

TNI	Špecifikácia rozhrania softvérových nástrojov na prácu s prevádzkovými prístrojmi (FDT) Časť 41: Profil integrácie objektového modelu Spoločný objektový model	TNI CLC/TR IEC 62453-41
		18 4012

Field device tool (FDT) interface specification - Part 41: Object model integration profile - Common object model

Táto technická normalizačná informácia obsahuje anglickú verziu CLC/TR IEC 62453-41:2019,
IEC/TR 62453-41:2016.

This Technical standard information includes the English version of CLC/TR IEC 62453-41:2019,
IEC/TR 62453-41:2016.

Táto technická normalizačná informácia bola oznámená vo Vestníku ÚNMS SR č. 07/19

Oznámením tohto dokumentu sa ruší
TNI CLC/TR 62453-41 (18 4012) z apríla 2010

129168

TECHNICAL REPORT**RAPPORT TECHNIQUE****TECHNISCHER BERICHT****CLC/TR IEC 62453-41**

April 2019

ICS 25.040.40; 35.100.05; 35.110

Supersedes CLC/TR IEC 62453-41:2009

English Version

**Field device tool (FDT) interface specification - Part 41: Object
model integration profile - Common object model
(IEC TR 62453-41:2016)**

Spécification des interfaces des outils des dispositifs de
terrain (FDT) - Partie 41: Profil d'intégration des modèles
objet - Modèle objet commun
(IEC TR 62453-41:2016)

Field Device Tool (FDT)-Schnittstellenspezifikation - Teil 41:
Profil zur Integration des Objektmodells - Allgemeines
Objektmodell (COM)
(IEC TR 62453-41:2016)

This Technical Report was approved by CENELEC on 2019-03-18.

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

CLC/TR IEC 62453-41:2019 (E)**European foreword**

This document (CLC/TR IEC 62453-41:2019) consists of the text of the IEC TR 62453-41:2016 prepared by 65E: "Devices and integration in enterprise systems", of IEC technical committee 65: "Industrial process measurement, control and automation".

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with their corresponding European publications**

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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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61784	series	Industrial communication networks - Profiles	EN 61784	series
IEC 62453-1	2016	Field device tool (FDT) interface specification - Part 1: Overview and guidance	EN 62453-1	2017
IEC 62453-2	2016	Field device tool (FDT) interface specification - Part 2: Concepts and detailed description	EN 62453-2	2017



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Part 41: Object model integration profile – Common object model**





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Part 41: Object model integration profile – Common object model**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 25.040.40; 35.100.05; 35.110

ISBN 978-2-8322-3337-5

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIELD DEVICE TOOL (FDT) INTERFACE SPECIFICATION –

Part 41: Object model integration profile – Common object model

FOREWORD

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IEC TR 62453-41, which is a technical report, has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation:

This second edition cancels and replaces the first edition published in 2009, and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) correction of specification for bus master configuration;
- b) correction of specification for propagation of changes;
- c) correction of description of DTM services for online operation.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
65E/437/DTR	65E/485/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62453 series, under the general title *Field Device Tool (FDT) interface specification*, can be found on the IEC website.

The committee has decided that the contents of this 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.

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

IMPORTANT – The 'colour inside' logo on the cover page of this publication 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.

INTRODUCTION

This Part of IEC 62453, which is a technical report, 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 fieldbuses 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 fieldbuses and thus meets the requirements for integrating different kinds of devices into heterogeneous control systems.

Figure 1 shows how IEC TR 62453-41 is incorporated in the structure of the IEC 62453 series.

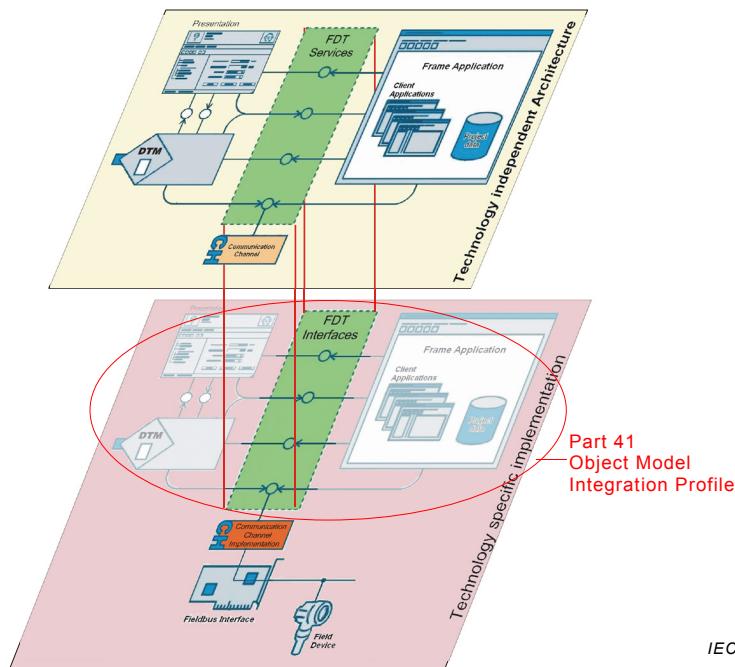


Figure 1 – Part 41 of the IEC 62453 series

FIELD DEVICE TOOL (FDT) INTERFACE SPECIFICATION –

Part 41: Object model integration profile – Common object model

1 Scope

This part of IEC 62453, which is a technical report, defines how the common FDT principles are implemented based on the Microsoft¹ COM technology, including the object behavior and object interaction via COM interfaces.

This part specifies the technology-specific implementation of the protocol-specific functionality and communication services.

This part of IEC 62453 is informative, however when this part is applied its requirements need to be implemented as specified.

This part specifies FDT version 1.2.1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61784 (all parts), *Industrial communication networks – Profiles*

IEC 62453-1:—2, *Field Device Tool (FDT) interface specification – Part 1: Overview and guidance*

IEC 62453-2:—2, *Field Device Tool (FDT) interface specification – Part 2: Concepts and detailed description*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ See Annex I.

² To be published concurrently with this technical report.