

SLOVENSKI STANDARD SIST EN 61158-6-4:2015

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Nadomešča:

SIST EN 61158-6-4:2008

Industrijska komunikacijska omrežja - Specifikacije za procesna vodila - 6-4. del: Specifikacija protokola na aplikacijski ravni - Elementi tipa 4 (IEC 61158-6-4:2014)

Industrial communication networks - Fieldbus specifications - Part 6-4: Application layer protocol specification - Type 4 elements (IEC 61158-6-4:2014)

Industrielle Kommunikationsnetze - Feldbusse - Teil 6-4: Protokollspezifikation des Application Layer (Anwendungsschicht) - Typ 4-Elemente (IEC 61158-6-4:2014)

Réseaux de communication industri<u>els : Spécifications</u> des bus de terrain - Partie 6-4: Spécification du protocole de la couche application de Eléments de type 4 (CEI 61158-6-4:2014)

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(IEC 61158-6-4:2014)

Réseaux de communication industriels - Spécifications des bus de terrain - Partie 6-4: Spécification du protocole de la couche application - Eléments de type 4 (CEI 61158-6-4:2014) Industrielle Kommunikationsnetze - Feldbusse - Teil 6-4: Protokollspezifikation des Application Layer (Anwendungsschicht) - Typ 4-Elemente (IEC 61158-6-4:2014)

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

Foreword

The text of document 65C/764/FDIS, future edition 2 of IEC 61158-6-4, 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 61158-6-4:2014.

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
- latest date by which the national standards conflicting with (dow) 2017-09-23 the document have to be withdrawn

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The text of the International Standard IEC 61158-6-4:2014 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 61158-4-4	NOTE	Harmonized as EN 61158-4-4.
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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 61158-3-4	iTe	Industrial communication networks - Fieldbus specifications - Part 3-4: Data-link layer service definition - Type 4 elements	EN 61158-3-4	-
IEC 61158-5-4	-	Industrial communication networks - Fieldbus specifications - Part 5-4: Application layer service definition - Type 4 elements 2015	EN 61158-5-4	-
IEC 61158-6	https://sta 2003 ¹⁾	ndards.iteh.ai/cafalog/standards/sist/dcba8ec5-0ffa-401 Digital-data communications for 4-2015 measurement and control - Fieldbus for use in industrial control systems - Part 6: Application layer protocol specification	19-91bd- EN 61158-6	2004 ²⁾
IEC 61158-6	series	Industrial communication networks - Fieldbus specifications - Part 6: Application layer protocol specification	EN 61158-6	series
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	-	-

2) Superseded by the EN 61158-6 series (IEC 61158-6 series).

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¹⁾ Superseded by the IEC 61158-6 series.

- 4 -

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Industrial communication networks - Fieldbus specifications - Part 6-4: Application layer protocol specification - Type 4 elements

Réseaux de communication industriels 58-Spécifications des bus de terrain – Partie 6-4: Spécification du protocole de la couche application – Eléments de type 4 cf10e714b84d/sist-en-61158-6-4-2015

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CONTENTS

FΟ	REW	DRD	5
INT	RODI	JCTION	7
1	Scop	e	8
	1.1	General	8
	1.2	Specifications	8
	1.3	Conformance	9
2	Norm	native references	9
3	Term	s, definitions, symbols, abbreviations and conventions	9
	3.1	Referenced terms and definitions	9
	3.2	Abbreviations and symbols	11
	3.3	Conventions	11
4	FAL	syntax description	13
	4.1	FAL-AR PDU abstract syntax	13
	4.2	Data types	15
5	Tran	sfer syntaxes	15
	5.1	APDU encoding	15
	5.2	Variable object encoding and packing	19
	5.3	Error codes T. S. T. A. N. D. A. R. D. P. R. F. V. IF. W	22
6	FAL	protocol state machines	22
7		ontext state machine (standards.iteh.ai)	
8	FAL	service protocol machine (FSPM)	24
	8.1	Primitives exchanged between FAL User and FSPM	24
	8.2	FSPM statesef10e714b84d/sist-en-61158-6-4-2015	24
9	Appli	cation relationship protocol machine (ARPM)	29
	9.1	Primitives exchanged between ARPM and FSPM	29
	9.2	ARPM States	30
10	DLL	mapping protocol machine (DMPM)	32
	10.1	Data-link Layer service selection	32
	10.2	Primitives exchanged between ARPM and DLPM	32
	10.3	Primitives exchanged between DLPM and data-link layer	32
	10.4	DLPM states	33
11	Proto	ocol options	35
Bib	liogra	phv	36

