SLOVENSKI STANDARD
SIST EN 61158-4-2:2008

01-junij-2008

Nadomešča:
SIST EN 61158-4:2004

Industrijska komunikacijska omrežja - Specifikacije za procesna vodila - 4-2. del: Specifikacija protokola na nivoju podatkovnih povezav - Elementi tipa 2 (IEC 61158 -4-2:2007)

Industrial communication networks - Fieldbus specifications -- Part 4-2: Data-link layer protocol specification - Type 2 elements

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Industrielle Kommunikationsnetze - Feldbusse - Teil 4-2: Protokollspezifikation des Data Link Layer (Sicherungsschicht) - Typ 2-Elemente

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Réseaux de communication industriels - Spécifications des bus de terrain - Partie 4-2: Spécification des protocoles des couches de liaison de données - Eléments de type 2

Ta slovenski standard je istoveten z: **EN 61158-4-2:2008**

ICS:

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.100.20	Podatkovni povezovalni sloj	Data link layer
35.110	Omreževanje	Networking

SIST EN 61158-4-2:2008 **en,de**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61158-4-2

February 2008

ICS 35.100.20; 25.040.40

Partially supersedes EN 61158-4:2004

English version

Industrial communication networks - Fieldbus specifications - Part 4-2: Data-link layer protocol specification - Type 2 elements

(IEC 61158-4-2:2007)

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 4-2: Spécification des protocoles des couches de liaison de données - Eléments de type 2 (CEI 61158-4-2:2007)

Industrielle Kommunikationsnetze - Feldbusse - Teil 4-2: Protokollspezifikation des Data Link Layer (Sicherungsschicht) - Typ 2-Elemente (IEC 61158-4-2:2007)

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of document 65C/474/FDIS, future edition 1 of IEC 61158-4-2, 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 was approved by CENELEC as EN 61158-4-2 on 2008-02-01.

This and the other parts of the EN 61158-4 series supersede EN 61158-4:2004.

With respect to EN 61158-4:2004 the following changes were made:

– deletion of Type 6 fieldbus, and the placeholder for a Type 5 fieldbus data-link layer, for lack of market relevance;

– addition of new fieldbus types;

– partition into multiple parts numbered 4-1, 4-2, …, 4-19.

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)	2008-11-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2011-02-01

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NOTE Use of some of the associated protocol types is restricted by their intellectual-property-right holders. In all cases, the commitment to limited release of intellectual-property-rights made by the holders of those rights permits a particular data-link layer protocol type to be used with physical layer and application layer protocols in type combinations as specified explicitly in the EN 61784 series. Use of the various protocol types in other combinations may require permission from their respective intellectual-property-right holders.

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US 5,400,331	[RA]	Communication network interface with screeners for incoming messages
US 5,471,461	[RA]	Digital communication network with a moderator station election process
US 5,491,531	[RA]	Media access controller with a shared class message delivery capability
US 5,493,571	[RA]	Apparatus and method for digital communications with improved delimiter detection
US 5,537,549	[RA]	Communication network with time coordinated station activity by time slot and periodic interval number
US 5,553,095	[RA]	Method and apparatus for exchanging different classes of data during different time Intervals

IEC and CENELEC take no position concerning the evidence, validity and scope of these patent rights.

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[RA]: Rockwell Automation, Inc.
1201 S. Second Street
Milwaukee, WI 53204
USA
Attention: Intellectual Property Dept.

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Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 61158-4-2:2007 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 61784-1	NOTE	Harmonized as EN 61784-1:2008 (not modified).
IEC 61784-2	NOTE	Harmonized as EN 61784-2:2008 (not modified).
ISO 9314-2	NOTE	Harmonized as EN 29314-2:1993 (not modified).

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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.

Publication	Year	Title	EN/HD	Year
IEC 61131-3	-[1)]	Programmable controllers - Part 3: Programming languages	EN 61131-3	2003[2)]
IEC 61158-2	2007	Industrial communication networks - Fieldbus specifications - Part 2: Physical layer specification and service definition	EN 61158-2	2008
IEC 61158-3-2	-[1)]	Industrial communication networks - Fieldbus specifications - Part 3-2: Data-link layer service definition - Type 2 elements	EN 61158-3-2	2008[2)]
IEC 61158-5-2	-[1)]	Industrial communication networks - Fieldbus specifications - Part 5-2: Application layer service definition - Type 2 elements	EN 61158-5-2	2008[2)]
IEC 61158-6-2	-[1)]	Industrial communication networks - Fieldbus specifications - Part 6-2: Application layer protocol specification - Type 2 elements	EN 61158-6-2	2008[2)]
IEC 61784-3-2	-[1)]	Industrial communication networks - Profiles - Part 3-2: Functional safety fieldbuses - Additional specifications for CPF 2	EN 61784-3-2	2008[2)]
IEC 62026-3	-[1)]	Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 3: DeviceNet	-	-
ISO/IEC 3309	-[1)]	Information technology - Telecommunications and information exchange between systems - High-level data link control (HDLC) procedures - Frame structure	-	-
ISO/IEC 7498-1	-[1)]	Information technology - Open Systems Interconnection - Basic Reference Model: The Basic Model	EN ISO/IEC 7498-1	1995[2)]
ISO/IEC 7498-3	-[1)]	Information technology - Open Systems Interconnection - Basic Reference Model: Naming and addressing	-	-

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[1)] Undated reference.

[2)] Valid edition at date of issue.

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Publication	Year	Title	EN/HD	Year
ISO/IEC 8802-3	-[1)]	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications	-	-
ISO/IEC 10731	-[1)]	Information technology - Open Systems Interconnection - Basic reference model - Conventions for the definition of OSI services	-	-
ISO 11898	-[1)]	Road vehicles - Interchange of digital information - Controller area network (CAN) for high-speed communication	-	-

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INDUSTRIAL COMMUNICATION NETWORKS – FIELDBUS SPECIFICATIONS –

Part 4-2: Data-link layer protocol specification – Type 2 elements

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US 5,553,095	[RA]	Method and apparatus for exchanging different classes of data during different time Intervals

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