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

GB/T 19892.2-2007

**Batch control -- Part 2: Data structures and guidelines for
languages**

批控制第2部分:数据结构和语言指南

(English Translation)

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References

Foreword

GB/T 19892 "Batch Control" is divided into three sections.

--- Part 1. Models and Terminology;

--- Part 2. Data structure and language guide;

--- Part 3. General and site prescription model and expression.

This section GB/T 19892 Part 2.

This section identical with the international standard IEC 61512-2:2001 "Batch Control Part 2. Data Structures and Language Guide" (in English).

For ease of use, the original standard made the following editorial changes.

a) Remove the foreword of international standards, in accordance with the provisions of GB/T 1.1 rewrite the foreword of this section;

b) Where "IEC 61512" where to "GB/T 19892";

c) "this International Standard" be replaced by "this section";

d) with a decimal point "." instead of a comma as the decimal point, "." this part of the Appendix A and Appendix B are normative appendix.

This part of the Appendix C, Appendix D and Appendix E is an informative annex.

This part is proposed by China Machinery Industry Federation.

This part of the measurement and control of the National Standardization Technical Committee of industrial processes.

This part mainly drafted by. Head of Instrumentation Technology and Economy Institute, Shanghai Institute of Industrial Automation Instrumentation.

Introduction

GB/T 19892.1-2007 provides models and terminology applicable to batch control. GB/T 19892.2-2007 discusses the data structure Structure and language guides, in which.

--- Data model defined in Chapter 4 discusses the data structure, the data model is more

accurately represented by the GB/T 19892.1 the model and the relationship between objects and concepts discussed;

Relational table information exchange --- defined in Chapter 5 also discusses the data structure;

--- Prescription drawing method as defined in Chapter 6 discusses the language.

Intended use of the data model for the preparation of soft component interface specification provides a starting point, these soft parts about GB/T 19892.1 all subsets. As an integrated object model, data model discussed GB/T 19892.1 everything, but it does not assume or exclude any special system architecture or information exchange. This model is not clear division between functional systems.

Part 5 of this chapter defines a special method of exchanging the selected data. The relational table as a method of information exchange is liable because Within the limits of the range of management information, which.

--- Widely applicable techniques;

--- Can be converted into other technologies;

--- Is sufficient;

--- Other content with consistent standards.

Neither the provisions of this part of the method of transmitting a variety of information, nor does it attempt to identify all information that may be exchanged. The future may be a provision these additional methods as an alternative method for exchanging data.

Part 6 provides a graphical language used to describe the prescription of symbols and rules. Prescription is a central feature of batch control, you can place Manage complex things, but there is no way to describe it ideal for any situation. For example, a simple form is likely to be some A simple case of the most appropriate prescription form. This section provides procedures and controls at the main prescription equation applies to most complex matters Order a drawing method.

Although this section is mainly used in the batch process, but also to other types of processes of great value.

GB/T 19892.2-2007/IEC 61512-2:2001 Batch Control Part 2. Data Structures and Language Guide

1 Scope

This section GB/T 19892 specifies the batch control data model describes the process industry applications and batch control to simplify the achievement of the scope Data communications within and between structures, as well as showing prescription Language

Guide. See Appendix A for use when using this section UML (Unified Modeling Language) Description of Symbols, another B confluence Chapter 5 on all SQL (Structured Query Language) See Appendix.

2 Normative references

The following documents contain provisions which, through reference GB/T 19892 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 2900.56-2002 Electrotechnical terminology automatic control (IEC 60050-351:1998, IDT) GB/T 6988.6-1993 control system menu map drawing (eqv IEC 60848. 1988) GB/T 15969.3-1995 programmable controllers Part 3. programming languages (idt IEC 61131-3:1993) GB/T 19892.1-2005 Batch Control Part 1. Models and Terminology (IEC 61512-1:1997, IDT) ISO/IEC 9075:1992 Information processing systems - Database language --- Integrity Enhanced SQL (Structured Query Language)

3 Terms and Definitions

The following terms and definitions as well as GB/T 19892.1 expressly in those terms and definitions, except where explicitly stated , Are applicable to GB/T 19892 in this section. In addition, the use of GB/T 2900.56-2002 of terms and definitions as in accordance with.

A graphic symbol used to represent the distribution of resources and program elements prescription deallocation rule package.

Gallery prescription entity.

A list of predefined string and its associated value.

Batch-related information exchange between database tables for system.

Predetermined connection between two different objects (e.g., the connection between the entities and the prescription prescribing entities or the conversion between) one of the object.

GB/T 19892.2-2007/IEC 61512-2:2001