SLOVENSKI STANDARD
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Industrijska komunikacijska omrežja - Specifikacije za procesno vodilo - 6-14. del: Specifikacija protokola na aplikacijskem nivoju - Elementi tipa 14 (IEC 61158-6-14:2007)

Industrial communication networks - Fieldbus specifications - Part 6-14: Application layer protocol specification - Type 14 elements

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Industrielle Kommunikationsnetze - Feldbusse - Teil 6-14: Protokollspezifikation des Application Layer (Anwendungsschicht) - Typ 14-Elemente

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Réseaux de communication industriels - Spécifications des bus de terrain - Partie 6-14: Spécification des services des couches d'application - Eléments de type 14

Ta slovenski standard je istoveten z: **EN 61158-6-14:2008**

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35.100.70	Uporabniški sloj	Application layer
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2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EN 61158-6-14

March 2008

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Partially supersedes EN 61158-6:2004

English version

Industrial communication networks - Fieldbus specifications - Part 6-14: Application layer protocol specification - Type 14 elements

(IEC 61158-6-14:2007)

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 6-14: Spécification des services des couches d'application - Eléments de type 14 (CEI 61158-6-14:2007)

Industrielle Kommunikationsnetze - Feldbusse - Teil 6-14: Protokollspezifikation des Application Layer (Anwendungsschicht) - Typ 14-Elemente (IEC 61158-6-14:2007)

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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/476/FDIS, future edition 1 of IEC 61158-6-14, 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 61158-6-14 on 2008-02-01.

This and the other parts of the EN 61158-6 series supersede EN 61158-6:2004.

With respect to EN 61158-6:2004 the following changes were made:

– deletion of Type 6 fieldbus for lack of market relevance;

– addition of new fieldbus types;

– partition into multiple parts numbered 6-2, 6-3, …6-20.

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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Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 61158-6-14:2007 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 61784-2	NOTE	Harmonized as EN 61784-2:2008 (not modified).
ISO/IEC 8877	NOTE	Harmonized as EN 28877:1993 (not modified).
ISO 8601	NOTE	Harmonized as EN 28601:1992 (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 60559	- [1]	Binary floating-point arithmetic for microprocessor systems	HD 592 S1	1991 [2]
IEC 61158-3-14	- [1]	Industrial communication networks - Fieldbus specifications - Part 3-14: Data-link layer service definition - Type 14 elements	EN 61158-3-14	2008 [2]
IEC 61158-4-14	- [1]	Industrial communication networks - Fieldbus specifications - Part 4-14: Data-link layer protocol specification - Type 14 elements	EN 61158-4-14	2008 [2]
IEC 61158-5-14	- [1]	Industrial communication networks - Fieldbus specifications - Part 5-14 Application layer service definition - Type 14 elements	EN 61158-5-14	2008 [2]
ISO/IEC 7498-1	- [1]	Information technology - Open Systems Interconnection - Basic Reference Model	EN ISO/IEC 7498-1	1995 [2]
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 8822	- [1]	Information technology - Open Systems Interconnection - Presentation service definition	-	-
ISO/IEC 8824-2	- [1]	Information technology - Abstract Syntax Notation One (ASN.1): Information object specification	-	-
ISO/IEC 9545	- [1]	Information technology - Open Systems Interconnection - Application Layer structure	-	-

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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 10731	- [1)]	Information technology - Open Systems Interconnection - Basic reference model - Conventions for the definition of OSI services	-	-

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INDUSTRIAL COMMUNICATION NETWORKS – FIELDBUS SPECIFICATIONS –

Part 6-14: Application layer protocol specification – Type 14 elements

FOREWORD

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International Standard IEC 61158-6-14 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation.

This first edition and its companion parts of the IEC 61158-6 subclauses cancel and replace IEC 61158-4:2003. This edition of this part constitutes a technical addition. This part and its Type 14 companion parts also cancel and replace IEC/PAS 62409, published in 2005.

This edition of IEC 61158-6 includes the following significant changes from the previous edition:

a) deletion of the former Type 6 fieldbus for lack of market relevance;
b) addition of new types of fieldbuses;

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c) partition of part 6 of the third edition into multiple parts numbered -6-2, -6-3, …

The text of this standard is based on the following documents:

FDIS	Report on voting
65C/476/FDIS	65C/487/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under http://webstore.iec.ch in the data related to the specific publication. At this date, the publication will be:

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

NOTE The revision of this standard will be synchronized with the other parts of the IEC 61158 series.

The list of all the parts of the IEC 61158 series, under the general title *Industrial communication networks – Fieldbus specifications*, can be found on the IEC web site.

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INTRODUCTION

This part of IEC 61158 is one of a series produced to facilitate the interconnection of automation system components. It is related to other standards in the set as defined by the "three-layer" fieldbus reference model described in IEC/TR 61158-1.

The application protocol provides the application service by making use of the services available from the data-link or other immediately lower layer. The primary aim of this standard is to provide a set of rules for communication expressed in terms of the procedures to be carried out by peer application entities (AEs) at the time of communication. These rules for communication are intended to provide a sound basis for development in order to serve a variety of purposes:

- as a guide for implementors and designers;
- for use in the testing and procurement of equipment;
- as part of an agreement for the admittance of systems into the open systems environment;
- as a refinement to the understanding of time-critical communications within OSI.

This standard is concerned, in particular, with the communication and interworking of sensors, effectors and other automation devices. By using this standard together with other standards positioned within the OSI or fieldbus reference models, otherwise incompatible systems may work together in any combination.

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