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

GB/T 22270.1-2008

**Industrial automation systems and integration -- Service
interface for testing applications -- Part 1: Overview**

工业自动化系统与集成 测试应用的服务接口 第1部分: 概述

(English Translation)

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Foreword

GB/T 22270 (ISO 20242) "Industrial automation systems and integration testing of application service interface" consists of the following six components.

Part 1. General;

Part 2. Resource management service interface;

Part 3. Virtual device service interface;

Part 4. special service capabilities scale plate;

Part 5. Application service interface;

Part 6. Conformance test methods, standards and reporting.

This part of GB/T 22270 Part 1.

This part identical with ISO 20242-1:2005 "Industrial automation systems and integration testing of application service interface - Part 1. Overview Said "(in English).

Technical content and composition and structure of this part of ISO 20242-1:2005 is consistent.

The Standard made the following editorial changes.

--- The "ISO 20242-1" to "GB/T 22270 Part 1" or "GB/T 22270 in this section";

--- Remove the ISO 20242-1:2005 Foreword and in accordance with the requirements of national standards for the preparation redrafting the foreword;

--- In this section has been transformed into national standards with international standards

to national standards No number of international standards unconverted reserved.

This part of the Annex A, Annex B, Annex C is informative appendices.

This part is proposed by China Machinery Industry Federation.

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

This section is drafted. Beijing Machinery Industry Automation Research Institute.

Introduction

To promote integrated automation and measuring apparatus and its peripheral components and computer applications, should the international automobile industry and the needs of manufacturers, a special Set GB/T 22270. This standard defines an automated/measurement applications environment of device drivers to create rules and their operation.

The main purpose of the development of GB/T 22270 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 the development of new equipment and specialized interface technology (network) applications. The standard communication interface device, its closure Fit together, and similar to other compatible devices in the specified applications.

GB/T 22270.1-2008/ISO 20242-1:2005 Industrial automation systems and integration Test Application Service Interface Part 1. Overview

1 Scope

This part of the standard and its application GB/T 22270 in computer-aided test environment are outlined.

2 Terms and definitions

This section uses the following terms and definitions.

To help users perform specific tasks and design resources.

Note: In this section, the application can perform any tasks needed to run the computer-aided testing station, but there is a special requirement that the needs and peripherals Maintain communications.

Interface to communicate with the coordinator.

Read and write through a communication function to access the value of an existing object.

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.

Having a predetermined format (such as structure, syntax) text file that contains the virtual device capabilities information.

With GB/T 22270 special program interface, with access to physical devices by calling the platform adapter services.

class indicates the device function description keywords.

Note: a device driver in the device function, is an instance of this interface.

Through the peripheral interface data transfer processing program.

GB/T 22270.1-2008/ISO 20242-1:2005