



# SLOVENSKI STANDARD

## SIST EN 61158-5-5:2008

01-julij-2008

Nadomešča:  
SIST EN 61158-5:2004

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### Industrijska komunikacijska omrežja - Specifikacije za procesno vodilo - 5-5. del: Definicija opravil na aplikacijskem nivoju - Elementi tipa 5 (IEC 61158-5-5:2007)

Industrial communication networks - Fieldbus specifications - Part 5-5: Application layer service definition - Type 5 elements

Industrielle Kommunikationsnetze - Feldbusse - Teil 5-5: Dienstfestlegungen des Application Layer (Anwendungsschicht) - Typ 5-Elemente

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 5-5: Définition des services des couches d'application - Éléments de type 5

Ta slovenski standard je istoveten z: EN 61158-5-5:2008

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#### **ICS:**

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.100.70	Uporabniški sloj	Application layer
35.110	Omreževanje	Networking

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61158-5-5**

March 2008

ICS 35.100.70; 25.040.40

Partially supersedes EN 61158-5:2004

English version

**Industrial communication networks -  
Fieldbus specifications -  
Part 5-5: Application layer service definition -  
Type 5 elements  
(IEC 61158-5-5:2007)**

Réseaux de communication industriels -  
Spécifications des bus de terrain -  
Partie 5-5: Définition des services  
des couches d'application -  
Éléments de type 5  
(CEI 61158-5-5:2007)

Industrielle Kommunikationsnetze -  
Feldbusse -  
Teil 5-5: Dienstfestlegungen  
des Application Layer  
(Anwendungsschicht) -  
Typ 5-Elemente  
(IEC 61158-5-5:2007)

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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/475/FDIS, future edition 1 of IEC 61158-5-5, 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 61158-5-5 on 2008-02-01.

This and the other parts of the EN 61158-5 series supersede EN 61158-5:2004.

With respect to EN 61158-5:2004 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 5-2, 5-3, ..., 5-20.

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 [SIST EN 61158-5-5:2008](https://standards.iteh.ai/catalog/standards/sist/829a6c28-1853-4457-be77-ceed04fa9c5a/sist-en-61158-5-5-2008)  
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## Endorsement notice

The text of the International Standard IEC 61158-5-5:2007 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 61158-3-1	NOTE Harmonized as EN 61158-3-1:2008 (not modified).
IEC 61158-4-1	NOTE Harmonized as EN 61158-4-1:2008 (not modified).
IEC 61158-6-5	NOTE Harmonized as EN 61158-6-5:2008 (not modified).
IEC 61784-1	NOTE Harmonized as EN 61784-1:2008 (not modified).

## 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/TR 61158-1	2007	Industrial communication networks - Fieldbus specifications - Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series	-	-
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 7498-3	- <sup>1)</sup>	Information technology - Open Systems Interconnection - Basic Reference Model: Naming and addressing	-	-
ISO/IEC 8822	- <sup>1)</sup>	Information technology - Open Systems Interconnection - Presentation service definition	-	-
ISO/IEC 8824	- <sup>1)</sup>	Information technology - Open Systems Interconnection - Specification of Abstract Syntax Notation One (ASN.1)	-	-
ISO/IEC 9545	- <sup>1)</sup>	Information technology - Open Systems Interconnection - Application Layer structure	-	-
ISO/IEC 10731	- <sup>1)</sup>	Information technology - Open Systems Interconnection - Basic reference model - Conventions for the definition of OSI services	-	-

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

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

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IEC 61158-5-5

Edition 1.0 2007-12

# INTERNATIONAL STANDARD

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**Industrial communication networks – Fieldbus specifications –  
Part 5-5: Application layer service definition – Type 5 elements**

**SIST EN 61158-5-5:2008**  
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INTERNATIONAL  
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