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

GB/T 22270.4-2015

**Industrial automation systems and integration -- Service
interface for testing applications -- Part 4: Device capability
profile template**

工业自动化系统与集成 测试应用的服务接口 第4部分：设备能力专规模板
(English Translation)

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References

Foreword

GB/T 22270 "Industrial automation systems and integration testing of application service interface" or has plans to release the following sections.

- Part 1. General;
- Part 2. Resource management service interface;
- Part 3. Virtual device service interface;
- Part 4. Device capability designed scale plate;
- Part 5. Application service interface;
- Part 6. Conformance test methods, standards and reporting.

This part of GB/Part 4 T 22270 of.

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

This section uses the translation method identical with ISO 20242-4:2011 "Industrial automation systems and integration testing Application Service Interface Part 4. Device capability designed scale plate. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

GB/T 19659.1-2005 Industrial automation systems and integration - Open systems application integration framework - Part 1. General Reference Description (ISO 15745-1:2003, IDT) GB/T 22270.1-2008 Industrial automation systems and integration testing of application service interface - Part 1. Overview (ISO 20242-1:2005, IDT) GB/T 22270.3-2015 Industrial automation systems and integration testing of application service interface - Part 3. Virtual device service Interface (ISO 20242-3:2011, IDT) this part made the following editorial changes.

- 5.1 in FIG. 2, "DeviceSpecificCCD" corrected to "DeviceSpecificDCD";
 - A.2.1 Figure A.1 in the second line "GenericCCD" corrected to "GenericDCD";
- GenericCCD and GenericDCD Diamond arrow aggregation corrections hollow;

--- B.2.1 in Figure B.1, "GenericCCD" and "GenericDCD" polymerization diamond hollow arrow relations corrections.

This part is proposed by China Machinery Industry Federation.

This part of the automation systems and integration by the National Standardization Technical Committee (SAC/TC159) centralized.

This in part by the Beijing Institute of Machinery Industry Automation is responsible for drafting.

Introduction

To promote integrated automation and measuring apparatus and its peripheral components and computer applications, according to the automobile industry and the needs of manufacturers, specially formulated GB/T 22270. This standard defines an automated application environment, application environment measured under the environment of automation and measurement applications or device drivers the move to create rules and running.

Development of GB/T 22270 The main purpose is to enable users to.

- Limited by the computer's operating system;
- Limited by the device connection technology (device interface/network);
- From equipment suppliers restrictions;
- At a given computer platform, the connected device can verify the device driver, and confirm that the operation of the device driver;
- Not restrict future development of the technology and equipment.

GB/T 22270 without the development of new equipment or the use of specialized interface technology (network). This standard equipment package and a communication interface Together, and similar to other compatible devices in the specified applications.

Industrial automation systems and integration Test Application Service Interface Part 4.
Device capability designed scale plate

1 Scope

GB/T 22270 in this section defines the formatting, syntax and semantic rules used to describe.

- Equipment and ability to XMLschema coordinator described;
- Facilities XML language to describe the configuration.

Note: This section GB/T 22270 configuration does not involve coordination, configuration will be

described in other parts of the GB/T 22270 of.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

ISO 15745-1 Industrial automation systems and integration - Open systems application integration framework - Part 1. Generic reference description
(Industrial automation systems and integration - Open systems application integration framework - Part 1. Generic reference description) ISO 20242-1 Industrial automation systems and integration testing of application service interface - Part 1. Overview
(Industrial automation systems and integration - Service interface for testing applications - Part 1. Overview) ISO 20242-3 Industrial automation systems and integration testing of application service interface - Part 3. Virtual device service interface
(Industrial automation systems and integration - Service interface for testing applications - Part 3. Virtual device service interface)

3 Terms and Definitions

ISO 20242-1 and ISO 20242-3 define the following terms and definitions apply to this document.

Communication object to access to a worth of existing objects through a communication function to read and write.

[GB/T 22270.1-2008, the definition 2.3] 3.2 Coordinator with a particular interface program, is responsible for the application access to one or more device drivers, and manage real-time applications, synchronization, and event.

[GB/T 22270.1-2008, the definition 2.4] 3.3 Coordinator capability descriptions coordinator capability description Having a predetermined format (such as structure and syntax) text file that contains the coordinator capability information.