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Field device integration - Part 4: Package

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Table of Contents

Preface	
Introduction	
1 Scope	1
2 Normative references	1
3 Terms and Definitions, Abbreviations and Conventions	2
3.1 Terms and Definitions	2
3.2 Abbreviations	3
3.3 Convention	3
4 FDI Package Model	3
4.1 Overview	3
4.2 FDI Package Element	4
4.3 FDI packet type	6
5 FDI package implementation	8
5.1 Packaging technology	8
5.2 Using Open Packaging Conventions	8
5.3 FDI Package Part	9
6 FDI Package Version Control	15
6.1 Version Scheme	15
6.2 Version control elements	15

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 4 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 62769-4:2021 "Field Device Integration (FDI) Part 4.FDI Package".

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

--- Change the name of the standard to "Field Device Integration Part 4.Package".

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 specify the concept and overview of field device integration specifications.

--- Part 2.Client, the purpose is to specify the relevant requirements of field device integration client.

--- Part 3.Server, the purpose is to specify the relevant requirements of field device integration server.

--- Part 4.Package, the purpose is to build a field device integration package model, providing the integration of devices, network components and communication servers into the system

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.Technical 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 to achieve communication capabilities.

--- Part 8.General protocol of the profile, the purpose is to specify the communication server, gateway and equipment required 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 PROFIBUS technology field device integration communication profile.

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

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

Field device integration communication profile.

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

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

Field Device Integration Part 4.Packages

1 Scope

This document specifies the FDI package. The entire FDI architecture is shown in Figure 1.Architectural components within the scope of this document are represented in the diagrams with

Indicated by dark colors.

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.

oflanguages-Part 1.Alpha-2)

documentformat-Part 1.PDF1.7)

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