

# SLOVENSKI STANDARD

## SIST EN 61158-6-19:2015

01-marec-2015

Nadomešča:

SIST EN 61158-6-19:2012

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**Industrijska komunikacijska omrežja - Specifikacije za procesna vodila - 6-19. del: Specifikacija protokola na aplikacijski ravni - Elementi tipa 19 (IEC 61158-6-19:2014 )**

Industrial communication networks - Fieldbus specifications - Part 6-19: Application layer protocol specification - Type 19 elements (IEC 61158-6-19:2014 )

**iTeh STANDARD PREVIEW**

Industrielle Kommunikationsnetze - Feldbusse - Teil 6-19: Protokollspezifikation des Application Layer (Anwendungsschicht) - Typ 19-Elemente (IEC 61158-6-19:2014 )

[SIST EN 61158-6-19:2015](#)

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 6-19: Spécification du protocole de la couche application - Elements de type 19 (CEI 61158-6-19:2014 )

**Ta slovenski standard je istoveten z: EN 61158-6-19:2014**

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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

**SIST EN 61158-6-19:2015**

**en,fr,de**

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EUROPEAN STANDARD

**EN 61158-6-19**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2014

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Supersedes EN 61158-6-19:2012

English Version

**Industrial communication networks - Fieldbus specifications -  
Part 6-19: Application layer protocol specification - Type 19  
elements  
(IEC 61158-6-19:2014)**

Réseaux de communication industriels - Spécifications des  
bus de terrain - Partie 6-19: Spécification du protocole de la  
couche application - Eléments de type 19  
(CEI 61158-6-19:2014)

Industrielle Kommunikationsnetze - Feldbusse - Teil 6-19:  
Protokollspezifikation des Application Layer  
(Anwendungsschicht) - Typ 19-Elemente  
(IEC 61158-6-19:2014)

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Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

The text of document 65C/764/FDIS, future edition 3 of IEC 61158-6-19, 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 approved by CENELEC as EN 61158-6-19:2014.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-06-23
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-09-23

This document supersedes EN 61158-6-19:2012.

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**Endorsement notice** 2015

The text of the International Standard IEC 61158-6-19:2014 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	NOTE	Harmonized in EN 61131 series.
IEC 61158-1	NOTE	Harmonized as EN 61158-1.
IEC 61158-4-16	NOTE	Harmonized as EN 61158-4-16.
IEC 61784-1	NOTE	Harmonized as EN 61784-1.
IEC 61784-2	NOTE	Harmonized as EN 61784-2.
IEC 61800	NOTE	Harmonized in EN 61800 series.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61158-3-19	-	Industrial communication networks - Fieldbus specifications - Part 3-19: Data-link layer service definition - Type 19 elements	EN 61158-3-19	-
IEC 61158-4-19	-	Industrial communication networks - Fieldbus specifications - Part 4-19: Data-link layer protocol specification - Type 19 elements	EN 61158-4-19	-
IEC 61158-5-19	-	Industrial communication networks - Fieldbus specifications - Part 5-19: Application layer service definition - Type 19 elements	EN 61158-5-19	-
ISO/IEC 7498-1	-	Information technology - Open Systems Interconnection - Basic reference model: The basic model	-	-
ISO/IEC 8822	-	Information technology - Open Systems Interconnection - Presentation service definition	-	-
ISO/IEC 8824-1	-	Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation	-	-
ISO/IEC 9545	-	Information technology - Open Systems Interconnection - Application layer structure	-	-
ISO/IEC 10731	-	Information technology - Open Systems Interconnection - Basic Reference Model - Conventions for the definition of OSI services	-	-

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IEC 61158-6-19

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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Industrial communication networks – Fieldbus specifications –  
Part 6-19: Application layer protocol specification – Type 19 elements**

**Réseaux de communication industriels – Spécifications des bus de terrain –  
Partie 6-19: Spécification du protocole de la couche application – Eléments  
de type 19**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**INDUSTRIAL COMMUNICATION NETWORKS –  
FIELD BUS SPECIFICATIONS –**
**Part 6-19: Application layer protocol specification –  
Type 19 elements**

## FOREWORD

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Attention is drawn to the fact that the use of the associated protocol type is restricted by its 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 layer protocol type to be used with other layer protocols of the same type, or in other type combinations explicitly authorized by its intellectual-property-right holders.

NOTE Combinations of protocol types are specified in IEC 61784-1 and IEC 61784-2.

International Standard IEC 61158-6-19 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation.

This third edition cancels and replaces the second edition published in 2010. This edition constitutes a technical revision. The main changes with respect to the previous edition are listed below:

- introducing connections based on a producer-consumer model;
- introducing additional mechanisms to realize features such as timestamping and oversampling;
- improving the hotplug and redundancy features;
- improving the phase switching and the error handling;
- editorial improvements.

The text of this standard is based on the following documents:

FDIS	Report on voting
65C/764/FDIS	65C/774/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61158 series, published under the general title *Industrial communication networks – Fieldbus specifications*, can be found on the IEC web site.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be:

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- withdrawn;
- replaced by a revised edition, or [SIST EN 61158-6-19:2015](#)
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