

# SLOVENSKI STANDARD oSIST prEN IEC 61784-5-19:2022

01-junij-2022

## Industrijska komunikacijska omrežja - Profili - 5-19. del: Inštalacija procesnih vodil - Inštalacijski profili za CPF 19

Industrial communication networks - Profiles - Part 5-19: Installation of fieldbuses - Installation profiles for CPF 19

Industrielle Kommunikationsnetze - Profile - Teil 5-19; Feldbusinstallation - Installationsprofile für die Kommunikationsprofilfamilie 19

Réseaux de communication industriels - Profils - Partie 5-19: Installation des bus de terrain - Profils d'installation pour CPF 19

Ta slovenski standard je istoveten Z:ai/catpre NtlEC 61784-5-19:2022

d6da-4eec-9bb7-8afa7e734a43/osist-pren-iec-61784-5-

19-2022

ICS:

25.040.40 Merjenje in krmiljenje Industrial process

industrijskih postopkov measurement and control

35.100.40 Transportni sloj Transport layer

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## iTeh STANDARD **PREVIEW** (standards.iteh.ai)

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PROJECT NUMBER: IEC 61784-5-19 ED2

DATE OF CIRCULATION:



### 65C/1159/CDV

### COMMITTEE DRAFT FOR VOTE (CDV)

CLOSING DATE FOR VOTING:

	2022-03-25		2022-06-17	
	SUPERSEDES DOCUME	ENTS:		
	65C/1115/CD, 65C	:/1136/CC		
IEC SC 65C : INDUSTRIAL NETWORKS				
SECRETARIAT:		SECRETARY:		
France		Ms Valérie DEMASSIEUX		
OF INTEREST TO THE FOLLOWING COMMITTEES: SC 22G,TC 57,SC 121A  Teh STA		PROPOSED HORIZON	TAL STANDARD:	
		Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.		
FUNCTIONS CONCERNED:				
☐ EMC ☐ ENVIRO	DNMENT RE	Quality Assuran	NCE SAFETY	
SUBMITTED FOR CENELEC PARALLEL V	mandard	NOT SUBMITTED F	OR CENELEC PARALLEL VOTING	
Attention IEC-CENELEC parallel voting				
The attention of IEC National Committees members of 61784-5-19:2022 CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting ards. 1teh. ai/catalog/standards/sist/80c51bbf-d6da-4eec-9bb7-8afa7e734a43/osist-pren-iec-61784-5-				
The CENELEC members are invited to vote through the CENELEC online voting system.				
This document is still under study and su	bject to change. It sh	ould not be used for	reference purposes.	
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TITLE:				
Industrial communication networks - Profiles - Part 5-19: Installation of fieldbuses - Installation profiles for CPF 19				
PROPOSED STABILITY DATE: 2028				
NOTE FROM TC/SC OFFICERS:				

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### 196 INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### INDUSTRIAL COMMUNICATION NETWORKS - PROFILES -

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### Part 5-19: Installation of fieldbuses - Installation profiles for CPF 19

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### **FOREWORD**

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- 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.
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- 237 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.
- 239 IEC 61784-5-19 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:—.
- 244 This second edition cancels and replaces the first edition published in 2013. This edition 245 constitutes a technical revision.
- This edition includes the following significant technical changes with respect to the previous edition:
- a) addition of new installation profiles CP19/3 and CP19/4 in subclause 4;
- b) In Annex B Table B.4 is changed and Figure B.1 and Figure B.2 are deleted;
- c) Annex C is new installation profiles for CP19/3 and related references are added;

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- d) Annex D is new installation profiles for CP19/4 and related references are added. 251
- The text of this International Standard is based on the following documents: 252

Draft	Report on voting
XX/XX/FDIS	XX/XX/RVD

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Full information on the voting for the approval of this International Standard can be found in 254 the report on voting indicated in the above table. 255

The language used for the development of this International Standard is English. 256

257 258

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,

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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.

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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

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

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replaced by a revised edition, or

reconfirmed.

withdrawn,

amended.

