

SLOVENSKI STANDARD oSIST prEN IEC 61784-5-22:2022

01-junij-2022

Industrijska komunikacijska omrežja - Profili - 5-22. del: Inštalacija procesnih vodil - Inštalacijski profili za CPF 22

Industrial communication networks - Profiles - Part 5-22: Installation of fieldbuses - Installation profiles for CPF 22

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ICS:

25.040.40 Merjenje in krmiljenje industrijskih postopkov
35.100.05 Večslojne uporabniške rešitve

Industrial process measurement and control Multilayer applications

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65C/1161/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:	
IEC 61784-5-22 ED1	
DATE OF CIRCULATION:	CLOSING DATE FOR VOTING:
2022-03-25	2022-06-17
SUPERSEDES DOCUMENTS:	
65C/1059/CD. 65C/1073/CC	

IEC SC 65C : INDUSTRIAL NETWORKS		
SECRETARIAT:	SECRETARY:	
France	Ms Valérie DEMASSIEUX	
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD:	
SC 22G,TC 57,SC 121A		
	Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.	
FUNCTIONS CONCERNED:	QUALITY ASSURANCE SAFETY	
SUBMITTED FOR CENELEC PARALLEL VOTING		
Attention IEC-CENELEC parallel voting ndards.iteh.ai) 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.		
The CENELEC memberstare invited to vote through the CENELEC online voting system.	og/standards/sist/8cf12324- 8f8/osist-pren-iec-61784-5-	

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Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

Industrial communication networks – Profiles – Part 5-22: Installation of fieldbuses – Installation profiles for CPF 22

PROPOSED STABILITY DATE: 2028

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IEC CDV 61784-5-22 © IEC 2022 INTERNATIONAL ELECTROTECHNICAL COMMISSION INDUSTRIAL COMMUNICATION NETWORKS -**PROFILES** -Part 5-22: Installation of fieldbuses – Installation profiles for CPF 22 FOREWORD 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations. 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees. 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter. 5) IEC itself does not provide any attestation of conformity sincependent certification bodies provide conformity assessment services and in some areas, access to IEC marks of conformity TEC is not responsible for any services carried out by independent certification bodies.

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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent 95 rights. IEC shall not be held responsible for identifying any or all such patent rights. 96
- 97 IEC 61784-5-22 has been prepared by subcommittee 65C: Industrial Networks, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International 98 Standard. 99
- This document is to be used in conjunction with IEC 61918:2018 and IEC 61918:2018/AMD1:—. 100
- The text of this International Standard is based on the following documents: 101

FDIS	Report on voting
65C/XX/FDIS	65C/XX/RVD

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Full information on the voting for the approval of this international Standard can be found in the 103 report on voting indicated in the above table. 104

The language used for the development of this International Standard is English. 105

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This document was drafted in accordance with the ISO/IEC Directives, Part 2, and developed
 in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement,
 available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC
 are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts of IEC 61784-5 series, under the general title *Industrial communications networks – Profiles – Installation of fieldbuses*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- 116 withdrawn,
- 117 replaced by a revised edition, or
- 118 amended.
- 119

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- 121 A bilingual version of this publication may be issued at a later date.
- 122

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INTRODUCTION

125 This International Standard is one of a series produced to facilitate the use of communication 126 networks in industrial control systems.

127 IEC 61918:2018 and IEC 61918:2018/AMD1:— provide the common requirements for the 128 installation of communication networks in industrial control systems. This installation profile 129 document provides the installation profiles of the communication profiles (CP) of a specific 130 communication profile family (CPF) by stating which requirements of IEC 61918 fully apply and, 131 where necessary, by supplementing, modifying, or replacing the other requirements (see 132 Figure 1).

For general background on fieldbuses, their profiles, and relationship between the installation profiles specified in this document, see IEC 61158-1.

Each CP installation profile is specified in a separate annex of this document. Each annex is structured exactly as the reference standard IEC 61918 for the benefit of the persons representing the roles in the fieldbus installation process as defined in IEC 61918 (planner, installer, verification personnel, validation personnel, maintenance personnel, administration personnel). By reading the installation profile in conjunction with IEC 61918, these persons immediately know which requirements are common for the installation of all CPs and which are modified or replaced. The conventions used to draft this document are defined in Clause 5.

The provision of the installation profiles in one document for each CPF (for example IEC 61784-5-22 for CPF 22), allows readers to work with documents of a convenient size.

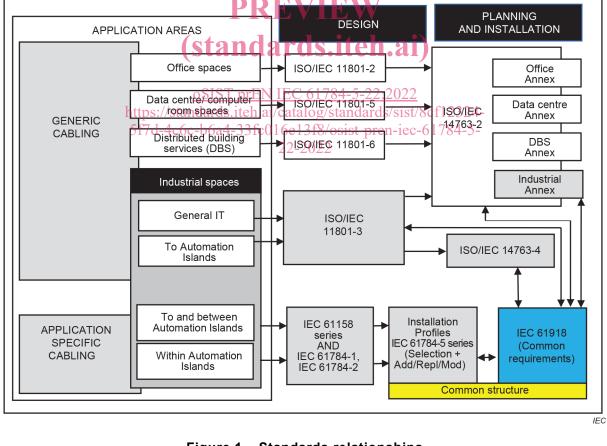


Figure 1 – Standards relationships

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148	INDUSTRIAL COMMUNICATION NETWORKS –
149	PROFILES –
150	
151	Part 5-22: Installation of fieldbuses –
152	Installation profiles for CPF 22
153	

