

SLOVENSKI STANDARD

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SIST EN IEC 61158-6-4:2019

Industrijska komunikacijska omrežja - Specifikacije za procesna vodila - 6-4. del: Specifikacija protokola na aplikacijski ravni - Elementi tipa 4 (IEC 61158-6-4:2023)

Industrial communication networks - Fieldbus specifications - Part 6-4: Application layer protocol specification - Type 4 elements (IEC 61158-6-4:2023)

Industrielle Kommunikationsnetze - Feldbusse - Teil 6-4: Protokollspezifikation des Application Layer (Anwendungsschicht) - Typ 4-Elemente (IEC 61158-6-4:2023)

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 6-4: Spécification du protocole de la couche liaison de données - Eléments de type 4 (IEC 61158-6-4:2023)

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25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.100.70	Uporabniški sloj	Application layer
35.110	Omreževanje	Networking

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NORME EUROPÉENNE
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Industrial communication networks - Fieldbus specifications -
Part 6-4: Application layer protocol specification - Type 4
elements
(IEC 61158-6-4:2023)

Réseaux de communication industriels - Spécifications des
bus de terrain - Partie 6-4: Spécification du protocole de la
couche liaison de données - Eléments de type 4
(IEC 61158-6-4:2023)

Industrielle Kommunikationsnetze - Feldbusse - Teil 6-4:
Protokollspezifikation des Application Layer
(Anwendungsschicht) - Typ 4-Elemente
(IEC 61158-6-4:2023)

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European Committee for Electrotechnical Standardization
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EN IEC 61158-6-4:2023 (E)**European foreword**

The text of document 65C/1204/FDIS, future edition 4 of IEC 61158-6-4, prepared by SC 65C "Industrial networks" 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 61158-6-4:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-01-28 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-04-28 document have to be withdrawn

This document supersedes EN IEC 61158-6-4:2019 and all of its amendments and corrigenda (if any).

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Endorsement notice

The text of the International Standard IEC 61158-6-4:2023 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 61158-1 NOTE Approved as EN IEC 61158-1

IEC 61784-1 (series) NOTE Approved as EN IEC 61784-1 (series)

IEC 61784-2 (series) NOTE Approved as EN IEC 61784-2 (series)

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61158-3-4	2023	Industrial communication networks - Fieldbus specifications - Part 3-4: Data-link layer service definition - Type 4 elements	-	-
IEC 61158-4-4	2023	Industrial communication networks - Fieldbus specifications - Part 4-4: Data-link layer protocol specification - Type 4 elements	-	-
IEC 61158-5-4	2023	Industrial communication networks - Fieldbus specifications - Part 5-4: Application layer service definition - Type 4 elements	-	-
IEC 61158-6-1	-	Industrial communication networks - Fieldbus specifications - Part 6-1: Application layer protocol specification - Type 1 elements	-	-
ISO/IEC 7498-1	-	Information technology - Open Systems Interconnection - Basic reference model: The basic model	-	-
ISO/IEC 8822	-	Information technology - Open Systems Interconnection - Presentation service definition	-	-
ISO/IEC 8824-1	-	Information technology - Abstract Syntax Notation One (ASN.1) - Part 1: Specification of basic notation	-	-
ISO/IEC 9545	-	Information technology - Open Systems Interconnection - Application layer structure	-	-
ISO/IEC 9797-1	-	Information technology - Security techniques - Message Authentication Codes (MACs) - Part 1: Mechanisms using a block cipher	-	-
ISO/IEC 10731	-	Information technology - Open Systems Interconnection - Basic Reference Model - Conventions for the definition of OSI services	-	-



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INTERNATIONAL STANDARD

**Industrial communication networks – Fieldbus specifications –
Part 6-4: Application layer protocol specification – Type 4 elements**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL COMMUNICATION NETWORKS –
FIELDBUS SPECIFICATIONS –****Part 6-4: Application layer protocol specification –
Type 4 elements**

FOREWORD

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NOTE Combinations of protocol types are specified in the IEC 61784-1 series and the IEC 61784-2 series.

IEC 61158-6-4 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2019. This edition constitutes a technical revision.

This edition includes the following significant technical change with respect to the previous edition:

- a) Use of extended data size in an APDU body. This extension is restricted to nodes operating on a P-NET IP network.

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

Draft	Report on voting
65C/1204/FDIS	65C/1245/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 the parts of the IEC 61158 series, under the general title *Industrial communication networks – Fieldbus specifications*, can be found on the IEC web site.

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,
- replaced by a revised edition, or
- amended.

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