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

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### 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 standard 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 standard, see IEC 61158-1.

Each CP installation profile is specified in a separate annex of this standard. 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 standard are defined in Clause 5.

The provision of the installation profiles in one standard for each CPF (for example IEC 61784-5-19 for CPF 19), allows readers to work with standards of a convenient size.

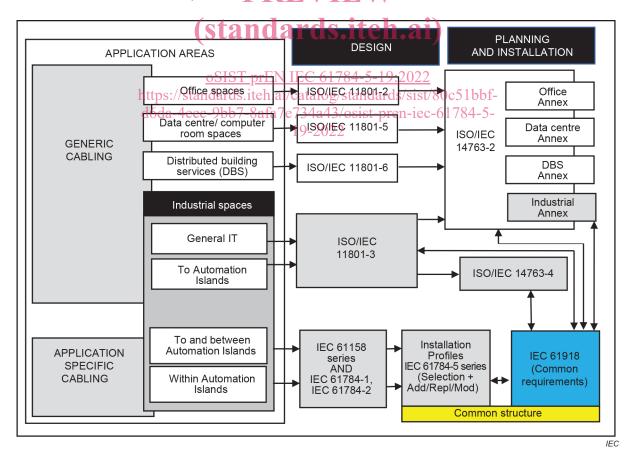


Figure 1 - Standards relationships

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INDUSTRIAL COMMUNICATION NETWORKS -299 PROFILES -300 301 Part 5-19: Installation of fieldbuses -302 Installation profiles for CPF 19 303 304 Scope 305 This part of IEC 61784-5 specifies the installation profiles for CPF 19 (MECHATROLINK™¹). 306 The installation profiles are specified in the annexes. These annexes are read in conjunction 307 with IEC 61918:2018 and IEC 61918:2018/AMD1:—. 308 Normative references 309 2 310 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 311 cited applies. For undated references, the latest edition of the referenced document (including 312 any amendments) applies. 313 IEC 61918:2018, Industrial communication networks – Installation of communication networks 314 in industrial premises 315 IEC 61918:2018/AMD1:—, Amendment 1 Industrial communication networks – Installation of 316 communication networks in industrial premises<sup>2</sup> 317 318 The normative references of SEC 61918:2018,1 Clause 92,0 and IEC 61918:2018/AMD1:—, Clause 2, apply. 319 https://standards.iteh.ai/catalog/standards/sist/80c51bbfd6da-4eec-9bb7-8afa7e734a43/osist-pren-iec-61784-5-NOTE For profile specific normative references, see Clause A.2. 320 Terms, definitions and abbreviated terms 321 For the purposes of this document, the terms, definitions and abbreviated terms given in 322 323 IEC 61918:2018, Clause 3, IEC 61918:2018/AMD1:—, Clause 3, and the Annexes, Clause 3, apply. 324 ISO and IEC maintain terminology databases for use in standardization at the following 325 addresses: 326 IEC Electropedia: available at https://www.electropedia.org/ 327 ISO Online browsing platform: available at https://www.iso.org/obp 328

NOTE For profile specific terms, definition and abbreviated terms see Clauses A.3, B.3, C.3 and D.3 respectively.

MECHATROLINK™ and Σ-LINK™ II are trade names of YASKAWA ELECTRIC CORPORATION. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of the trade names holder or any of its products. Compliance to this profile does not require use of the trade names. Use of the trade name requires permission of the trade name holder.

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

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### 4 CPF19: Overview of installation profiles

- 331 CPF 19 consists of four Communication Profiles as specified in IEC 61784-1 and IEC 61784-2.
- The installation requirements for CP 19/1 (MECHATROLINK™-II) are specified in Annex A.
- The installation requirements for CP 19/2 (MECHATROLINK™-III) are specified in Annex B.
- The installation requirements for CP 19/3 (∑-LINK<sup>TM</sup> II) are specified in Annex C.
- 335 The installation requirements for CP 19/4 (MECHATROLINK™-4) are specified in Annex D.

