EESTI STANDARD EVS-EN 62453-309:2017

Field device tool (FDT) interface specification - Part 309: Communication profile integration - IEC 61784 CPF 9

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ICS 25.040.40, 35.100.05, 35.110

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Field device tool (FDT) interface specification - Part 309: Communication profile integration - IEC 61784 CPF 9 (IEC 62453-309:2016)

Spécification des interfaces des outils des dispositifs de terrain (FDT) - Partie 309: Intégration des profils de communication - CPF 9 de l'IEC 61784 (IEC 62453-309:2016)

Field Device Tool (FDT)-Schnittstellenspezifikation - Teil 309: Integration von Kommunikationsprofilen - Kommunikationsprofilfamilie (CPF) 9 nach IEC 61784 (IEC 62453-309:2016)

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European Committee for Electrotechnical Standardization
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European foreword

The text of document 65E/336/CDV, future edition 1 of IEC 62453-309:2016, 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 62453-309:2017.

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2018-06-08
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2020-12-08

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Annex ZA
(normative)
Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 61158-5-20	-	Industrial communication networks - Fieldbus specifications - Part 5-20: Application layer service definition - Type 20 elements	EN 61158-5-20	-
IEC 61158-6-20	-	Industrial communication networks - Fieldbus specifications - Part 6-20: Application layer protocol specification - Type 20 elements	EN 61158-6-20	-
IEC 61784-1	-	Industrial communication networks - Profiles -- Part 1: Fieldbus profiles	EN 61784-1	-
IEC 62453-1	-	Field Device Tool (FDT) interface specification -- Part 1: Overwiew and guidance	EN 62453-1	-
IEC 62453-2	-	Field Device Tool (FDT) Interface Specification - Part 2: Concepts and detailed Description	EN 62453-2	-

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INTRODUCTION

This part of IEC 62453 is an interface specification for developers of FDT (Field Device Tool) components for function control and data access within a client/server architecture. The specification is a result of an analysis and design process to develop standard interfaces to facilitate the development of servers and clients by multiple vendors that need to interoperate seamlessly.

With the integration of fieldbusses into control systems, there are a few other tasks which need to be performed. In addition to fieldbus- and device-specific tools, there is a need to integrate these tools into higher-level system-wide planning or engineering tools. In particular, for use in extensive and heterogeneous control systems, typically in the area of the process industry, the unambiguous definition of engineering interfaces that are easy to use for all those involved is of great importance.

A device-specific software component, called DTM (Device Type Manager), is supplied by the field device manufacturer with its device. The DTM is integrated into engineering tools via the FDT interfaces defined in this specification. The approach to integration is in general open for all kind of fieldbusses and thus meets the requirements for integrating different kinds of devices into heterogeneous control systems.

Figure 1 shows how IEC 62453-309 is aligned in the structure of the IEC 62453 series.

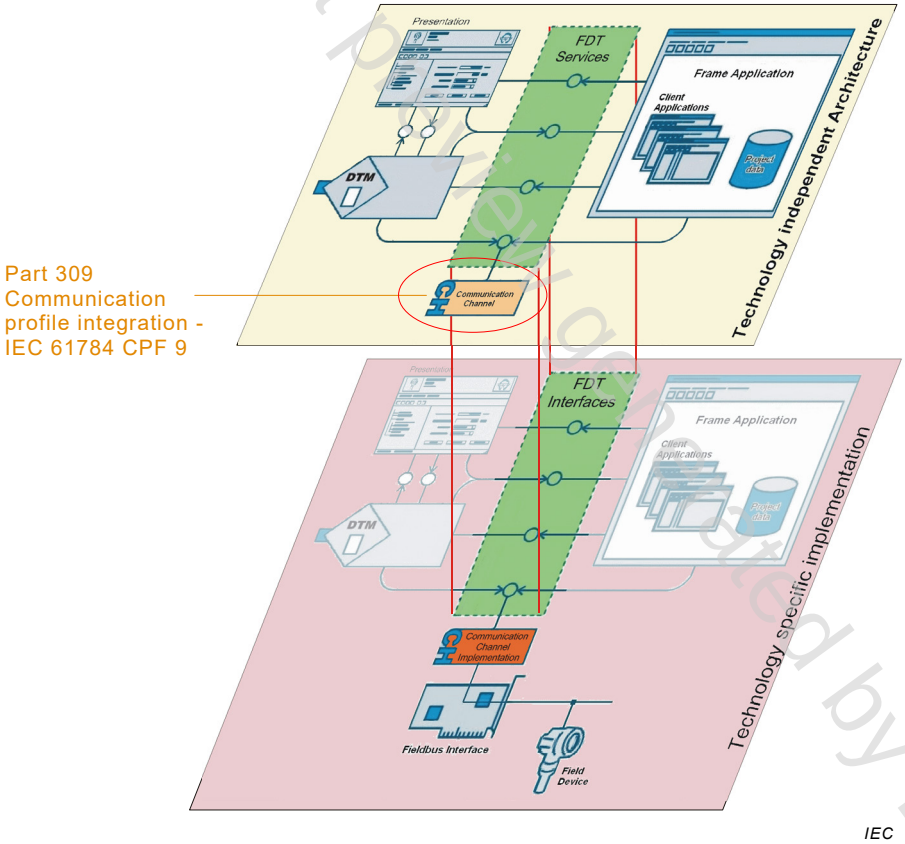

Figure 1 – Part 309 of the IEC 62453 series

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