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Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

**I.S. EN 61158-6-7:2008**

ICS 35.100.70  
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**INDUSTRIAL COMMUNICATION  
NETWORKS - FIELDBUS SPECIFICATIONS  
- PART 6-7: APPLICATION LAYER  
PROTOCOL SPECIFICATION - TYPE 7  
ELEMENTS (IEC 61158-6-7:2007 (EQV))**

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English version

**Industrial communication networks -  
Fieldbus specifications -  
Part 6-7: Application layer protocol specification -  
Type 7 elements  
(IEC 61158-6-7:2007)**

Réseaux de communication industriels -  
Spécifications des bus de terrain -  
Partie 6-7: Spécification des services  
des couches d'application -  
Éléments de type 7  
(CEI 61158-6-7:2007)

Industrielle Kommunikationsnetze -  
Feldbusse -  
Teil 6-7: Protokollspezifikation  
des Application Layer  
(Anwendungsschicht) -  
Typ 7-Elemente  
(IEC 61158-6-7:2007)

This European Standard was approved by CENELEC on 2008-02-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, 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 and the United Kingdom.

**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 61158-6-7, 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 61158-6-7 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

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.

Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 61158-6-7:2007 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61784-1            NOTE Harmonized as EN 61784-1:2008 (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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60559	- <sup>1)</sup>	Binary floating-point arithmetic for microprocessor systems	HD 592 S1	1991 <sup>2)</sup>
IEC 61158-3-7	- <sup>1)</sup>	Industrial communication networks - Fieldbus specifications - Part 3-7: Data-link layer service definition - Type 7 elements	EN 61158-3-7	2008 <sup>2)</sup>
IEC 61158-4-7	- <sup>1)</sup>	Industrial communication networks - Fieldbus specifications - Part 4-7: Data-link layer protocol specification - Type 7 elements	EN 61158-4-7	2008 <sup>2)</sup>
IEC 61158-5-7	- <sup>1)</sup>	Industrial communication networks - Fieldbus specifications - Part 5-7: Application layer service definition - Type 7 elements	EN 61158-5-7	2008 <sup>2)</sup>
ISO/IEC 7498-1	- <sup>1)</sup>	Information technology - Open Systems Interconnection - Basic Reference Model: The Basic Model	EN ISO/IEC 7498-1	1995 <sup>2)</sup>
ISO/IEC 8824-2	- <sup>1)</sup>	Information technology - Abstract Syntax Notation One (ASN.1): Information object specification	-	-
ISO/IEC 8825-1	- <sup>1)</sup>	Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)	-	-
ISO/IEC 9506-2	- <sup>1)</sup>	Industrial automation systems - Manufacturing message specification - Part 2: Protocol specification	EN 29506-2	1990 <sup>2)</sup>
ISO/IEC 9545	- <sup>1)</sup>	Information technology - Open Systems Interconnection - Application Layer structure	-	-

<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.



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