

IRISH STANDARD

I.S. EN 61158-4-16:2008

ICS 35.100.20 25.040.40

INDUSTRIAL COMMUNICATION

NETWORKS - FIELDBUS SPECIFICATIONS
-- PART 4-16: DATA-LINK LAYER

PROTOCOL SPECIFICATION - TYPE 16

ELEMENTS (IEC 61158-4-16:2007 (EQV))

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EUROPEAN STANDARD

EN 61158-4-16

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2008

ICS 35.100.20; 25.040.40

Partially supersedes EN 61158-4:2004

English version

Industrial communication networks Fieldbus specifications Part 4-16: Data-link layer protocol specification Type 16 elements

(IEC 61158-4-16:2007)

Réseaux de communication industriels -Spécifications des bus de terrain -Partie 4-16: Spécification des protocoles des couches de liaison de données -Eléments de type 16 (CEI 61158-4-16:2007) Industrielle Kommunikationsnetze -Feldbusse -Teil 4-16: Protokollspezifikation des Data Link Layer (Sicherungsschicht) -Typ 16-Elemente (IEC 61158-4-16:2007)

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/474/FDIS, future edition 1 of IEC 61158-4-16, 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 61158-4-16 on 2008-02-01.

This and the other parts of the EN 61158-4 series supersede EN 61158-4:2004. Together with EN 61158-2:2008 and its companion parts for Type 16, it also partially replaces EN 61491:1998 which is at present being revised (to be issued as a Technical Report).

With respect to EN 61158-4:2004 the following changes were made:

- deletion of Type 6 fieldbus, and the placeholder for a Type 5 fieldbus data-link layer, for lack of market relevance;
- addition of new fieldbus types;
- partition into multiple parts numbered 4-1, 4-2, ..., 4-19.

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.

Endorsement notice

The text of the International Standard IEC 61158-4-16:2007 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 61158-5-16 NOTE Harmonized as EN 61158-5-16:2008 (not modified).

IEC 61158-6-16 NOTE Harmonized as EN 61158-6-16:2008 (not modified).

IEC 61784-1 NOTE Harmonized as EN 61784-1:2008 (not modified).

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Annex ZA (normative)

Normative references to international 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.

with their corresponding European publications

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>	EN/HD	<u>Year</u>
IEC 61158-2	2007	Industrial communication networks - Fieldbus specifications - Part 2: Physical layer specification and service definition	EN 61158-2	2008
IEC 61158-3-16	- 1)	Industrial communication networks - Fieldbus specifications - Part 3-16: Data-link layer service definition - Type 16 elements	EN 61158-3-16	2008 2)
IEC 61800-7-20x ³⁾	(all sub- parts)	Adjustable speed electrical power drive systems - Adjustable speed electrical power drive systems - Part 7-20x: Generic interface and use of profiles for power drive systems	EN 61800-7-20x	(all sub- parts)
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 7498-3	_ 1)	Information technology - Open Systems Interconnection - Basic Reference Model: Naming and addressing	-	-
ISO/IEC 10731	_ 1)	Information technology - Open Systems Interconnection - Basic reference model - Conventions for the definition of OSI services	-	-
ISO/IEC 13239	- ¹⁾	Information technology - Telecommunications and information exchange between systems - High-level data link control (HDLC) procedures		-

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¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

³⁾ At present, these subparts are IEC 61800-7-201, 7-202, 7-203 and 7-204.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
ITU-T	- ¹⁾	Interface between Data Terminal Equipment	-	-
Recommendation		(DTE) and Data Circuit-terminating Equipmen	t	
X.25		(DCE) for terminals operating in the packet		
		mode and connected to public data networks		
		by dedicated circuit		



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