Figure 1 – State transition diagram	12
Figure 2 – APDU header structure	15
Figure 3 – Instruction subfield of ControlStatus	16
Figure 4 – Errorcode subfield of ControlStatus	16
Figure 5 – Remaining subfields of ControlStatus	17
Figure 6 – DataFieldFormat encoding	17
Figure 7 – Structure of request APDU body	17
Figure 8 – Structure of response APDU body	18
Figure 9 – Variable identifier	18
Figure 10 – Code subfield of variable identifier	18
Figure 11 – Summary of FAL architecture	23
Figure 12 – FSPM proxy object state machine	25
Figure 13 – FSPM real object state machine	28
Figure 14 – ARPM state machine	30
Figure 15 – DLPM state machine	33
	4.0
Table 1 – State machine description elements	
Table 2 – APDU header Table 3 – APDU body iTeh STANDARD PREVIEW	
•	
Table 4 – Transfer syntax for Argandards:itch.ai)	20
Table 5 – Transfer syntax for Structure	
Table 6 – Common variable object attributes 61.158-6-4:2015	21
Table 7 – Variable type identifiers cf10e/14684d/sist-en-61158-6-4-2015 Table 8 – FIFO variable object attributes	21
Table 9 – Error codes	
Table 10 – Primitives exchanged between FAL-User and FSPM	
Table 11 – REQUEST.req FSPM constraints	
Table 12 – REQUEST.req FSPM actions	
Table 13 – RESPONSE.cnf FSPM constraints	
Table 14 – RESPONSE.cnf FSPM actions	
Table 15 – AR Send ind proxy FSPM constraints	
Table 16 – AR Send ind proxy FSPM actions	
Table 17 – AR Send indired FSPM constraints	
Table 18 – AR Send.ind real FSPM Actions	
Table 19 – Primitives issued by FSPM to ARPM	
Table 20 – Primitives issued by ARPM to FSPM	30

- 4 -	IEC 61159 6 4:3	014 © IEC 2014
- 4 -	156 01100-0-4.2	014 © IEC 2014

Table 21 – Primitives issued by ARPM to ARPM	30
Table 22 – AR Send.req ARPM constraints	30
Table 23 – AR Send.req ARPM actions	30
Table 24 – AR Acknowledge.req ARPM constraints	31
Table 25 – AR Acknowledge.req ARPM actions	31
Table 26 – AR Send.ind ARPM constraints	31
Table 27 – AR Send.req ARPM actions	31
Table 28 – Primitives issued by ARPM to DLPM	32
Table 29 – Primitives issued by DLPM to ARPM	32
Table 30 – Primitives issued by DLPM to data-link layer	33
Table 31 – Primitives issued by data-link layer to DLPM	33
Table 32 – AR Send.req DLPM constraints	33
Table 33 – AR Send.req DLPM actions	34
Table 34 – AR Acknowledge.req DLPM constraints	34
Table 35 – AR Acknowledge.req DLPM actions	34
Table 36 – DL-UNITDATA.ind DLPM constraints	34
Table 37 – DL-UNITDATA.ind DLPM actions	35

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

INDUSTRIAL COMMUNICATION NETWORKS – FIELDBUS SPECIFICATIONS –

Part 6-4: Application layer protocol specification – Type 4 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 61158-6-4 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 an technical revision.

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This edition includes the following significant changes with respect to the previous edition:

- a) editorial improvements;
- b) editorial corrections.

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 the parts of the IEC 61158 series, 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: iTeh STANDARD PREVIEW
- replaced by a revised edition standards.iteh.ai)
- amended.

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-6-

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-7-

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.

The application protocol provides the application service by making use of the services available from the data-link or other immediately lower layer. The primary aim of this standard is to provide a set of rules for communication expressed in terms of the procedures to be carried out by peer application entities (AEs) at the time of communication. These rules for communication are intended to provide a sound basis for development in order to serve a variety of purposes:

- as a guide for implementors and designers;
- for use in the testing and procurement of equipment;
- as part of an agreement for the admittance of systems into the open systems environment;
- as a refinement to the understanding of time-critical communications within OSI.

This standard is concerned, in particular, with the communication and interworking of sensors, effectors and other automation devices. By using this standard together with other standards positioned within the OSI or fieldbus reference models, otherwise incompatible systems may work together in any combination.

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