

**SLOVENSKI STANDARD
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**Industrijska komunikacijska omrežja - Specifikacije za procesna vodila - 5-10. del:
Definicija opravil na aplikacijski ravni - Elementi tipa 10 (IEC 61158-5-10:2019)**

Industrial communication networks - Fieldbus specifications - Part 5-10: Application layer service definition - Type 10 elements (IEC 61158-5-10:2019)

Industrielle Kommunikationsnetze - Feldbusse - Teil 5-10: Dienstfestlegungen des Application Layer (Anwendungsschicht) - Typ 10-Elemente (IEC 61158-5-10:2019)
(standards.iteh.ai)Réseaux de communication industriels - Spécifications des bus de terrain - Partie 5-10 :
Définition des services de la couche application - Éléments de type 10 (IEC 61158-5-10:2019)
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35.110	Omreževanje	Networking

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EUROPEAN STANDARD

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**Industrial communication networks - Fieldbus specifications -
Part 5-10: Application layer service definition - Type 10 elements
(IEC 61158-5-10:2019)**

Réseaux de communication industriels - Spécifications des
bus de terrain - Partie 5-10 : Définition des services de la
couche application - Éléments de type 10
(IEC 61158-5-10:2019)

Industrielle Kommunikationsnetze - Feldbusse - Teil 5-10:
Dienstfestlegungen des Application Layer
(Anwendungsschicht) - Typ 10-Elemente
(IEC 61158-5-10:2019)

This European Standard was approved by CENELEC on 2019-05-15. 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.

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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

EN IEC 61158-5-10:2019 (E)**European foreword**

The text of document 65C/947/FDIS, future edition 4 of IEC 61158-5-10, 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 61158-5-10:2019.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-02-15
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-05-15

This document supersedes EN 61158-5-10:2014.

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The text of the International Standard IEC 61158-5-10:2019 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 60870-5-4	NOTE	Harmonized as EN 60870-5-4
IEC 61131-1	NOTE	Harmonized as EN 61131-1
IEC 61131-3	NOTE	Harmonized as EN 61131-3
IEC 61375-2-1	NOTE	Harmonized as EN 61375-2-1
IEC 61784-1	NOTE	Harmonized as EN 61784-1
IEC 61784-2	NOTE	Harmonized as EN 61784-2

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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61158-1	2019	Industrial communication networks - Fieldbus specifications - Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series	- EN IEC 61158-1	2019
IEC 61158-5-3	-	Industrial communication networks - Fieldbus specifications - Part 5-3: Application layer service definition - Type 3 elements	- EN 61158-5-3	-
IEC 61158-6-3	-	Industrial communication networks - Fieldbus specifications - Part 6-3: Application layer protocol specification - Type 3 elements	- EN 61158-6-3	-
IEC 61158-6-10	2019	Industrial communication networks - Fieldbus specifications - Part 6-10: Application layer protocol specification - Type 10 elements	- EN 61158-6-10	2019
IEC 61800-7-203	2015	Adjustable speed electrical power drive systems - Part 7-203: Generic interface and use of profiles for power drive systems - Profile type 3 specification	EN 61800-7-203	2016
IEC 62439-2	-	Industrial communication networks – High availability automation networks – Part 2: Media Redundancy Protocol (MRP)	EN 62439-2	-
ISO/IEC 646	-	Information technology; ISO 7-bit coded character set for information interchange	-	-
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	-	-

EN IEC 61158-5-10:2019 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO/IEC 8824-1	-	Information technology - Abstract Syntax - Notation One (ASN.1): Specification of basic notation	-	-
ISO/IEC 9545	-	Information technology - Open Systems - Interconnection - Application layer structure	-	-
ISO/IEC 9834-8	-	Information technology - Procedures for the operation of object identifier registration authorities - Part 8: Generation of universally unique identifiers (UUIDs) and their use in object identifiers	-	-
ISO/IEC 10646	-	Information technology - Universal Coded - Character Set (UCS)	-	-
ISO/IEC 10731	-	Information technology - Open Systems - Interconnection - Basic Reference Model - Conventions for the definition of OSI services	-	-
ISO/IEC 15802-1	-	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Common specifications - Part 1: Medium Access Control (MAC) service definition	-	-
ISO/IEC/IEEE 60559	2011	Information technology - Microprocessor - Systems - Floating-Point arithmetic	-	-
ISO 8601	-	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-
IEEE Std 802	-	IEEE Standard for Local and metropolitan area networks: Overview and Architecture	-	-
IEEE Std 802.1	-	IEEE Standard for Local and metropolitan area networks: Station and Media Access Control Connectivity Discovery	-	-
IEEE Std 802.1AB	-	IEEE Standard for Local and metropolitan area networks: Station and Media Access Control Connectivity Discovery	-	-
IEEE Std 802.1AS	-	IEEE Standard for Information technology - Telecommunications and information exchange between systems - IEEE standard for Local and metropolitan area networks - Timing and Synchronization for Time-Sensitive Applications in Bridged Local Area Networks	-	-
IEEE Std 802.1Q	-	IEEE Standard for Local and metropolitan area networks - Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks	-	-
IEEE Std 802.3	-	IEEE Standard for Ethernet	-	-
IETF RFC 768	-	User Datagram Protocol	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IETF RFC 791	-	Internet Protocol	-	-
IETF RFC 792	-	Internet Control Message Protocol	-	-
IETF RFC 826	-	Ethernet Address Resolution Protocol: Or - Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on Ethernet Hardware	-	-
IETF RFC 894	-	Standard for the Transmission of IP - Datagrams over Ethernet Networks	-	-
IETF RFC 1034	-	Domain names - concepts and facilities	-	-
IETF RFC 1112	-	Host Extensions for IP Multicasting	-	-
IETF RFC 1157	-	Simple Network Management Protocol - (SNMP)	-	-
IETF RFC 1213	-	Management Information Base for Network - Management of TCP/IP-based Internets: MIB-II	-	-
IETF RFC 2131	-	Dynamic Host Configuration Protocol	-	-
IETF RFC 2132	-	DHCP Options and BOOTP Vendor - Extensions	-	-
IETF RFC 2365	-	Administratively Scoped IP Multicast	-	-
IETF RFC 2674	-	Definitions of Managed Objects for Bridges - with Traffic Classes, Multicast Filtering and Virtual LAN Extensions	-	-
IETF RFC 2737	-	Entity MIB (Version 2)	-	-
IETF RFC 2863	-	The Interfaces Group MIB	-	-
IETF RFC 3418	-	Management Information Base (MIB) for - the Simple Network Management Protocol (SNMP)	-	-
IETF RFC 3490	-	Internationalizing Domain Names in - Applications (IDNA)	-	-
IETF RFC 3621	-	Power Ethernet MIB	-	-
IETF RFC 4836	-	Definitions of Managed Objects for IEEE - 802.3 Medium Attachment Units (MAUs)	-	-
IETF RFC 5905	-	Network Time Protocol Version 4: Protocol - and Algorithms Specification	-	-
IETF RFC 6890	-	Special-Purpose IP Address Registries	-	-
The Open Group -- Publication C706	--	Technical standard DCE1.1: Remote - Procedure Call	-	-

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