

SLOVENSKI STANDARD

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**Industrijska komunikacijska omrežja - Specifikacije za procesna vodila - 4-2. del:
Specifikacija protokola na ravni podatkovnih povezav - Elementi tipa 2 (IEC 61158-
4-2:2014)**

Industrial communication networks - Fieldbus specifications -Part 4-2: Data-link layer
protocol specification - Type 2 elements (IEC 61158-4-2:2014)

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Industrielle Kommunikationsnetze - Feldbusse - Teil 4-2: Protokollspezifikation des Data
Link Layer (Sicherheitsschicht) - Typ 2-Elemente (IEC 61158-4-2:2014)

SIST EN 61158-4-2:2015

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 4-2:
Spécification du protocole de la couche liaison de données - Eléments de type 2 (CEI
61158-4-2:2014)

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35.110	Omreževanje	Networking

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Réseaux de communication industriels - Spécifications des
bus de terrain - Partie 4-2: Spécification du protocole de la
couche liaison de données - Eléments de type 2
(CEI 61158-4-2:2014)

Industrielle Kommunikationsnetze - Feldbusse - Teil 4-2:
Protokollspezifikation des Data Link Layer
(Sicherheitsschicht) - Typ 2-Elemente
(IEC 61158-4-2:2014)

This European Standard was approved by CENELEC on 2014-09-19. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 65C/762/FDIS, future edition 3 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 approved by CENELEC as EN 61158-4-2:2014.

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) 2015-06-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-09-19

This document supersedes EN 61158-4-2:2012.

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Endorsement notice

The text of the International Standard IEC 61158-4-2:2014 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 61158-1:2014	NOTE	Harmonised as EN 61158-1:2014
IEC 61158-2:2014	NOTE	Harmonised as EN 61158-2:2014
IEC 61784-1:2014	NOTE	Harmonised as EN 61784-1:2014
IEC 61784-2:2014	NOTE	Harmonised as EN 61784-2:2014

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61131-3	-	Programmable controllers - Part 3: Programming languages	EN 61131-3	-
IEC 61158-3-2	2014	Industrial communication networks - Fieldbus specifications - Part 3-2: Data-link layer service definition - Type 2 elements	EN 61158-3-2	2014
IEC 61158-5-2	2014	Industrial communication networks - Fieldbus specifications - Part 5-2: Application layer service definition - Type 2 elements	EN 61158-5-2	2014
IEC 61158-6-2	2014	Industrial communication networks - Fieldbus specifications - Part 6-2: Application layer protocol specification - Type 2 elements	EN 61158-6-2	2014
IEC 61588	2009	Precision clock synchronization protocol for - networked measurement and control systems	-	-
IEC 61784-3-2	-	Industrial communication networks - Profiles Part 3-2: Functional safety fieldbuses - Additional specifications for CPF 2	EN 61784-3-2	-
IEC 62026-3	2008	Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) Part 3: DeviceNet	EN 62026-3	2009
ISO 11898	1993 ¹	Road vehicles - Interchange of digital information - Controller area network (CAN) for high-speed communication	-	-
ISO/IEC 3309	-	Information technology - Telecommunications and information exchange between systems - High-level data link control (HDLC) procedures - Frame structure	-	-
ISO/IEC 7498-1	-	Information technology - Open Systems Interconnection - Basic reference model: The basic model	-	-

¹ Superseded by ISO 11898-1:2003 and ISO 11898-8:2003

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO/IEC 7498-3	-	Information technology - Open Systems Interconnection - Basic reference model: Naming and addressing	-	-
ISO/IEC 8802-3	-	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	-	-
IEEE 802.1D	2004	IEEE Standard for local and metropolitan area networks - Media Access Control (MAC) Bridges	-	-
IEEE 802.1Q	2005 ²⁾	IEEE Standard for Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks	-	-
IEEE 802.3	2008	IEEE Standard for 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	-	-

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²⁾ Superseded by IEEE 802.1Q:2011



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Partie 4-2: Spécification du protocole de la couche liaison de données – Eléments
de type 2
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