

SLOVENSKI STANDARD oSIST prEN IEC 61804-4:2019

01-januar-2019

Funkcijski bloki (FB) za nadzor procesov in opisni jezik za elektronske naprave (EDDL) - 4. del: Interpretacija EDD

Function blocks (FB) for process control and electronic device description language (EDDL) - Part 4: EDD interpretation

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Blocs fonctionnels (FB) pour les procédés industriels et le langage de description électronique de produit (EDDL) - Partie 4: Interprétation EDD

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25.040.40 Merjenje in krmiljenje Industrial process

industrijskih postopkov measurement and control

35.060 Jeziki, ki se uporabljajo v Languages used in

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PROJECT NUMBER:



65E/633/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

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	2018-11-16		2019-02-08
	SUPERSEDES DOCUM	MENTS:	
	65E/530/RR		
IEC SC 65E : DEVICES AND INTEGRATION	N IN ENTERPRISE SYS	ΓEMS	
SECRETARIAT:		SECRETARY:	
United States of America		Mr Donald (Bob) Lattimer	
OF INTEREST TO THE FOLLOWING COMMI	ITEES:	PROPOSED HORIZONTAL STANDARD:	
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https://standards.iteh Attention IEC-CENELEC parallel vot	•		5ba-a4c1-47e4-8503-
The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.			020
The CENELEC members are invited t CENELEC online voting system.	o vote through the		
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TITLE:			
Function blocks (FB) for process control and electronic device description language (EDDL) - Part 4: EDD interpretation			
PROPOSED STABILITY DATE: 2021			
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FUNCTION BLOCKS (FB) FOR PROCESS CONTROL AND ELECTRONIC DEVICE DESCRIPTION LANGUAGE (EDDL) –

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Part 4: EDD interpretation

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FOREWORD

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- International Standard IEC 61804-4 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement and control.
- This second edition cancels and replaces the first edition published in 2015. This edition constitutes a technical revision.
- This edition was developed by merging material from multiple variants of existing EDDL specifications including those from FieldComm Group (Foundation™ Fieldbus¹, HART®²),

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- PROFIBUS^{™ 3} Nutzerorganisation e.V. (PNO), and ISA100_Wireless^{™ 4} Compliance Institute (ISA100 WCI). When a profile deviation exists, it is now indicated in the context where the related deviation is found. As a result, the formatting and numbering of this edition may be different from any of the individual specifications from which this edition was derived.
- This edition includes the following significant technical changes with respect to the previous edition:
 - Communication profiles ISA100 and GPE were added.
 - Description of rules for optimized-column-width layout have been added.
- Description of the concatenation of labels and help was added.
 - Color banding for meter type charts was added.

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

FDIS	Report on voting
65E/XXX/FDIS	65E/XXX/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.

- 66 This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.
- A list of all parts in the IEC 61804 series, published under the general title *Function blocks* (FB) for process control and Electronic Device Description Language (EDDL), can be found on the IEC website.
- Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.
- The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be
- 75 reconfirmed,
- √ withdrawn,
- 77 replaced by a revised edition, or
- 78 amended.

The National Committees are requested to note that for this publication the stability date is 2023.

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- 89 This part of IEC 61804
 - contains an overview of the use of EDDL;
 - provides examples demonstrating the use of the EDDL constructs;
- shows how the use cases are fulfilled; and
 - shows the proper EDD application interpretation for each example.
- 94 This part of IEC 61804 is not an EDDL tutorial and is not intended to replace the EDDL specification.
 - Instructions are provided for the EDD application, which describe what will be performed without prescribing the technology used in the host implementation. For example, the FILE construct describes data that is stored by the EDD application on behalf of the EDD. The FILE construct does not specify how the data is stored. The EDD application can use a database, a flat file, or any other implementation it chooses.
 - EDDL features are limited by profile for each of the communication technologies. The descriptions in this part of IEC 61804 refer to these features in a general sense and not all communication technologies will support all of the features described. The profile definitions in IEC 61804-3 shall be referred to in order to understand the features supported by each communication technology.

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107 108	FUNCTION BLOCKS (FB) FOR PROCESS CONTROL AND ELECTRONIC DEVICE DESCRIPTION LANGUAGE (EDDL) –
100	DEVICE DESCRIPTION LANGUAGE (EDDE) -
110	Part 4: EDD interpretation
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112	1 Scope
113 114 115 116 117	This part of IEC 61804 specifies EDD interpretation for EDD applications and EDDs to support EDD interoperability. This document is intended to ensure that field device developers use the EDDL constructs consistently and that the EDD applications have the same interpretations of the EDD. It supplements the EDDL specification to promote EDDL application interoperability and improve EDD portability between EDDL applications.
118	2 Normative references
119 120 121 122	The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.
123 124 125	IEC 61784-1, Industrial communication networks – Profiles – Part 1: Fieldbus profiles61784-2, Industrial communication networks – Profiles – Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC 8802-3
126 127	IEC 61804-3, Function blocks (FB) for process control and Electronic device description language (EDDL) – Part 3: EDDL syntax and semantics
128 129	IEC 61804-5, Function blocks (FB) for process control and Electronic device description language (EDDL) – Part 5: EDDL Builtin library
130 131	ISO/IEC 10918 (all parts), Information technology - Digital compression and coding of continuous-tone still images 16183118e15/sist-en-iec-61804-4-2020
132 133	ISO/IEC 15948, Information technology - Computer graphics and image processing - Portable Network Graphics (PNG): Functional specification
134	3 Terms, definitions, abbreviated terms acronyms and conventions
135	3.1 General terms and definitions
136 137	For the purposes of this document, the terms and definitions given in IEC 61804-3 and the following apply.
138 139	ISO and IEC maintain terminological databases for use in standardization at the following addresses:
140	ISO Online browsing platform: available at https://www.iso.org/obp
141	IEC Electropedia: available at http://www.electropedia.org/
142	3.1.1
143 144	EDD developer individual or team that develops an EDD
145	3.1.2
146 147	container user interface elements that contain other user interface elements
148	Note 1 to entry: Containers can include menus, windows, dialogs, tables, pages, groups, and other containers.