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**NATIONAL STANDARD OF THE
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Field device integration - Part 2: Client

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules for Standardization Documents" drafting.

This document is part 2 of GB/T 41771 "Field Device Integration". GB/T 41771 has issued the following parts.

- Part 1.Overview;
- Part 2.Client;
- Part 3.Server;
- Part 4.Package;
- Part 5.Information Model.

This document is equivalent to IEC 62769-2:2021 "Field Device Integration (FDI) Part 2.FDI Client".

The following minimal editorial changes have been made to this document.

- Change the name of this document to "Field Device Integration Part 2.Client".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

The field device integration series standards are important technical standards to guide related activities such as industrial process measurement and control. GB/T 41771 aims to Establish the normative criteria applicable to equipment integration, which is proposed to be

composed of 15 parts.

--- Part 1.Overview. The purpose is to define the concept and overview of field device integration specifications.

--- Part 2.Client. The purpose is to specify the relevant requirements for field device integration clients.

--- Part 3.Server. The purpose is to specify the relevant requirements for field device integration servers.

--- Part 4.Package. The purpose is to build a field device integration package model that provides the integration of devices, network components and communication servers into All elements required by the system.

--- Part 5.Information Model. The purpose is to specify the topology of the automation system, used to describe the equipment and communication of the automation system Connect Network.

--- Part 6.Technology Mapping. The purpose is to specify the technical mapping of the concepts described in field device integration.

--- Part 7.Communication equipment. The purpose is to specify the elements that implement the communication capability.

--- Part 8.General protocol of the profile. The purpose is to specify the required communication servers, gateways and devices described by the field device integration package

Details of the general protocol.

--- Part 9.Profile Foundation Fieldbus H1.The purpose is to specify the field device integrated communication of H1 fieldbus technology regulation.

--- Part 10.Profile Foundation Fieldbus HSE. The purpose is to specify the field device integration communication of HSE fieldbus technology

letter rules.

--- Part 11.Profile PROFIBUS. The purpose is to specify the field device integration communication profile of PROFIBUS technology.

--- Part 12.Profile PROFINET. The purpose is to specify the field device integration communication profile of PROFINET technology.

--- Part 13.Profile HART and WirelessHART. The purpose is to specify the HART and WirelessHART technology

Field device integration communication profile.

--- Part 14.Profile Modbus-RTU. The purpose is to specify the field device integration communication profile of Modbus-RTU technology.

--- Part 15.Profile ISA100.The purpose is to specify the field device integration communication profile of ISA100 technology.

Field Device Integration Part 2.Client Side

1 Scope

This document specifies the requirements for FDI clients. The entire FDI architecture is shown in Figure 1.The architectural components within the scope of this document are in the

Indicated in dark color in the figure.

This document applies to the integration of field devices in automation systems.

Figure 1 FDI Architecture Diagram

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

GB/T 35673-2017 Industrial Communication Network Network and System Security System Security Requirements and Security Levels (IEC 62443-3-3.

2013, IDT)