

ICS 35.040
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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 18391.3-2026

Replacing GB/T 18391.3-2009

**Information technology - Metadata registries (MDR) - Part 3:
Metamodel for registry common facilities**

信息技术 元数据注册系统 (MDR) 第3部分: 注册系统公共设施元模型
(English Translation)

Issued on: February 27, 2026

Implemented on: September 1, 2026

Issued by: State Administration for Market Regulation

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 3 of GB/T 18391 "Metadata Registry System for Information Technology (MDR)", which has been published.

The following section.

---Part 1: Framework;

---Part 2: Classification;

---Part 3: Metamodel of Public Facilities in the Registration System;

---Part 4: Formation of Data Definitions;

---Part 5: Naming and Identification Principles;

---Part 6: Registration.

This document replaces GB/T 18391.3-2009 "Information Technology Metadata Registry System (MDR) Part 3: Registry System Metadata".

Compared with GB/T 18391.3-2009, the main technical changes in "Type and Basic Attributes" are as follows, except for structural adjustments and editorial changes.

---Added a metadata registry system modeling method (see Chapter 5).

---The content of Chapter 4 of GB/T 18391.3-2009 has been modified and supplemented, and then split into.

- Basic core packages (see Chapter 6);
- Identification package (see Chapter 7);
- Referencing and defining packages (see Chapter 8);
- Registration package (see Chapter 9);
- Categorized packages (see Chapter 10);
- Item mapping package (see Chapter 11).

This document is equivalent to ISO/IEC 11179-3:2023 "Information technology - Metadata registry system (MDR) - Part 3: Registry system".

"Public Facilities Meta-Model".

Please note that some content in this document may involve patents. The issuing

organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Information Technology Standardization Technical Committee (SAC/TC28).

Introduction

Data processing and electronic data interchange rely heavily on the accuracy, reliability, controllability, and...

Verifiability. A consensus between data providers and users regarding the meaning and representation of the data is a prerequisite for its correct and appropriate use and interpretation.

To foster this consensus, it is necessary to define several characteristics or attributes of the data. These characteristics of data are collectively referred to as "metadata," or...

"Data that describes data".

The attributes and related metadata of data elements can be standardized and recorded as registration items in a metadata registry (MDR). Metadata the registration system is used to store information about data elements and their associated concepts, including concepts such as "data element concept," "conceptual domain," and "value domain" (see...).

ISO/IEC 11179-31). Generally, the above are all referred to as "metadata items". This metadata is essential for clearly describing, recording, analyzing, and distributing...

Classes and data management are essential.

GB/T 18391 addresses the semantics of data processing, data representation, and the registration of these data descriptions. Through these descriptions, semantics can be obtained.

A precise understanding and a useful description of the data.

The purpose of GB/T 18391 is to promote.

- Standard description of data;
- A consistent understanding of data within and between organizations;
- Reuse and standardization of data across time, space, and application;
- Collaboration and standardization of data within and between organizations;
- Management of data description components;
- Reuse of data description components.

Each part of GB/T 18391 is designed to address one aspect of the aforementioned requirements.