

SLOVENSKI STANDARD
SIST EN 61158-6-10:2012**01-september-2012****Nadomešča:****SIST EN 61158-6-10:2008**

**Industrijska komunikacijska omrežja - Specifikacije za procesno vodilo - 6-10. del:
Specifikacija protokola na aplikacijskem nivoju - Elementi tipa 10 (IEC 61158-6-
10:2010)**Industrial communication networks - Fieldbus specifications - Part 6-10: Application layer
protocol specification - Type 10 elements (IEC 61158-6-10:2010)**iTeh STANDARD PREVIEW**Industrielle Kommunikationsnetze - Feldbusse - Teil 6-10: Protokollspezifikation des
Application Layer (Anwendungsschicht) - Typ 10-Elemente (IEC 61158-6-10:2010)[SIST EN 61158-6-10:2012](#)Réseaux de communication industriels - Spécifications des bus de terrain - Partie 6-10:
Spécification des protocoles des couches d'application - Eléments de type 10 (CEI
61158-6-10:2010)**Ta slovenski standard je istoveten z: EN 61158-6-10:2012****ICS:**

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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English version

**Industrial communication networks -
Fieldbus specifications -
Part 6-10: Application layer protocol specification -
Type 10 elements
(IEC 61158-6-10:2010)**

Réseaux de communication industriels -
Spécifications des bus de terrain -
Partie 6-10: Spécification des protocoles
des couches d'application -
Éléments de type 10
(CEI 61158-6-10:2010)

Industrielle Kommunikationsnetze -
Feldbusse -
Teil 6-10: Protokollspezifikation des
Application Layer (Anwendungsschicht) -
Typ 10-Elemente
(IEC 61158-6-10:2010)

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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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 65C/607/FDIS, future edition 2 of IEC 61158-6-10, 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 61158-6-10:2012.

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) 2012-12-28
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-03-28

This document supersedes EN 61158-6-10:2008.

EN 61158-6-10:2012 includes the following significant technical changes with respect to EN 61158-6-10:2008:

- corrections;
- improvements;
- optimization of the synchronization;
- optimization of the startup time from power down.

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

Endorsement notice

The text of the International Standard IEC 61158-6-10:2010 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/TR 61158-1 | NOTE Harmonized as CLC/TR 61158-1. |
| IEC 61158-6-3:2010 | NOTE Harmonized as EN 61158-6-3:2012. |

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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60559	-	Binary floating-point arithmetic for microprocessor systems	HD 592 S1	-
IEC 61158-5-10	2010	Industrial communication networks - Fieldbus specifications - Part 5-10: Application layer service definition - Type 10 elements	EN 61158-5-10	2012
IEC 61784-3-3	-	Industrial communication networks - Profiles - Part 3-3: Functional safety fieldbuses - Additional specifications for CPF 3	EN 61784-3-3	-
ISO/IEC 646	1991	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	-	-
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 10731	-	Information technology - Open Systems Interconnection - Basic reference model - Conventions for the definition of OSI services	-	-
ISO 8601	-	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-
IEEE 802.1D	2004	IEEE Standard for Local and Metropolitan Area Networks - Media Access Control (MAC) Bridges	-	-
IEEE 802	2001	IEEE standard for local and metropolitan area networks: overview and architecture	-	-
IEEE 802.1AB	2005	IEEE Standard for Local and metropolitan area networks Station and Media Access Control Connectivity Discovery	-	-
IEEE 802.1Q	2005	IEEE Standard for Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEEE 802.3	2005	IEEE Standard for Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications	-	-
IEEE 802.15.1	2005	IEEE Standard for Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements. - Part 15.1: Wireless medium access control (MAC) and physical layer (PHY) specifications for wireless personal area networks (WPANs)	-	-
IEEE 802.11	1999	IEEE Standard for Information technology- Telecommunications and information exchange between systems-Local and metropolitan area networks-Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications	-	-
IETF RFC 768	-	User Datagram Protocol	-	-
IETF RFC 791	-	Internet Protocol - DARPA Internet Program Protocol Specification	-	-
IETF RFC 826	-	Ethernet Address Resolution Protocol	-	-
IETF RFC 3621	-	Power Ethernet MIB	-	-
IETF RFC 792	-	Internet Control Message Protocol	-	-
IETF RFC 1112	-	Host Extensions for IP Multicasting	-	-
IETF RFC 3490	-	Internationalizing Domain Names in Applications (IDNA)	-	-
IETF RFC 1034	-	Domain names - concepts and facilities	-	-
IETF RFC 2131	-	Dynamic Host Configuration Protocol	-	-
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 2365	-	Administratively Scoped IP Multicast	-	-
IETF RFC 3330	-	Special-Use IPv4 Addresses	-	-
IETF RFC 4836	-	Definitions of managed objects for IEEE 802.3-medium attachment units (MAUs)	-	-
IETF RFC 1518	-	An architecture for IP address allocation with CIDR	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IETF RFC 1519	-	Classless Inter-Domain Routing (CIDR): an address assignment and aggregation strategy	-	-
IETF RFC 2474	-	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	-	-
IETF RFC 3418	-	Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)	-	-
IETF RFC 2132	-	DHCP Options and BOOTP Vendor Extensions	-	-
The Open Group C706	-	CAE Specification DCE11: Remote Procedure-Call	-	-

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INTERNATIONAL STANDARD



**Industrial communication networks – Fieldbus specifications –
Part 6-10: Application layer protocol specification – Type 10 elements**

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