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

Réseaux de communication industriels - Profils - Partie 5-22: Installation de bus de terrain - Profils d'installation pour CPF 22

Ta slovenski standard je istoveten z: prEN IEC 61784-5-22:2022

ICS:

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.100.05	Večslojne uporabniške rešitve	Multilayer applications

oSIST prEN IEC 61784-5-22:2022 **en,fr,de**

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: France	SECRETARY: Ms Valérie DEMASSIEUX
OF INTEREST TO THE FOLLOWING COMMITTEES: SC 22G,TC 57,SC 121A	PROPOSED HORIZONTAL STANDARD: ☐ Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: ☐ EMC ☐ ENVIRONMENT ☐ QUALITY ASSURANCE ☐ SAFETY	
☒ SUBMITTED FOR CENELEC PARALLEL VOTING **Attention IEC-CENELEC parallel voting** 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 members are invited to vote through the CENELEC online voting system.	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

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

PROPOSED STABILITY DATE: 2028

NOTE FROM TC/SC OFFICERS:

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

Part 5-22: Installation of fieldbuses – Installation profiles for CPF 22

FOREWORD

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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 Standard.

This document is to be used in conjunction with IEC 61918:2018 and IEC 61918:2018/AMD1:—.

The text of this International Standard is based on the following documents:

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

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

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

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

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

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

115 • reconfirmed,
116 • withdrawn,
117 • replaced by a revised edition, or
118 • amended.

119

IMPORTANT – The 'colour inside' logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

120

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

122

123

INTRODUCTION

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

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

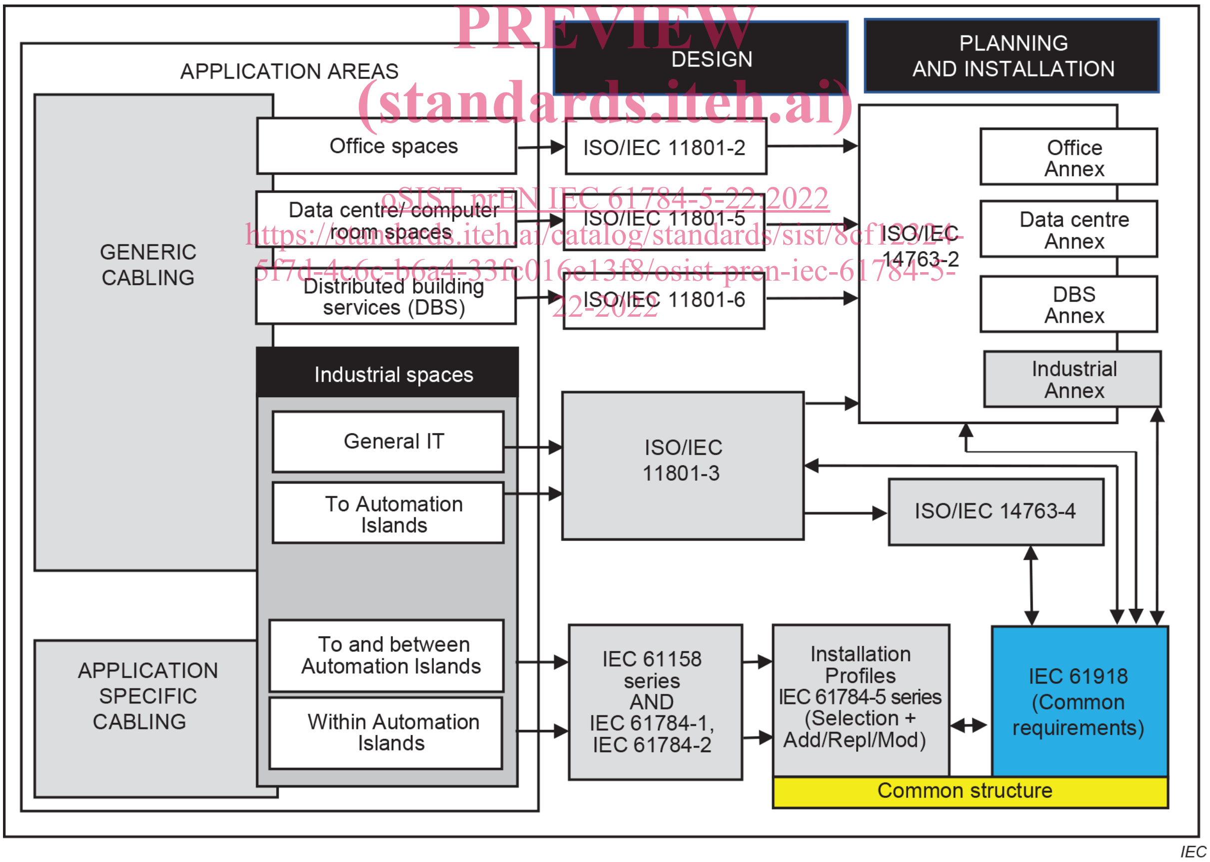

Figure 1 – Standards relationships

INDUSTRIAL COMMUNICATION NETWORKS – PROFILES –

Part 5-22: Installation of fieldbuses – Installation profiles for CPF 22

1 Scope

This part of IEC 61784-5 specifies the installation profile for CPF 22 (AUTBUS™ [1]).

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

2 Normative references

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.

IEC 61918:2018, *Industrial communication networks – Installation of communication networks in industrial premises*

IEC 61918:2018/AMD1:—, Industrial communication networks – Installation of communication networks in industrial premises[2]

The normative references of IEC 61918:2018, Clause 2, and IEC 61918:2018/AMD1:—, Clause 2, apply.

NOTE For profile specific normative references, see Clause A.2.

3 Terms, definitions and abbreviated terms

For the purposes of this document, the terms, definitions and abbreviated terms given in IEC 61918:2018, Clause 3, IEC 61918:2018/AMD1:—, Clause 3, apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

4 CPF 22: Overview of installation profiles

CPF 22 consists of one communication profile as specified in IEC 61784-1.

The installation requirements for CP 22/1 (AUTBUS) are specified in Annex A.

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[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

5 Installation profile conventions

The numbering of the clauses and subclauses in the annex of this document corresponds to the numbering of IEC 61918 main clauses and subclauses.

The annex clauses and subclauses of this document supplement, modify, or replace the respective clauses and subclauses in IEC 61918.

Where there is no corresponding subclause of IEC 61918 in the normative annex in this 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.

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)clause apply.

If in a (sub)clause it is written “Not applicable”, then the corresponding IEC 61918 (sub)clause does not apply.

If in a (sub)clause it is written “*Addition:*”, then the corresponding IEC 61918 (sub)clause applies with the additions written in the profile.

If in a (sub)clause it is written “*Replacement:*”, then the text provided in the profile replaces the text of the corresponding IEC 61918 (sub)clause.

NOTE A replacement can also comprise additions.

If in a (sub)clause it is written “*Modification:*”, then the corresponding IEC 61918 (sub)clause applies with the modifications written in the profile.

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.

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 stated[3] as either

Compliance with IEC 61784-5-22:—[4] for CP 22/m <name> or

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.

NOTE The name may be the name of the profile, for example AUTBUS.

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.

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

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