
Industrijska komunikacijska omrežja - Profili - 2. del: Dodatni profili procesnih vodil za omrežja, ki delujejo v realnem času po ISO/IEC 8802-3 (IEC 61784-2:2007)

Industrial communication networks - Profiles -- Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC 8802-3

Industrielle Kommunikationsnetze - Profile - Teil 2: Zusätzliche Feldbusprofile für Echtzeitnetzwerke basierend auf ISO/IEC 8802-3

Réseaux de communication industriels - Profils - Partie 2: Profils supplémentaires des bus de terrain pour les réseaux temps réel basés sur l'ISO/CEI 8802-3

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Profiles -
Part 2: Additional fieldbus profiles for real-time networks
based on ISO/IEC 8802-3
(IEC 61784-2:2007)**

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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

Foreword

The text of document 65C/469/FDIS, future edition 1 of IEC 61784-2, 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 61784-2 on 2008-05-01.

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) 2009-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-05-01

NOTE Use of some of the associated protocol Types in the EN 61158 family 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.

The International Electrotechnical Commission (IEC) and CENELEC draw attention to the fact that it is claimed that compliance with this document may involve the use of patents.

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

Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 61784-2:2007 was approved by CENELEC as a European Standard without any modification.

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61158	Series	Industrial communication networks - Fieldbus specifications	EN 61158	Series
IEC 61588	2004	Precision clock synchronization protocol for networked measurement and control systems	-	-
IEC 61784-1	- ¹⁾	Industrial communication networks - Profiles - Part 1: Fieldbus profiles	EN 61784-1	2008 ²⁾
IEC 61784-5-2	- ¹⁾	Industrial communication networks - Profiles - Part 5-2: Installation of fieldbuses - Installation profiles for CPF 2	EN 61784-5-2	2008 ²⁾
IEC 61784-5-3	- ¹⁾	Industrial communication networks - Profiles - Part 5-3: Installation of fieldbuses - Installation profiles for CPF 3	EN 61784-5-3	2008 ²⁾
IEC 61784-5-6	- ¹⁾	Industrial communication networks - Profiles - Part 5-6: Installation of fieldbuses - Installation profiles for CPF 6	EN 61784-5-6	2008 ²⁾
IEC 61918 (mod)	- ¹⁾	Industrial communication networks - Installation of communication networks in industrial premises	EN 61918	2008 ²⁾
ISO/IEC 8802-2	- ¹⁾	Information technology - Telecommunications - and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 2: Logical link control	-	-
ISO/IEC 8802-3	2000	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	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO/IEC 8802-11	- ¹⁾	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	-	-
ISO 15745-3	- ¹⁾	Industrial automation systems and integration - Open systems application integration framework - Part 3: Reference description for IEC 61158 based control systems	-	-
ISO 15745-4 + A1	2003 2006	Industrial automation systems and integration - Open systems application integration framework - Part 4: Reference description for Ethernet-based control systems	-	-
IEEE 802.1AB	- ¹⁾	IEEE Standard for Local and metropolitan area networks Station and Media Access Control Connectivity Discovery	-	-
IEEE 802.1D	- ¹⁾	IEEE Standard for Local and Metropolitan Area Networks - Media Access Control (MAC) Bridges	-	-
IEEE 802.1Q	- ¹⁾	IEEE Standard for Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks	-	-
IEEE 802.3	2002	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	-	-
IEEE Std 802.3ab	- ¹⁾	Information technology - Telecommunications - and information exchange between systems - Local and metropolitan area networks - Specific requirements - Supplement to Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications - Physical layer parameters and specifications for 1000 Mb/s operation over 4-pair of category 5 balanced copper cabling, type 1000BASE-T	-	-
IEEE Std 802.11g	- ¹⁾	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 – Amendment 4: Further higher data rate extension in the 2,4 GHz band	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEEE Std 802.11h	- ¹⁾	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 – Amendment 5: Spectrum and transmit power management extensions in the 5 GHz band in Europe	-	-
IEEE Std 802.11e	- ¹⁾	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 – Amendment 8: Medium Access Control (MAC) quality of service enhancements	-	-
IEEE Std 802.11i	- ¹⁾	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 – Amendment 6: Medium Access Control (MAC) security enhancements	-	-
IEEE Std 802.15.1	- ¹⁾	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)	-	-
IETF RFC 768	- ¹⁾	User Datagram Protocol	-	-
IETF RFC 791	- ¹⁾	Internet Protocol	-	-
IETF RFC 792	- ¹⁾	Internet Control Message Protocol	-	-
IETF RFC 793	- ¹⁾	Transmission Control Protocol - DARPA Internet Program Protocol Specification	-	-
IETF RFC 826	- ¹⁾	Ethernet Address Resolution Protocol	-	-
IETF RFC 894	- ¹⁾	Standard for the Transmission of IP Datagrams over Ethernet Networks	-	-
IETF RFC 1112	- ¹⁾	Host Extensions for IP Multicasting	-	-
IETF RFC 1122	- ¹⁾	Requirements for Internet Hosts - Communication Layers	-	-
IETF RFC 1123	- ¹⁾	Requirements for Internet Hosts - Application and Support	-	-
IETF RFC 1127	- ¹⁾	A Perspective on the Host Requirements RFCs	-	-

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IETF RFC 1213	- ¹⁾	Management Information Base for Network Management of TCP/IP-based Internets: MIB-II	-	-
IETF RFC 1305	- ¹⁾	Network Time Protocol, Version 3 - Specification and Implementation	-	-
IETF RFC 2131	- ¹⁾	Dynamic Host Configuration Protocol	-	-
IETF RFC 2236	- ¹⁾	Internet Group Management Protocol	-	-
IETF RFC 2328	- ¹⁾	OSPF Version 2	-	-
IETF RFC 2544	- ¹⁾	Benchmarking Methodology for Network Interconnect Devices	-	-
IETF RFC 2988	- ¹⁾	Computing TCP's Retransmission Timer	-	-
The Open Group C706	- ¹⁾	CAE Specification DCE11: Remote Procedure Call	-	-

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