,
- 171 • replaced by a revised edition, or
- 172 • amended.

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INTRODUCTION

For the encoded Identification Link (IL) string in IEC 61406-1 basic assumptions are:

- the Identification Link designates and links to exactly one individual physical object;
- the Identification Link does not require any additional syntactical or semantical intelligence to use it.

In practice, these two assumptions do not always apply. IEC 61406-2 closes these gaps by specifying additional requirements for cases where:

- data elements with standardized syntax and semantics are encoded in the Identification Link, which gives further information about the kind of identified object, e.g. product, person, location or document. It can contain additional attributes or classifications;
- for products, the Identification Link may designate and link to the unique information of lots/batches or product codes, and is not limited to uniqueness of individual items.

IDENTIFICATION LINK –

Part 2: TYPES/MODELS, LOTS/BATCHES, ITEMS AND CHARACTERISTICS

1 Scope

IEC 61406-2 complements IEC 61406-1 *Identification Link - Part 1: General requirements* by providing additional requirements for those cases where data elements are encoded within the Identification Link string with standardized syntax and semantics.

In addition, this standard covers cases where the uniqueness relates to product types/models or lots/batches. The default assumption is that the Identification Link identifies unique objects such as unique serialized products, assets, persons or packages, unless otherwise identified.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ANSI MH10.8.2, *Data Identifier*

IEC 60050-351, *International Electrotechnical Vocabulary (IEV) - Part 351: Control technology*

IEC 60417, *Graphical symbols for use on equipment*

IEC 61406-1, *Identification Link - Part 1: General requirements*

ISO/IEC 15418, *Information technology – Automatic identification and data capture techniques – GS1 Application Identifiers and ASC MH10 Data Identifiers and maintenance*

ISO/IEC 19762, *Information technology – Automatic identification and data capture (AIDC) techniques – Harmonized vocabulary*

IETF RFC 3986, *Uniform Resource Identifier (URI): Generic Syntax*

3 Terms, abbreviated terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-351, ISO/IEC 19762 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

data carrier

device or medium used to store data as a relay mechanism in an AIDC system

Note 1 to entry: Bar code, OCR character string and RF tag are examples of data carriers.