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GB/T 29618.61-2017

**Field device tool (FDT) interface specification -- Part 61: Device
type manager (DTM) style guide for common object model**

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Foreword

GB/T 29618 "Field Device Tool (FDT) Interface Specification" is divided into the following sections.

- Part 1. Overview and guidance;
- Part 2. Concepts and detailed descriptions;
- Part 301. Communication profiles Integrated FF fieldbus specification;
- Part 302. Communication regulations Integrated General Industrial Agreements;
- Part 303-1. Communication profiles - Integrated PROFIBUS fieldbus specification;
- Section 303-2. Communication profiles Integrated PROFINET I/O interface specification;
- Part 306. Communication profiles Integrated INTERBUS fieldbus specification;
- Part 309. Communication profiles - Integrated HART fieldbus specification;
- Part 315. Communication profiles Integrated MODBUS fieldbus specification;
- Part 41. Object model profiles Integrated generic object model;
- Part 501. Communication of common object models - Implementation of FF fieldbus specification;
- Part 502. Communication of common object models - General industrial protocols;
- Part 503-1. Communication of common object models - Implementation of PROFIBUS fieldbus specification;
- Part 503-2. Communication of general purpose object models - PROFINET input and output interface specification;

- Part 506. Communication of common object models - InterBUS fieldbus specification;
- Part 509. Communication of common object models - Implementation of HART fieldbus specification;
- Part 515. Communication of common object models - Implementation of MODBUS fieldbus specification;

Part 61. Device type manager style guidelines for generic object models.

This part is part 61 of GB/T 29618.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to the use of IEC /T R62453-61..2009 "Field Device Tool (FDT) Interface Specification Part 61.

Common Object Model Device Type Manager Style Guide.

According to GB/T 1.1-2009, this part of the IEC /T R62453-61..2009 made the following editorial changes.

--- correct the original section in Appendix B, Chapter 2, the section number is wrong.

This part is made by the China Machinery Industry Federation.

This part is headed by the National Industrial Process Measurement Control and Automation Standardization Technical Committee (SAC/TC124).

This part of the drafting unit. Southwest University, Machinery Industry Instrument Integrated Technology and Economic Research Institute, Chongqing Sichuan Instrument Automation Instrumentation shares

Ltd., China Automation Instrument Co., Ltd., China's four instrumentation group, Suzhou, the United States and Software Co., Ltd., He Youxun (Shanghai) Co.,

Automation System Trading Co., Ltd., Fujian Shunchang Hongrun Precision Instrument Co., Ltd.

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Introduction

This section is about DTM user interface design specifications, which are designed for functional control and data in the client/server architecture

Access to the FDT component developer. This section is intended to develop a standard interface to facilitate seamless interoperability between components developed by different manufacturers.

DTM (Device Type Manager) is a software component of a particular device that will be DTM software and equipment are provided to the user. The DTM is integrated into the engineering tool via the FDT interface defined in this section. The set

The method is open to all fieldbuses, thus satisfying the integration of different devices in heterogeneous control systems.

In order to ensure consistent management of all plant control and automation technology, in the entire life cycle of automation, the fieldbus, equipment and

It is necessary for the subsystem to perform a wide range of seamless, comprehensive integration work. So the integration requires a uniform component of the device

Appearance.

GB/T 29618.61 in GB/T 29618 in the structure shown in Figure 1.

Figure 1 Part 61 of the GB/T 29618 series

Field Device Tool (FDT) interface specification

Part 61. Device types for generic object models

Manager Style Guide

1 Scope

This section presents some of the guidelines and specifications for the user interface of the device DTM and its functional implementation. These guidelines and specifications are FDT

Specification, which provides a clear and consistent user interface to the user through the DTM device in the system.

2 normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article

Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 29618.1-2013 Field Device Tool (FDT) Interface Specification Part 1. Overview and Guidance (IEC 62453-1.

2009, IDT)

GB/T 29618.2-2013 Field Device Tool (FDT) Interface Specification Part 2. Concepts and Descriptions (IEC 62453-2.

2009, IDT)

GB/T 29618.41-2013 Field Device Tool (FDT) Interface Specification Part 41. Object Model Integration Specification - Generic Pair

Model (IEC 62453-41..2009, IDT)

ISO /IEC 19501..2005 Information Technology Open Distributed Processing Unified Modeling Language Version 1.4.2 [Informationtech-nology-OpenDistributedProcessing-UnifiedModelingLanguage (UML) Version1.4.2]

3.1 Terms and definitions

GB/T 29618.1-2013, GB/T 29618.2-2013, GB/T 29618.41-2013 and ISO /IEC 19501..2005

The terms and definitions are applicable to this document.

3.1.1

Screen reader screamreader

A software program that provides users with additional output (such as text output to sound, blind typing).

3.1.2

Tree navigation navigationtree

A graphical user interface element that displays navigation information through a tree structure.

3.2 Symbols and abbreviations

GB/T 29618.1-2013, GB/T 29618.2-2013 and GB/T 29618.41-2013, as well as the following abbreviations

For use in this document.

GUI GraphicalUserInterface Graphical user interface

SUI StandardUserInterface (aGUllayoutdefinedinthisdocument) standard user interface