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

GB/T 22270.2-2012

**Industrial automation systems and integration -- Service
interface for testing applications -- Part 2: Resource
management service interface**

工业自动化系统与集成 测试应用的服务接口 第2部分：资源管理服务接口

(English Translation)

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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/T 22270 Part 2.

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

This section uses the translation method identical with ISO 20242-2:2010 "Industrial automation systems and integration testing Application Service Interface Part 2. Resource management service interface "(in English).

Consistency correspondence between this part of international documents and normative references of our files are as follows.

GB/T 22270.1 Industrial automation systems and integration testing of application service interface - Part 1. General (GB/T 22270.1-2008, ISO 20242-1:2005, IDT) Technical content and composition and structure of this part of ISO 20242-2:2010 "Industrial automation systems and integration testing of application service access Port Part 2. Resource management service interface "(in English) is consistent.

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.

--- Is not confined to computer operating systems;

--- Without device connection technology (device interface/network) limitations;

--- From equipment suppliers limitations;

--- 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 does not involve development or special interface technology (network) application of new equipment. The standard communication interface device, its closure Fit together, and similar to other compatible devices in the specified applications.

Industrial automation systems and integration Test Application Service Interface Part 2.
Resource management service interface

1 Scope

This section GB/T 22270 defines a service interface, which provides a common access point for service management and operation of resources, Resources used by the computer operating system and peripheral equipment, including computer-aided test applications used by the slot on the dedicated hardware support.

Resource management service interface should make computing platform adapter external services can be universal and independent of the operating system and its communications interface.

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 20242-1 Industrial automation systems and integration testing of application service interface - Part 1. General (Industrial automationsystemsandintegration-Serviceinterfacefortestingapplications-Part 1. Overview)

3 Terms and Definitions

As defined in ISO 20242-1 and the following terms and definitions apply to this document.

Device Driver Provided with GB/T 22270 specialized software modules interface, with access to physical devices by calling the platform adapter services.

Platform Adapter Provided with GB/T 22270 This section defines the resource management service interface software module, the package including the operating system, hardware and Computer peripheral equipment, including internet.

4 Symbols and Abbreviations

The following symbols and abbreviations apply to this document.

CNF, Cnf. confirmation (service primitive) [Confirm (serviceprimitive)] IND, Ind. Indicates (service primitives) [Indication (serviceprimitive)] REQ, Req. Request (service primitives) [Request (serviceprimitive)] RMS. Resource Management Service

(ResourceManagementService) RMSI. Resource Management Service Interface
(ResourceManagementServiceInterface) RSP, Rsp. Response (service primitives)
[Response (serviceprimitive)] SAP. service access point (ServiceAccessPoint)