

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Identification link –
Part 2: Types/models, lots/batches, items and characteristics**

**Lien d'identification –
Partie 2: Types/modèles, lots/lots unitaires, éléments et caractéristiques**



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IDENTIFICATION LINK –

Part 2: Types/models, lots/batches, items and characteristics

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IEC 61406-2 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/1075/FDIS	65E/1081/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 at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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

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

- reconfirmed,
- withdrawn, or
- revised.

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 Structured Identification Link, which gives further information about the kind of identified object, for example product, person, location or document. It can contain additional data elements or classifications;
- for products, the Structured Identification Link can designate and link to the unique information of lots/batches or product codes, and is not limited to the uniqueness of individual items.

IDENTIFICATION LINK –

Part 2: Types/models, lots/batches, items and characteristics

1 Scope

The part of IEC 61406 complements IEC 61406-1 by providing additional requirements for those cases where data elements are encoded within the Structured Identification Link string with standardized syntax and semantics.

In addition, this document 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.

IEC 60050-351, *International Electrotechnical Vocabulary (IEV) – Part 351: Control technology* (available at www.electropedia.org)

IEC 61406-1:2022, *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 19762:2016, *Information technology – Automatic identification and data capture (AIDC) techniques – Harmonized vocabulary*

ANSI MH10.8.2, *Data Identifier*

IETF RFC 3986:2005, *Uniform Resource Identifier (URI): Generic Syntax*

3 Terms and definitions

For the purposes of this document, the terms, definitions and abbreviations given in IEC 60050-351, ISO/IEC 19762, IEC 61406-1 and the following apply.

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