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

GB/T 44275.11-2024

**Industrial automation systems and integration - Open technical
dictionaries and their application to master data - Part 11:
Guidelines for the formulation of terminology**

工业自动化系统与集成 开放技术字典及其在主数据中的应用 第 11 部分：术语制
定指南

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is part 11 of GB/T 44275 "Industrial Automation Systems and Integration Open Technology Dictionary and Its Application in Master Data" GB/T 44275 has published the following parts.

- Part 1: Overview and basic principles;
- Part 2: Terminology;
- Part 11: Guidelines for the development of terminology;
- Part 13: Identification of concepts and terms;
- Part 20: Maintenance procedures for the open technical dictionary.

This document is modified to adopt ISO 22745-11:2010 "Industrial Automation Systems and Integration Open Technology Dictionary and its Application in Master Data" Part 11:

Guidance for the development of terminology.

Compared with ISO 22745-11:2010, this document deletes Annex B of ISO 22745-11:2010.

Introduction

The descriptive technical system specified in GB/T 44275 includes.

- Open Technical Dictionary (OTD);
- Identification Guide (IG);
- Master data;
- Identification mode;
- Procedures for maintaining OTD;
- Interface for querying information from OTD, including terms related to a given concept.

GB/T 44275 "Industrial Automation Systems and Integration Open Technology Dictionary and Its Application in Master Data" is intended to consist of the following parts.

- Part 1: Overview and basic principles. The purpose is to explain the overall architecture, basic principles and Principles and basic concepts.
- Part 2: Terminology. The purpose is to provide the terms and vocabulary used in the GB/T 44275 series of standards.
- Part 10: Dictionary representation. The purpose is to provide a conceptual model of OTD for computer-to-computer exchange of OTD XML schema for the XML physical file.
- Part 11: Guidelines for the development of terminology. The purpose is to provide guidelines for the development of terminology and the definition of concepts in open technical dictionaries.
- Part 13: Identification of concepts and terms. The purpose is to identify concepts, terms, Definitions and image identification rules, and the syntax of identifiers.
- Part 14: Dictionary query interface. The purpose is to provide query interface definitions and web service bindings supported by OTD.
- Part 20: Maintenance procedures for open technical dictionaries. The purpose is to standardize the maintenance procedures, publication rules, changes and Change programs, add programs, and maintain organizational structures.
- Part 30: Identification Guide Representation. The purpose is to provide the conceptual model and exchange format of IG.
- Part 35: Querying feature data. The purpose is to provide a conceptual model and exchange format for querying feature data.

--- Part 40: Master data representation. The purpose is to provide a conceptual model and exchange format for master data.

--- Part 50: Registration of Open Technical Dictionaries. The purpose is to provide the structure and operate.

--- Part.200.Implementation guidance for incorporating master data into ISO 10303 product data. The purpose is to provide guidance on incorporating master data into ISO 10303 product data.

The general requirements for directory data are represented in the data set of the Application Protocol (AP).

--- Part 300: Master Data Guide. The purpose is to provide a common template for commonly used master data types.

OTD is a term defined and derived from consensus bodies such as ISO, IEC, and other organizations that have a consensus process for developing terminology.

OTD is a collection of terms, definitions, and images used to describe concepts such as individuals, organizations, locations, goods, and services.

In GB/T 44275, items are described by membership in a class and a set of attribute-value pairs.

OTD.

--- Allows attributes to be explicitly defined in ISO 10303;

--- Allowing information to be clearly defined and exchanged between multinational partners without loss of meaning;

---Supports database synchronization with minimal data mapping requirements;

---Provide transparent information flow between multiple information formats, especially between government and commercial systems;

---Provide timely and accurate data to support financial and accounting processes;

---Support cost-effective procurement;

---Support inventory management and rationalization;

---Provide commercial and intergovernmental affairs;

---Support multiple units of measurement and international currencies;

---Support multiple categories and multiple languages.

Any consensus organization can submit terms for inclusion in the OTD. GB/T 44275 does not establish a new process for standardizing terms.

An OTD will provide a globally unambiguous identifier for each concept and provide a reference to the original term (term, definition and image).

The OTD aims to link terms and definitions with the same semantic content and to cite the original source of each term and definition.

Duplicate existing standards and instead provide a comprehensive collection of terms for describing people, organizations, locations, goods, and services.

Although the process of harmonizing terminology is beyond the scope of GB/T 44275, the OTD can be used as a useful research tool to assist in the coordination of Coordination process, such as the coordination process between ISO, IEC and other standards.

The IG specifies which concepts are used and constrains which concepts are linked to each other. An example of the latter is when the IG specifies attributes that are linked to classes.

Additionally, where there are multiple terms, definitions and images for a concept, the IG specifies which terms, definitions and images are applicable.

Master data is data held by an organization that describes entities that are both independent and fundamental to the organization and that need to be referenced in order to be used.

Execute its business.

A directory represents master data in the form of attribute-value pairs.

For a more detailed overview of GB/T 44275, see GB/T 44275.1.

This document provides suggested guidelines for the development of cataloguing concept terms.

Note: Concept terms include terms, definitions and images.

Inclusion of a term or definition in an OTD does not require compliance with these guidelines.

The OTD provides a framework to ensure consistency and understandability of definitions. Terms that meet these guidelines will be noted in the OTD. This will support users in Run a search to filter terms that match this document.

The examples in this document are selected and simplified for ease of explanation. When converting to other languages, you may need to select other examples.

illustrate.

The guidance and examples for developing terminology in Chapter 7, the guidance and examples for developing definitions in Chapter 8, and the guidance and examples for developing terms in Chapter 10 are provided in Chapter 11.