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IRISH STANDARD

I.S. EN 61158-6-11:2008

ICS 35.100.70
25.040.40

INDUSTRIAL COMMUNICATION NETWORKS - FIELDBUS SPECIFICATIONS - PART 6-11: APPLICATION LAYER PROTOCOL SPECIFICATION - TYPE 11 ELEMENTS (IEC 61158-6-11:2007 (EQV))

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61158-6-11

March 2008

ICS 35.100.70; 25.040.40

Partially supersedes EN 61158-6:2004

English version

Industrial communication networks - Fieldbus specifications - Part 6-11: Application layer protocol specification - Type 11 elements

(IEC 61158-6-11:2007)

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 6-11: Spécification des services des couches d'application - Eléments de type 11 (CEI 61158-6-11:2007)

Industrielle Kommunikationsnetze - Feldbusse - Teil 6-11: Protokollspezifikation des Application Layer (Anwendungsschicht) - Typ 11-Elemente (IEC 61158-6-11:2007)

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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.

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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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Ref. No. EN 61158-6-11:2008 E

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Foreword

The text of document 65C/476/FDIS, future edition 1 of IEC 61158-6-11, 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 61158-6-11 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.

IEC and CENELEC draw attention to the fact that it is claimed that compliance with this standard may involve the use of patents as follows, where the [xx] notation indicates the holder of the patent right:

TOSHIBA has the patent applications listed below:

– US Publication Number 6711131 and its counterpart patents in other countries

– US Publication Number 5414813 and its counterpart patents in other countries

– US Publication Number 4930121 and its counterpart patents in other countries

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

The holder of these patent rights has assured IEC that he is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statements of the holder of these patent rights are registered with IEC. Information may be obtained from:

Toshiba Corporation
1-1, Shibaura 1-Chome
Minato-ku Tokyo 105-8001, Japan

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights other than those identified above. IEC and CENELEC shall not be held responsible for identifying any or all such patent rights.

Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 61158-6-11:2007 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 61131-3	NOTE	Harmonized as EN 61131-3:2003 (not modified).
IEC 61158-4-11	NOTE	Harmonized as EN 61158-4-11:2008 (not modified).
ISO/IEC 9506-2	NOTE	Harmonized as EN 29506-2:1993 (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 61158-3-11	-[1)]	Industrial communication networks - Fieldbus specifications - Part 3-11: Data-link layer service definition - Type 11 elements	EN 61158-3-11	2008[2)]
IEC 61158-5-11	-[1)]	Industrial communication networks - Fieldbus specifications - Part 5-11: Application layer service definition - Type 11 elements	EN 61158-5-11	2008[2)]
IEC 61784-2	-[1)]	Industrial communication networks - Profiles - Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC 8802-3	EN 61784-2	2008[2)]
ISO/IEC 7498-1	-[1)]	Information technology - Open Systems Interconnection - Basic Reference Model: The Basic Model	EN ISO/IEC 7498-1	1995[2)]
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 8825-1	-[1)]	Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)	-	-
ISO/IEC 9545	-[1)]	Information technology - Open Systems Interconnection - Application Layer structure	-	-

[1)] Undated reference.

[2)] Valid edition at date of issue.

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