### 5 Installation profile conventions

- The numbering of the clauses and subclauses in the annexes of this standard corresponds to
- the numbering of IEC 61918 main clauses and subclauses.
- 339 The annex clauses and subclauses of this standard supplement, modify, or replace the
- respective clauses and subclauses in IEC 61918.
- Where there is no corresponding subclause of IEC 61918 in the normative annexes in this
- standard, the subclause of IEC 61918 applies without modification.
- The annex heading letter represents the installation profile assigned in Clause 4. The annex
- 344 heading number shall represent the corresponding numbering of IEC 61918.
- 345 EXAMPLE "Subclause B.4.4" in IEC 61784-5-3 means that CP 3/2 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. Iteh.ai/catalog/standards/sist/80c51bbf-d6da-4eec-9bb7-8afa7e734a43/osist-pren-iec-61784-5-
- 348 If all subclauses of a (sub)clause are omitted, then the corresponding IEC 61918 (sub)clause
- 349 applies.

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- 350 If in a (sub)clause it is written "Not applicable.", then the corresponding
- 351 IEC 61918 (sub)clause does not apply.
- 352 If in a (sub)clause it is written "Addition:", then the corresponding IEC 61918 (sub)clause
- applies with the additions written in the profile.
- 354 If in a (sub)clause it is written "Replacement:", then the text provided in the profile replaces
- 355 the text of the corresponding IEC 61918 (sub)clause.
- 356 NOTE A replacement can also comprise additions.
- 357 If in a (sub)clause it is written "Modification:", then the corresponding IEC 61918 (sub)clause
- applies with the modifications written in the profile.
- 359 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
- 361 (sub)clause x becomes valid as declared and all the other corresponding
- 362 IEC 61918 (sub)clauses apply.

### Conformance to installation profiles

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- Each installation profile within this standard includes part of 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 standard shall be stated 3 as either
- Compliance with IEC 61784-5-19: -4 for CP 19/m <name> or Compliance with IEC 61784-5-19 (Ed.2.0) for CP 19/m<name>
- where the name within the angle brackets < > is optional and the angle brackets are not to be included. The m within CP 19/m shall be replaced by the profile number 1 to 4.
- NOTE The name may be the name of the profile, for example MECHATROLINK-II, MECHATROLINK-III, Σ-LINK II or MECHATROLINK-4.
- 374 If the name is a trade name then the permission of the trade name holder shall be required.
- 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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In accordance with ISO/IEC Directives.

<sup>&</sup>lt;sup>4</sup> The date should not be used when the edition number is used.

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379 380	Annex A (normative)	
381 382 383	CP 19/1 (MECHATROLINK-II) specific installation profile	
384	A.1 Installation profile scope	
385	Addition:	
386 387	This standard specifies the installation profile for Communication Profile CP 19 (MECHATROLINK-II). The CP 19/1 is specified in IEC 61784-1.	/1
388	A.2 Normative references	
389	Addition:	
390 391	TIA-485-A, Electrical Characteristics of Generators and Receivers for Use in Balanced Digit Multipoint Systems  iTeh STANDARD	al
392	A.3 Installation profile terms, definitions, and abbreviated terms	
393	A.3.1 Terms and definitions	
394	Addition: (standards.iteh.ai)	
395	A.3.1.1 <u>oSIST prEN IEC 61784-5-19:2022</u>	
396 397	C1 master https://standards.iteh.ai/catalog/standards/sist/80c51bbf-master device which initiates cyclic data transfer with slave devices 1784-5-19-2022	
398	A.3.1.2	
399 400	C2 master master device which initiates message data exchange with other devices	
401	A.3.1.3	
402 403 404	master device that controls the data transfer on the CP 19/1 network and initiates the media acces of the slaves by sending messages and that constitutes the interface to the control system	ss
405	A.3.1.4	
406 407	slave device that accesses the medium only after it has been initiated by the preceding master	
408	A.3.2 Abbreviated terms	
409	Addition:	
	M-II MECHATROLINK-II	
	USB Universal Serial Bus	