Scope 1 154

This part of IEC 61784-5 specifies the installation profile for CPF 22 (AUTBUS^{TM 1}). 155

The installation profile is specified in the annex. The annex is read in conjunction with IEC 156 61918:2018 and IEC 61918:2018/AMD1:---. 157

2 Normative references 158

The following documents are referred to in the text in such a way that some or all of their content 159 constitutes requirements of this document. For dated references, only the edition cited applies. 160 For undated references, the latest edition of the referenced document (including any 161 amendments) applies. 162

- IEC 61918:2018, Industrial communication networks Installation of communication networks 163 in industrial premises 164 TICH STANDARD
- IEC 61918:2018/AMD1:---, Industrial communication networks Installation of communication 165 networks in industrial premises² $\mathbf{F}\mathbf{K}\mathbf{L}\mathbf{V}\mathbf{L}\mathbf{L}$ 166
- The normative references of IEC 61918:2018 Clause 2, and IEC 61918:2018/AMD1:--, 167 Clause 2, apply. 168
- NOTE For profile specific normative references, see Clause A.2. 169
- Terms, definitions/and/abbreviated/termstandards/sist/8cf12324-3 170
- 5f7d-4c6c-b6a4-33fc016e13f8/osist-pren-iec-61784-5-For the purposes of this document, the terms 2definitions and abbreviated terms given in 171 IEC 61918:2018, Clause 3, IEC 61918:2018/AMD1:--, Clause 3, apply. 172
- ISO and IEC maintain terminological databases for use in standardization at the following 173 addresses: 174
- IEC Electropedia: available at http://www.electropedia.org/ 175
- ISO Online browsing platform: available at http://www.iso.org/obp 176 •

CPF 22: Overview of installation profiles 177 4

- CPF 22 consists of one communication profile as specified in IEC 61784-1. 178
- The installation requirements for CP 22/1 (AUTBUS) are specified in Annex A. 179

¹ AUTBUS[™] is the trade name of the Kyland Technology Co., Ltd. This information is given for the convenience of users of this part of this document and does not constitute an endorsement by IEC of the trademark holder or any of its products. Compliance does not require use of the trade name. Use of the trade name requires permission of Kyland Technology Co., Ltd.

² Under preparation. Stage at the time of publication: IEC/FDIS 61918:2018/AMD1

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180 **5 Installation profile conventions**

- 181 The numbering of the clauses and subclauses in the annex of this document corresponds to the 182 numbering of IEC 61918 main clauses and subclauses.
- 183 The annex clauses and subclauses of this document supplement, modify, or replace the 184 respective clauses and subclauses in IEC 61918.
- 185 Where there is no corresponding subclause of IEC 61918 in the normative annex in this 186 document, the subclause of IEC 61918 applies without modification.
- The annex heading letter represents the installation profile assigned in Clause 4. The annex
 (sub)clause numbering following the annex letter shall represent the corresponding (sub)clause
 numbering of IEC 61918.
- 190 EXAMPLE Subclause A.4.4 in IEC 61784-5-22 means that CP 22/1 specifies the Subclause 4.4 of IEC 61918.
- All main clauses of IEC 61918 are cited and apply in full unless otherwise stated in each normative installation profile annex.
- If all subclauses of a (sub)clause are omitted, then the corresponding IEC 61918 (sub)clauseapply.
- If in a (sub)clause it is written "Not applicable", then the corresponding IEC 61918 (sub)clause
 does not apply.
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- 197 If in a (sub)clause it is written "*Addition*.", then the corresponding IEC 61918 (sub)clause 198 applies with the additions written in the profile.
- 199 If in a (sub)clause it is written "*Replacement:*", then the text provided in the profile replaces the 200 text of the corresponding IEC 61918 (sub)clause S.IICh.21
- 201 NOTE A replacement can also comprise additions.
- If in a (sub)clause it is written <u>Modification</u>: C then the corresponding IEC 61918 (sub)clause applies with the modifications written in the profile/standards/sist/8cf12324-
- If all (sub)clauses of a (sub)clause are omitted but in this (sub)clause it is written "(Sub)clause x has addition:" (or "replacement:") or "(Sub)clause x is not applicable.", then (sub)clause x becomes valid as declared and all the other corresponding IEC 61918 (sub)clauses apply.

207 6 Conformance to installation profiles

- Each installation profile within this document includes part of the IEC 61918:2018 and IEC 61918:2018/AMD1:—. It may also include defined additional specifications.
- A statement of compliance with an installation profile of this document shall be stated³ as either
- 211 Compliance with IEC 61784-5-22:—⁴ for CP 22/m <name> or
- 212 Compliance with IEC 61784-5-22 (Ed.1.0) for CP 22/m <name>
- where the name within the angle brackets < > is optional and the angle brackets are not to be included. The m within CP 22/m shall be replaced by the profile number 1.
- 215 NOTE The name may be the name of the profile, for example AUTBUS.
- 216 If the name is a trade name, then the permission of the trade name holder shall be required.

³ In accordance with ISO/IEC Directives.

 $^{^{4}}$ The date should not be used when the edition number is used.

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Product standards shall not include any conformity assessment aspects (including quality
 management provisions), neither normative nor informative, other than provisions for product
 testing (evaluation and examination).

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