SLOVENSKI STANDARD

SIST EN 62453-315:2010/A1:2018

01-februar-2018

Specifikacija vmesnika orodja procesne naprave - 315. del: Integracija komunikacijskih profilov - IEC 61784 CPF 15 - Dopolnilo 1 (IEC 62453-315:2009/A1:2016)

Field device tool (FDT) interface specification - Part 315: Communication profile integration - IEC 61784 CPF 15 (IEC 62453-315:2009/A1:2016)

Field Device Tool (FDT)-Schnittstellenspezifikation - Teil 315: Integration von Kommunikationsprofilen - Kommunikationsprofilfamilie (CPF) 15 nach IEC 61784 (IEC 62453-315:2009/A1:2016)

Spécification des interfaces des outils des dispositifs de terrain (FDT) - Partie 315: Intégration des profils de communication - IEC 61784 CPF 15 (IEC 62453-315:2009/A1:2016)

Ta slovenski standard je istoveten z: **EN 62453-315:2009/A1:2017**

ICS:

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.240.50	Uporabniške rešitve IT v industriji	IT applications in industry

SIST EN 62453-315:2010/A1:2018 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62453-315:2009/A1

November 2017

ICS 25.040.40; 35.100.05; 35.110

English Version

Field device tool (FDT) interface specification - Part 315: Communication profile integration - IEC 61784 CPF 15 (IEC 62453-315:2009/A1:2016)

Spécification des interfaces des outils des dispositifs de terrain (FDT) - Partie 315: Intégration des profils de communication - IEC 61784 CPF 15 (IEC 62453-315:2009/A1:2016)

Field Device Tool (FDT)-Schnittstellenspezifikation - Teil 315: Integration von Kommunikationsprofilen - Kommunikationsprofilfamilie (CPF) 15 nach IEC 61784 (IEC 62453-315:2009/A1:2016)

This amendment A1 modifies the European Standard EN 62453-315:2009; it was approved by CENELEC on 2016-07-22. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN 62453-315:2009/A1:2017 E

European foreword

The text of document 65E/336/CDV, future IEC 62453-315:2009/A1, prepared by SC 65E "Devices and integration in enterprise systems" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62453-315:2009/A1:2017.

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	(dop)	2018-05-24
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2020-11-24

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 62453-315:2009/A1:2016 was approved by CENELEC as a European Standard without any modification.

IEC 62453-315

Edition 1.0 2016-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Field device tool (FDT) interface specification –
Part 315: Communication profile integration – IEC 61784 CPF 15

Spécification des interfaces des outils des dispositifs de terrain (FDT) –
Partie 315: Intégration des profils de communication – IEC 61784 CPF 15

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ICS 25.040.40; 35.100.05; 35.110

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FOREWORD

This amendment has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation.

The text of this amendment is based on the following documents:

CDV	Report on voting
65E/336/CDV	65E/395A/RVC

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

The committee has decided that the contents of this amendment and the base 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,
- replaced by a revised edition, or
- amended.

4 Bus category

Add, after Table 1, the following new text and tables.

Modbus TCP is using the following unique identifiers in physicalLayer members within PhysicalLayer data type (see Table 103):

