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

GB/T 29618.5232-2018

**Field device tool (FDT) interface specification -- Part 5232:
Communication implementation for common language
infrastructure -- IEC 61784 CP 3/4, CP 3/5 and CP 3/6**

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Foreword

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

- Part 1. Overview and guidelines;
- Part 2. Concepts and detailed descriptions;
- Part 301. Communication profile integration FF fieldbus specification;
- Part 302. Communication Profile Integration General Industrial Agreement;
- Part 306. Communication profile integration INTERBUS fieldbus specification;
- Part 309. Communication profile integration of addressable remote sensor high-speed channel;
- Part 315. Communication profile integration MODBUS fieldbus specification;
- Part 41. Object model profile integration common object model;
- Part 42. Object model profile integration common language infrastructure;
- Part 515. General object model communication implementation MODBUS fieldbus specification;
- Part 511. Communication of the general object model to implement the FF fieldbus specification;
- Part 512. Common object model communication implementation of general industrial protocols;
- Part 516. Communication of the universal object model to implement the INTERBUS fieldbus specification;
- Part 519. Communication implementation of the generic object model IEC 61784CPF9;
- Part 5115. Communication implementation of the general object model IEC 61784CPF15;

- Part 521. Communication of the common language infrastructure to implement the FF fieldbus specification;
- Part 522. Common language infrastructure communication implementation of general industrial protocols;
- Part 5231. Communication implementation of common language infrastructure IEC 61784CP3/1 and CP3/2;
- Part 5232. Communication implementation of common language infrastructure IEC 61784CP3/4, CP3/5 and CP3/6;
- Part 529. Communication implementation of the common language infrastructure IEC 61784CPF9;
- Part 5215. Communication implementation of the common language infrastructure IEC 61784CPF15;
- Part 61. Device Type Manager Style Guide for the Common Object Model;
- Part 62. Field Device Tool (FDT) Style Guide.

This part is part 5232 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 IEC /T R62453-52-32..2017 "Field Device Tool (FDT) Interface Specification No. 52-32

Part. Communication of the common language infrastructure implements IEC 61784CP3/4, CP3/5 and CP3/6.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

--- GB/T 16657.2-2008 Industrial Communication Network Fieldbus Specification Part 2. Physical Layer Specification and Service Definition

(IEC 61158-2.2007, IDT);

---GB/T 20540.1-2006 Measurement and control of digital data communication Industrial control system with fieldbus type 3. PRO-

FIBUS Specification Part 1. Overview and Guidelines (IEC 61158-1 Type 3..2003, MOD);

---GB/T 20540.2-2006 Measurement and control of digital data communication Industrial control systems with fieldbus type 3. PRO-

FIBUS Specification Part 2. Physical Layer Specification and Service Definition (IEC 61158-2 Type 3.2003, MOD);

---GB/T 20540.3-2006 Measurement and Control Digital Data Communication Industrial Control System Fieldbus Type 3. PRO-

FIBUS specification Part 3. Data link layer service definition (IEC 61158-3 Type 3.2003, MOD);

---GB/T 20540.4-2006 Measurement and control of digital data communication Industrial control systems with fieldbus type 3. PRO-

FIBUS specification Part 4. Data link layer protocol specification (IEC 61158-4 Type 3.2003, MOD);

---GB/T 20540.5-2006 Measurement and control of digital data communication Industrial control systems with fieldbus type 3. PRO-

FIBUS specification Part 5. Application layer service definition (IEC 61158-5 Type 3.2003, MOD);

---GB/T 20540.6-2006 Measurement and control of digital data communication Industrial control systems with fieldbus type 3. PRO-

FIBUS specification Part 6. Application layer protocol specification (IEC 61158-6 Type 3.2003, MOD);

---GB /Z 20541.1-2006 Measuring and controlling digital data communication Fieldbus type 10 for industrial control systems.

PROFINET specification Part 1. Application layer service definition (IEC 61158-5 TYPE 10.2003, MOD);

---GB /Z 20541.2-2006 Measurement and control of digital data communication industry control system fieldbus type 10.

PROFINET specification Part 2. Application layer protocol specification (IEC 61158-6 TYPE 10.2003, MOD);

---GB/T 25105.1-2014 Industrial Communication Network Fieldbus Specification Type 10. PROFINETIO Specification No. 1

Part. Application layer service definition (IEC 61158-5-10.2010, MOD);

---GB/T 25105.2-2014 Industrial Communication Network Fieldbus Specification Type 10. PROFINETIO Specification 2

Part. Application Layer Protocol Specification (IEC 61158-6-10.2010, MOD);

---GB /Z 26157.1-2010 Measurement and Control Digital Data Communication Industrial Control System Fieldbus Type 2. Con-

trolNet and EtherNet/IP Specification Part 1. General Description (IEC 61158.2003 TYPE 2,

MOD);

---GB /Z 26157.2-2010 Measurement and control of digital data communication Industrial control system fieldbus type 2. Con-

trolNet and EtherNet/IP Specification Part 2. Physical Layer and Media (IEC 61158-2.2003 TYPE 2, MOD);

---GB /Z 26157.3-2010 Measurement and Control Digital Data Communication Industrial Control System Fieldbus Type 2. Con-

trolNet and EtherNet/IP Specification Part 3. Data Link Layer (IEC 61158.2003 TYPE 2, MOD);

---GB /Z 26157.4-2010 Measurement and control of digital data communication Industrial control system fieldbus type 2. Con-

trolNet and EtherNet/IP Specification Part 4. Network Layer and Transport Layer (IEC 61158.2003 TYPE 2, MOD);

---GB /Z 26157.5-2010 Measurement and Control Digital Data Communication Industrial Control System Fieldbus Type 2. Con-

trolNet and EtherNet/IP Specification Part 5. Data Management (IEC 61158.2003 TYPE 2, MOD);

---GB /Z 26157.6-2010 Measurement and Control Digital Data Communication Industrial Control System Fieldbus Type 2. Con-

trolNet and EtherNet/IP specification Part 6. Object model (IEC 61158.2003 TYPE 2, MOD);

---GB /Z 26157.7-2010 Measurement and Control Digital Data Communication Industrial Control System Fieldbus Type 2. Con-

trolNet and EtherNet/IP Specification Part 7. Equipment Profiles (IEC 61158.2003 TYPE 2, MOD);

---GB /Z 26157.8-2010 Measurement and Control Digital Data Communication Industrial Control System Fieldbus Type 2. Con-

trolNet and EtherNet/IP Specification Part 8. Electronic Data Sheet (IEC 61158.2003 TYPE 2, MOD);

---GB /Z 26157.9-2010 Measurement and control of digital data communication Industrial control system fieldbus type 2. Con-

trolNet and EtherNet/IP specification Part 9. Station management (IEC 61158.2003 TYPE 2, MOD);

---GB /Z 26157.10-2010 Measurement and control of digital data communication Industrial