

SLOVENSKI STANDARD

SIST EN 61158-3-14:2012

01-julij-2012

Nadomešča:

SIST EN 61158-3-14:2008

Industrijska komunikacijska omrežja - Specifikacije za procesna vodila - 3-14. del: Definicija opravi na nivoju podatkovnih povezav - Elementi tipa 14 (IEC 61158-3-14:2010)

Industrial communication networks - Fieldbus specifications - Part 3-14: Data-link layer service definition - Type 14 elements (IEC 61158-3-14:2010)

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Industrielle Kommunikationsnetze - Feldbusse - Teil 3-14: Dienstfestlegungen des Data Link Layer (Sicherheitsschicht) - Typ 14-Elemente (IEC 61158-3-14:2010)

[SIST EN 61158-3-14:2012](#)

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 3-14: Définition des services de couche liaison de données - Éléments de type 14 (CEI 61158-3-14:2010)

Ta slovenski standard je istoveten z: EN 61158-3-14:2012

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

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Foreword

The text of document 65C/604/FDIS, future edition 2 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 61158-3-14:2012.

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) 2012-12-28
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-03-28

This document supersedes EN 61158-3-14:2008.

EN 61158-3-14:2012 includes the following significant technical changes with respect to EN 61158-3-14:2008:

- provide stability date for the publication;
- update the edition of IEC 61588;
- update the Normative references and Bibliography;
- update the value of Protocol type in 5.3.2;
- correct the edit error;
- specification changes for CPF3;
- update of the requirements for all conformance classes;
- update of the requirements for all conformance services.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61158-3-14:2010 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/TR 61158-1	NOTE Harmonized as CLC/TR 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.

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 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 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 - DARPA Internet Program Protocol Specification	-	-
IETF RFC 793	-	Transmission Control Protocol - DARPA Internet Program Protocol Specification	-	-

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IEC 61158-3-14

Edition 2.0 2010-08

INTERNATIONAL STANDARD

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

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

FOREWORD

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NOTE 1 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 profile parts. Use of the various protocol types in other combinations may require permission of their respective intellectual-property-right holders.

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 second edition cancels and replaces the first edition published in 2007. 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 Normative references and Bibliography;
- Update the value of Protocol type in subclause 5.3.2;
- Correct the edit error;
- specification changes for CPF3;
- 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/604/FDIS	65C/618/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,
- withdrawn,
- replaced by a revised edition, or
- amended.

NOTE 2 The revision of this standard will be synchronized with the other parts of the IEC 61158 series.

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/TR 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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