Table 103 – Physical layer identifiers for Modbus TCP

Identifier value	Description
307DD810-C010-11DB-90E7-0002B3ECDCBE	100BaseTXFD (default for Media Type Copper)
307DD812-C010-11DB-90E7-0002B3ECDCBE	100BaseFXFD (default for Media Type Fiber Optic)
307DD813-C010-11DB-90E7-0002B3ECDCBE	100BaseLX10
307DD816-C010-11DB-90E7-0002B3ECDCBE	1000BaseXFD
307DD818-C010-11DB-90E7-0002B3ECDCBE	1000BaseLXFD
307DD81A-C010-11DB-90E7-0002B3ECDCBE	1000BaseSXFD
307DD81C-C010-11DB-90E7-0002B3ECDCBE	1000BaseTFD
307DD81D-C010-11DB-90E7-0002B3ECDCBE	10GbaseFX
307DD81E-C010-11DB-90E7-0002B3ECDCBE	10GbaseLX4
307DD81F-C010-11DB-90E7-0002B3ECDCBE	10GBaseR
307DD820-C010-11DB-90E7-0002B3ECDCBE	10GbaseER
307DD821-C010-11DB-90E7-0002B3ECDCBE	10GbaseLR
307DD822-C010-11DB-90E7-0002B3ECDCBE	10GbaseSR
307DD823-C010-11DB-90E7-0002B3ECDCBE	10GbaseW
307DD824-C010-11DB-90E7-0002B3ECDCBE	10GbaseEW
307DD824-C010-11DB-90E7-0002B3ECDCBE	10GbaseLW
307DD825-C010-11DB-90E7-0002B3ECDCBE	10GbaseSW
307DD826-C010-11DB-90E7-0002B3ECDCBE	10GbaseCX4
307DD827-C010-11DB-90E7-0002B3ECDCBE	2BaseTL
307DD828-C010-11DB-90E7-0002B3ECDCBE	10PassTS
307DD829-C010-11DB-90E7-0002B3ECDCBE	100BaseBX10D
307DD82A-C010-11DB-90E7-0002B3ECDCBE	100BaseBX10U
307DD82B-C010-11DB-90E7-0002B3ECDCBE	100BaseLX10
307DD82C-C010-11DB-90E7-0002B3ECDCBE	1000BaseBX10D
307DD82D-C010-11DB-90E7-0002B3ECDCBE	1000BaseBX10U
307DD82F-C010-11DB-90E7-0002B3ECDCBE	1000BaseLX10
307DD830-C010-11DB-90E7-0002B3ECDCBE	1000BasePX10D
307DD831-C010-11DB-90E7-0002B3ECDCBE	1000BasePX10U
307DD832-C010-11DB-90E7-0002B3ECDCBE	1000BasePX20D
307DD833-C010-11DB-90E7-0002B3ECDCBE	1000BasePX20U
307DD834-C010-11DB-90E7-0002B3ECDCBE	10GBaseT or 100BasePXFD
307DD835-C010-11DB-90E7-0002B3ECDCBE	10GBaseLRM
307DD836-C010-11DB-90E7-0002B3ECDCBE	1000BaseKX
307DD837-C010-11DB-90E7-0002B3ECDCBE	1000BaseKX4
307DD838-C010-11DB-90E7-0002B3ECDCBE	1000BaseKR
307DD839-C010-11DB-90E7-0002B3ECDCBE	10G1GBasePRXD1

Identifier value	Description
307DD83A-C010-11DB-90E7-0002B3ECDCBE	10G1GBasePXRD2
307DD83B-C010-11DB-90E7-0002B3ECDCBE	10G1GBasePXRD3
307DD83C-C010-11DB-90E7-0002B3ECDCBE	10G1GBasePRXU1
307DD83D-C010-11DB-90E7-0002B3ECDCBE	10G1GBasePXRU2
307DD83E-C010-11DB-90E7-0002B3ECDCBE	10G1GBasePXRU3
307DD83F-C010-11DB-90E7-0002B3ECDCBE	10GBasePRD1
307DD840-C010-11DB-90E7-0002B3ECDCBE	10GBasePRD2
307DD841-C010-11DB-90E7-0002B3ECDCBE	10GBasePRD3
307DD842-C010-11DB-90E7-0002B3ECDCBE	10GBasePRU1
307DD843-C010-11DB-90E7-0002B3ECDCBE	10GBasePRU3
307DD844-C010-11DB-90E7-0002B3ECDCBE	40GbaseKR4
307DD845-C010-11DB-90E7-0002B3ECDCBE	40GbaseCR4
307DD845-C010-11DB-90E7-0002B3ECDCBE	40GbaseSR4
307DD846-C010-11DB-90E7-0002B3ECDCBE	40GbaseFR
307DD847-C010-11DB-90E7-0002B3ECDCBE	40GbaseLR4
307DD848-C010-11DB-90E7-0002B3ECDCBE	100GbaseCR10
307DD849-C010-11DB-90E7-0002B3ECDCBE	100GbaseSR10
307DD84A-C010-11DB-90E7-0002B3ECDCBE	100GbaseLR4
307DD84B-C010-11DB-90E7-0002B3ECDCBE	100GbaseER4
307DD84C-C010-11DB-90E7-0002B3ECDCBE	100BasePXFD
307DD84D-C010-11DB-90E7-0002B3ECDCBE	Radio Communication
307DD84E-C010-11DB-90E7-0002B3ECDCBE	Speed of 100 Mbit/s (and more) and full duplexity

Modbus Serial is using the following unique identifiers in physicalLayer members within PhysicalLayer data type (see Table 104):

Table 104 – Physical layer identifiers for Modbus Serial

Identifier value	Description
C0458028-F240-45A5-8664-70DC84FDC6FE	RS-232
3BF008DC-5A44-4220-8C3E-3C46A589A0B4	RS-422
036D1591-387B-11D4-86E1-00E0987270B9	RS-485

The DataLinkLayer property is not applicable for Modbus and has to be set to null.

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