

# SLOVENSKI STANDARD

## SIST EN 61158-3-14:2015

01-marec-2015

Nadomešča:

SIST EN 61158-3-14:2012

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**Industrijska komunikacijska omrežja - Specifikacije za procesna vodila - 3-14. del: Specifikacija protokola na ravni podatkovnih povezav - Elementi tipa 14 (IEC 61158-3-14:2014)**

Industrial communication networks - Fieldbus specifications - Part 3-14: Data-link layer service definition - Type 14 elements (IEC 61158-3-14:2014)

**iTeh STANDARD PREVIEW**

Industrielle Kommunikationsnetze - Feldbusse - Teil 3-14: Dienstfestlegungen des Data Link Layer (Sicherheitsschicht) - Typ 14-Elemente (IEC 61158-3-14:2014)

[SIST EN 61158-3-14:2015](#)

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 3-14: Définition des services de la couche liaison de données - Eléments de type 14 (CEI 61158-3-14:2014)

**Ta slovenski standard je istoveten z: EN 61158-3-14:2014**

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**ICS:**

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.100.20	Podatkovni povezovalni sloj	Data link layer
35.110	Omreževanje	Networking

**SIST EN 61158-3-14:2015**

**en,fr,de**

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EUROPEAN STANDARD

**EN 61158-3-14**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 61158-3-14:2012

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**Industrial communication networks - Fieldbus specifications -  
Part 3-14: Data-link layer service definition - Type 14 elements  
(IEC 61158-3-14:2014)**

Réseaux de communication industriels - Spécifications des  
bus de terrain - Partie 3-14: Définition des services de la  
couche liaison de données - Eléments de type 14  
(CEI 61158-3-14:2014)

Industrielle Kommunikationsnetze - Feldbusse - Teil 3-14:  
Dienstfestlegungen des Data Link Layer  
(Sicherheitsschicht) - Typ 14-Elemente  
(IEC 61158-3-14:2014)

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

## Foreword

The text of document 65C/759/FDIS, future edition 3 of IEC 61158-3-14, 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 61158-3-14:2014.

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) 2015-06-17
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-09-17

This document supersedes EN 61158-3-14:2012.

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

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**Endorsement notice**

The text of the International Standard IEC 61158-3-14:2014 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 61158-1	NOTE	Harmonized as EN 61158-1.
IEC 61158-4-14	NOTE	Harmonized as EN 61158-4-14.
IEC 61158-5-14	NOTE	Harmonized as EN 61158-5-14.
IEC 61158-6-14	NOTE	Harmonized as EN 61158-6-14.
IEC 61784-1	NOTE	Harmonized as EN 61784-1.
IEC 61784-2	NOTE	Harmonized as EN 61784-2.

## 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 61588	2009	Precision clock synchronization protocol for networked measurement and control systems	-	-
ISO/IEC 7498-1	-	Information technology - Open Systems Interconnection - Basic Reference Model: The Basic Model	-	-
ISO/IEC 7498-3	-	Information technology - Open Systems Interconnection - Basic Reference Model: Naming and addressing	-	-
ISO/IEC 8802-3	-	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications	-	-
ISO/IEC 10731	-	Information technology - Open Systems Interconnection - Basic Reference Model - Conventions for the definition of OSI services	-	-
IETF RFC 768	-	User Datagram Protocol	-	-
IETF RFC 791	-	Internet Protocol	-	-
IETF RFC 793	-	Transmission Control Protocol	-	-

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IEC 61158-3-14

Edition 3.0 2014-08

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Industrial communication networks – Fieldbus specifications –  
Part 3-14: Data-link layer service definition – Type 14 elements**

**Réseaux de communication industriels – Spécifications des bus de terrain –  
Partie 3-14: Définition des services de la couche liaison de données – Éléments  
de type 14**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL COMMUNICATION NETWORKS –  
FIELDBUS SPECIFICATIONS –****Part 3-14: Data-link layer service definition –  
Type 14 elements**

## FOREWORD

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

International Standard IEC 61158-3-14 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:

- provide stability date for the publication;
- update the edition of IEC 61588;
- update the Communication model;
- update the primitives and parameters of the DL-management service for FRT applications in 5.4.2;
- correct the edit error;
- update of the requirements for all conformance classes;
- update of the requirements for all conformance services.

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

FDIS	Report on voting
65C/759/FDIS	65C/769/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

- reconfirmed, [SIST EN 61158-3-14:2015](https://standards.iteh.ai/catalog/standards/sist/078186b6-c475-40e8-8fad-8704f8d1872a/sist-en-61158-3-14-2015)
- withdrawn, <https://standards.iteh.ai/catalog/standards/sist/078186b6-c475-40e8-8fad-8704f8d1872a/sist-en-61158-3-14-2015>
- replaced by a revised edition, or
- amended.

## INTRODUCTION

This part of IEC 61158 is one of a series produced to facilitate the interconnection of automation system components. It is related to other standards in the set as defined by the “three-layer” fieldbus reference model described in IEC 61158-1.

Throughout the set of fieldbus standards, the term “service” refers to the abstract capability provided by one layer of the OSI Basic Reference Model to the layer immediately above. Thus, the data-link layer service defined in this standard is a conceptual architectural service, independent of administrative and implementation divisions.

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