

ICS 25.040

CCS N 10



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 29618.306-2017

**Field device tool (FDT) interface specification -- Part 306:
Communication profile integration -- INTERBUS**

Issued on: July 31, 2017

Implemented on: February 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

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Foreword

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

- Part 1. Overview and guidelines;
- Part 2. Concept and detailed description;
- Part 301. Communication profile integrated FF field bus specification;
- Part 302. Communication rules integrated universal industrial agreement;
- Part 306. Communication rules integrated INTERBUS fieldbus specification;
- Part 309. Communication profile integrated addressable remote sensor high-speed channel;
- Part 315. Communication line regulation integrated MODBUS field bus specification;
- Part 41. Object model lineage integration common object model;
- Part 42. Object model rules integrated common language infrastructure;
- Part 515. Common object model of communication to achieve MODBUS field bus specification
- Part 51-10. Common Object Model Communication to achieve FF Fieldbus Specification;
- Part 51-20. Common object model of communication to achieve universal industrial agreement;
- Part 51-60. General object model communication to achieve INTERBUS fieldbus specification;
- Part 51-90. Common object model of communication to achieve IEC 61784CPF9;
- Part 51-150. Common object model of communication to achieve IEC 61784CPF15;
- Part 52-10. General language infrastructure to achieve communication FF fieldbus

specification;

--- Part 52-20. Common language infrastructure to achieve universal industrial communication protocol;

--- Part 52-31. Communication of the common language infrastructure IEC 61784CP3/1 and CP3/2;

--- Part 52-32. Communication of common language infrastructure IEC 61784CP3/4, CP3/5 and CP3/6;

--- Part 52-90. Communication of common language infrastructure IEC 61784CPF9;

--- Part 52-150 of the General Language Infrastructure Communication IEC 61784CPF15;

--- Part 61. Generic object model device type manager style guide;

--- Part 62. Field Device Tool (FDT) style guide.

This section GB/T 29618 Part 306.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with IEC 62453-306.2009 Field Device Tool (FDT) Interface Specification Part 306. Pass

Letter line regulations integrated INTERBUS fieldbus specification. "

This part is proposed by China Machinery Industry Federation.

This part of the National Industrial Process Measurement Control and Automation Standardization Technical Committee (SAC/TC124) centralized.

This part of the drafting unit. Zhengzhou Municipal Engineering Survey and Design Institute, Southwest University, He Youxin (Shanghai) Automation System Trading Co., Ltd.

Company, Chongqing Chuan Yi Automation Co., Ltd., Shanghai Automation Instrumentation Co., Ltd., Rockwell Automation (China) Co., Ltd., Shi-resistant

Germany Electric (China) Co., Ltd., Zhejiang University Institute of Intelligent Systems and Controls, the United States Software Co., Ltd., Suzhou, machinery and industrial instrumentation

Integrated Technology and Economy Institute.

Introduction

This section is for the FDT (FieldDeviceTool) component for functional control and data access in the client/server architecture

Developer's interface specification. This section is intended to develop the results of

standard interfaces, analysis and design processes used to facilitate multiple manufacturing Seamless interoperability between business-developed components.

The integration of the fieldbus into the control system requires some additional tasks. In addition to fieldbus related tools and equipment

In addition to the related tools, these tools need to be integrated into higher-level, system-wide planning and engineering tools. In particular, in order to

Widely used and heterogeneous control systems, which are typically found in the process industry to facilitate the engineering interface used by these systems

Clear definition is very important.

The DTM (Device Type Manager, DeviceTypeManger) is a software component of a particular device that is sent by the device manufacturer to the DTM

Software and equipment are provided to users. The DTM is integrated into the engineering tools via the FDT interface as defined in this specification. Often, the episode

The approach is open to all fieldbuses and therefore meets the requirement to integrate different types of devices in heterogeneous control systems.

This section GB/T 29618 in the structure shown in Figure 1.

Figure 1 GB/T 29618 in this section

Field Device Tool (FDT) Interface Specification

Part 306. Communication regulation integration

INTERBUS fieldbus specification

1 Scope

Communication Routines Series 6 (commonly referred to as INTERBUS) is a Type 8, IEC 61158-3-8, IEC 61158-4-8,

IEC 61158-5-8 and IEC 61158-6-8 based on the definition of communication profiles. Basic rules CP6/1 (INTERBUS) and CP6/3

(INTERBUS smallest subset) is defined in GB/T 18268.1.

This section GB/T 29618 provides INTERBUS technology integrated into the FDT standard (GB/T 29618.2) in the information.

This section specifies the communications and other services.

This section does not include FDT norms, nor does it make any changes to the FDT specification.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

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

Specification for field device tool (FDT) interface - Part 1. Overview and guidance (IEC 62453-1).

2009, IDT)

Field device tool (FDT) interface specification Part 2. Concept and detailed description (IEC 62453-2).

2009, IDT)

IEC 61158-2 Industrial Communication Networks - Fieldbus Specification Part 2. Physical Layer Specifications and Services Definition (Industrial

communicationnetworks-Fieldbusspecifications-Part

2.Physicallayerspecificationandservicedef-

inition

IEC 61158-3-8 Industrial Communication Networks Fieldbus Specification Part 3-8. Data Link Layer Service Definition Type 8 yuan

Industrialcommunicationnetworks-Fieldbusspecifications-Part 3-8.Data-linklayerservicedefinition-Type8elements)

IEC 61158-4-8 Industrial Communication Networks Fieldbus Specification Part 4-8 Data Link Layer Protocol Specifications Type 8 yuan

Industrialcommunicationnetworks-Fieldbusspecifications-Part 4-8.Data-linklayerprotocol specification-Type8elements)

IEC 61158-5-8 Industrial Communication Networks Fieldbus Specification Part 5-8. Application Layer Services Definition Type 8 Elements

(Industrialcommunicationnetworks-Fieldbusspecifications-Part

5-8Applicationlayerservicedefi-

nition-Type8elements)

IEC 61158-6-8 Industrial Communication Networks Fieldbus Networks Part 6-8. Application Layer Protocol Specifications Type 8 Elements