



NSAI
Standards

Irish Standard
I.S. EN 61158-4-7:2008

Industrial communication networks - Fieldbus specifications -- Part 4-7: Data-link layer protocol specification - Type 7 elements

I.S. EN 61158-4-7:2008

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 61158-4-7:2008

Published:

2008-02-29

This document was published under the authority of the NSAI and comes into effect on:

2015-02-19

ICS number:

NOTE: If blank see CEN/CENELEC cover page

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Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 61158-4-7:2008 is the adopted Irish version of the European Document EN 61158-4-7:2008, Industrial communication networks - Fieldbus specifications -- Part 4-7: Data-link layer protocol specification - Type 7 elements

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61158-4-7

February 2008

ICS 35.100.20; 25.040.40

Partially supersedes EN 61158-4:2004

English version

**Industrial communication networks -
Fieldbus specifications -
Part 4-7: Data-link layer protocol specification -
Type 7 elements
(IEC 61158-4-7:2007)**

Réseaux de communication industriels -
Spécifications des bus de terrain -
Partie 4-7: Spécification des protocoles
des couches de liaison de données -
Éléments de type 7
(CEI 61158-4-7:2007)

Industrielle Kommunikationsnetze -
Feldbusse -
Teil 4-7: Protokollspezifikation des
Data Link Layer (Sicherheitsschicht) -
Typ 7-Elemente
(IEC 61158-4-7:2007)

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

Foreword

The text of document 65C/474/FDIS, future edition 1 of IEC 61158-4-7, 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 61158-4-7 on 2008-02-01.

This and the other parts of the EN 61158-4 series supersede EN 61158-4:2004.

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 61158-4-7:2007 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 60870-5-1	NOTE Harmonized as EN 60870-5-1:1993 (not modified).
IEC 61131-2	NOTE Harmonized as EN 61131-2:2007 (not modified).
IEC 61131-3	NOTE Harmonized as EN 61131-3:2003 (not modified).
IEC 61158-5-7	NOTE Harmonized as EN 61158-5-7:2008 (not modified).
IEC 61158-6-7	NOTE Harmonized as EN 61158-6-7:2008 (not modified).
IEC 61784-1	NOTE Harmonized as EN 61784-1:2008 (not modified).
ISO/IEC 9646-1	NOTE Harmonized as EN ISO/IEC 9646-1:1996 (not modified).
ISO/IEC 9646-2	NOTE Harmonized as EN ISO/IEC 9646-2:1996 (not modified).

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