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

GB/T 17645.1-2008

Replacing GB/T 17645.1-2001

**Industrial automation systems and integration -- Parts library --
Part 1: Overview and fundamental principles**

工业自动化系统与集成 零件库 第1部分: 综述与基本原理

(English Translation)

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References

Foreword

GB/T 17645 "Industrial automation systems and integration Parts library" is a multi-part standard, each part published separately.

GB/T 17645 belongs to various parts according to the functions are divided into a plurality of sub-series. Concept description logic resources to achieve resource description methods consistency Test, view exchange protocol concerning standardization dictionary content,

including.

- Part 10 - Part 19 defines the concept description;
- Part 20 - Part 29 specifies the logical resources;
- Part 30 - Part 39 specifies the resource;
- Part 40 - Part 49 specifies the method described;
- Part 50 - Part 59 specifies conformance testing;
- Part 100 - Section 199 specifies the view exchange protocol;
- Part 500 - Section 599 provides for the standardization of content related to the dictionary.

GB/T 17645 "Industrial automation systems and integration Parts Library" has now published the following nine sections.

- Part 1. Overview and fundamental principles;
- Part 20. Logical resource model logic expression;
- Part 24. Logical resource model logic vendor library;
- Part 25. Logical resource suppliers with aggregate values and explicit logic model libraries of content;
- Part 26. Logical resource information provider identification;
- Part 31. resource geometric programming interface;
- Part 42. Description methods part family construction methodology;
- Section 101. View exchange protocol parameter programming geometric view exchange protocol;
- Part 102. View exchange protocol in line with GB/T 16656 regulations consistent view exchange protocol.

This section is GB/T Part 117 645, gives GB/T 17645 series of standards review, the basic principles of their organizations structure.

This part identical with ISO 13584-1:2001 "Industrial automation systems and integration - Parts library - Part 1. Overview and fundamental principles Reason "(in English). This section on the technical content of ISO 13584-1:2001 is consistent, evolving according to ISO 13584 and only GB/T 1.1-2000 rules on content and made some editorial changes.

This section (as amended) and ISO 13584-1:2001 as compared to the presence of the technical differences are as follows.

- Increasing the foreword;

--- Introduction to ISO content was updated, it becomes Appendix C;

--- Revised the definitions of the terms of the product;

--- Retained 6.5;

--- Increased 6.7;

English --- increase in the index;

Several parts --- ISO 13584 already been converted to the equivalent of China's national standards. GB/T 17645 all EXPRESS Description and automatically generated by STEP development tools, documentation and EXPRESS-G diagram international standard code remains unchanged, in the title and body of the paper, replace the original International Standard is only with the national standard number.

This Part replaces GB/T 17645.1-2001 "Industrial automation systems and integration - Parts library - Part 1. Overview and fundamental principles Reason. " this section compared with the GB/T 17645.1-2001 The main changes are as follows.

GB/T 17645.1-2008/ISO 13584-1:2001

--- Re-write the foreword;

--- Revised ISO foreword, to turn it into Appendix C;

--- Revised the definitions of the terms of the product;

--- Increased 6.7;

--- Made editorial changes;

--- English index increases.

Appendix A of this section is normative appendix, Appendix B, Appendix C is informative appendix.

This part is proposed by China Machinery Industry Federation.

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

This section drafted by. China National Institute of Standardization.

Introduction

GB/T 17645 is a parts library data representation and technical standards for computer interpretable exchange, its purpose is to provide independent any use of the data in the library system applications and can describe neutral mechanism parts library data. This description of the nature that it does not Only for the part exchange files, and also to achieve the shared library database data base.

GB/T 17645 is a multi-part standard, each part published separately. GB/T 16656 each part in turn belong One of the following sub-series. Concept description logic resources to achieve resource description methods, conformance testing, protocol and exchange views about the dictionary Standardized content. This section (GB/T 17645.1) of GB/T 17645 for each sub-series has been described and gives the GB/T 17645 Review its structure.

GB/T 17645.1-2008/ISO 13584-1:2001 Industrial automation systems and integration Library Part 1. Overview and fundamental principles

1 Scope

GB/T 17645 specifies the expression library of information, as well as the parts library data to exchange, use and update the necessary mechanisms and set Righteousness. This exchange may use library parts of the product life cycle (including product design, manufacture, use, maintenance and disposal) related Place between different computer systems and the environment. This standard specifies the general structure of the library system, rather than complete, detailed, the library system can be implemented.

This section gives the GB/T 17645 overview of its structure.

Within the following scope of this section.

--- To obtain information model library data definitions;

Resource definition --- parts library data processing required.

2 Normative references

The following documents contain provisions which, through reference GB/T 17645 in this section constitute provisions of this section. For dated reference documents Member, subsequent amendments or revisions do not apply to this section, however, according to whether the parties are encouraged to study this part of the agreement You can use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 16656.1 Industrial automation systems and integration - Product data representation and the first part of the exchange. Overview and fundamental principles (GB/T 16656.1-2008, ISO 10303-1:1994, MOD)

3.1 Terms and Definitions

This section uses the following terms and definitions.

3.1.1

Specification defines only by the local parts, determining the definition of organization does not provide the actual parts.