SVENSK STANDARD

SS-EN IEC 61406-2, utg 1:2025

| Fastställd | Sida | Ansvarig kommitté |
|---|---|---|
| 2025-03-05 | 1 (39) | SEK TK 65 |



# Identifieringslänk (IL) – Del 2: Produkttyper, satser/partier, artiklar och egenskaper

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

Som svensk standard gäller europastandarden EN IEC 61406-2:2024. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 61406-2:2024.

**Nationellt förord**

Europastandarden EN IEC 61406-2:2024

består av:

– **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
– **IEC 61406-2, First edition, 2024 - Identification link – Part 2: Types/models, lots/batches, items and characteristics**

utarbetad inom International Electrotechnical Commission, IEC.

ICS 35.040.50; 35.240.15

Denna standard är fastställd av SEK Svensk Elstandard,
som också kan lämna upplysningar om **sakinnehållet** i standarden.
Postadress: Box 1042, 172 21 Sundbyberg
Telefon: 08 - 444 14 00.
E-post: sek@elstandard.se. Internet: elstandard.se

## Standarder underlättar utvecklingen och höjer elsäkerheten

Det finns många fördelar med att ha gemensamma tekniska regler för bl a mätning, säkerhet och provning och för utförande, skötsel och dokumentation av elprodukter och elanläggningar.

Genom att utforma sådana standarder blir säkerhetsfordringar tydliga och utvecklingskostnaderna rimliga samtidigt som marknadens acceptans för produkten eller tjänsten ökar.

Många standarder inom elområdet beskriver tekniska lösningar och metoder som åstadkommer den elsäkerhet som föreskrivs av svenska myndigheter och av EU.

## SEK är Sveriges röst i standardiseringsarbetet inom elområdet

SEK Svensk Elstandard svarar för standardiseringen inom elområdet i Sverige och samordnar svensk medverkan i internationell och europeisk standardisering. SEK är en ideell organisation med frivilligt deltagande från svenska myndigheter, företag och organisationer som vill medverka till och påverka utformningen av tekniska regler inom elektrotekniken.

SEK samordnar svenska intressenters medverkan i SEKs tekniska kommittéer och stödjer svenska experters medverkan i internationella och europeiska projekt.

## Stora delar av arbetet sker internationellt

Utformningen av standarder sker i allt väsentligt i internationellt och europeiskt samarbete. SEK är svensk nationalkommitté av International Electrotechnical Commission (IEC) och Comité Européen de Normalisation Electrotechnique (CENELEC).

Standardiseringsarbetet inom SEK är organiserat i referensgrupper bestående av ett antal tekniska kommittéer som speglar hur arbetet inom IEC och CENELEC är organiserat.

Arbetet i de tekniska kommittéerna är öppet för alla svenska organisationer, företag, institutioner, myndigheter och statliga verk. Den årliga avgiften för deltagandet och intäkter från försäljning finansierar SEKs standardiseringsverksamhet och medlemsavgift till IEC och CENELEC.

## Var med och påverka!

Den som deltar i SEKs tekniska kommittéarbete har möjlighet att påverka framtida standarder och får tidig tillgång till information och dokumentation om utvecklingen inom sitt teknikområde. Arbetet och kontakterna med kollegor, kunder och konkurrenter kan gynnsamt påverka enskilda företags affärsutveckling och bidrar till deltagarnas egen kompetensutveckling.

Du som vill dra nytta av dessa möjligheter är välkommen att kontakta SEKs kansli för mer information.


## SEK Svensk Elstandard

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN IEC 61406-2

June 2024

ICS 35.040.50; 35.240.15

English Version

# Identification link - Part 2: Types/models, lots/batches, items and characteristics (IEC 61406-2:2024)

Lien d'identification - Partie 2: Types/modèles, lots/lots unitaires, éléments et caractéristiques (IEC 61406-2:2024)

Identifizierungslink - Teil 2: Typen/Modelle, Lose/Chargen, Artikel und Merkmale (IEC 61406-2:2024)



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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**



Ref. No. EN IEC 61406-2:2024 E

# European foreword

The text of document 65E/1075/FDIS, future edition 1 of IEC 61406-2, prepared by SC 65E "Devices and integration in enterprise systems" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61406-2:2024.

The following dates are fixed:

| | | |
|---|---|---|
| • | latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) 2025-03-12 |
| • | latest date by which the national standards conflicting with the document have to be withdrawn | (dow) 2027-06-12 |

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

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

## Endorsement notice

The text of the International Standard IEC 61406-2:2024 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 standard indicated:

| | | |
|---|---|---|
| IEC 62507-1:2010 | NOTE | Approved as EN 62507-1:2011 (not modified) |
| IEC 62569-1:2017 | NOTE | Approved as EN 62569-1:2017 (not modified) |

# Annex ZA
(normative)

## Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

| Publication | Year | Title | EN/HD | Year |
|---|---|---|---|---|
| IEC 60050-351 | - | International Electrotechnical Vocabulary - Part 351: Control technology | - | - |
| IEC 61406-1 | 2022 | Identification Link – Part 1: General requirements | EN IEC 61406-1 | 2022 |
| 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 MH 10.8.2 | - | Data Identifier and Application Identifier Standard | - | - |
| IETF RFC 3986 | 2005 | Uniform Resource Identifier (URI): Generic Syntax | - | - |

IEC 61406-2

Edition 1.0 2024-05

# 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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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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# IDENTIFICATION LINK –

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

## FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at https://patents.iec.ch. IEC shall not be held responsible for identifying any or all such patent rights.

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*