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

GB/T 38000.1-2019

**Identification systems enabling unambiguous information
interchange -- Requirements -- Part 1: Principles and methods**

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Table of Contents

Foreword

1 Scope

2 Normative references

Foreword

GB/T 38000 is divided into the following sections.

--- Part 1. Principles and methods

This part is the first part of GB/T 38000.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to IEC 62507-1.2010 "Identification System Information Exchange Requirements Part 1. Principles and Methods".

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

---GB/T 2659-2000 World and region name codes (eqv ISO 3166-1.1997);

---GB/T 5094.2-2018 Industrial systems, devices and equipment and product structure principles and reference code Part 2.

Classification and classification code (IEC 81346-2.2009, IDT);

--- GB/T 16656.11-2010 Industrial automation systems and integrated products - Data presentation and exchange - Part 11

Method. EXPRESS Language Reference Manual (ISO 10303-11.2004, IDT);

---GB/T 17564.1-2011 Standard data element types and related classification modes for electrical projects Part 1. Definition of original

And method (IEC 61360-1.2009, IDT);

---GB/T 17710-2008 Data Processing Check Code System (ISO 7064.2003, IDT).

This part is proposed and managed by the National Technical Committee for the Construction of Electrical Information, Documentation and Graphic Symbol Standardization (SAC/TC27).

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1 Scope

This part of GB/T 38000 specifies the basic requirements of the object identification system (such as products, "projects", documents, etc., excluding humans

body). It focuses on setting an identifier for the object to facilitate reference to the object.

Does not involve the cause of the object classification and whether the verification object is the required object.

This section includes human readable and machine readable representations of identifiers for use in building identifiers and identifying codes.

This section also includes applications and their exchange requirements for identifiers in computer identifiable form that are compliant with the system.

Does not include physical file or transport format (syntax) specifications for information exchange between computers, and does not include physical media [such as text

Parts, barcodes, radio frequency identification (RFID), etc.], specifications and transmission formats for information exchange and marking of identification information on objects.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1988-1998 Seven-digit coded character set for information technology information exchange (ISO /IEC 646.1991, IDT)

Standard data element types and associated classification patterns for IEC 61360-1 electrical projects - Part 1. Definition principles and methods

(Standard data element types with associated classification scheme for electric components - Part 1.

Definitions - Principles and methods)

IEC 81346-2 Industrial systems, devices and equipment, and product structure principles and reference codes - Part 2. Classification of projects and

Classification code

(Industrialsystems,instalationsandequipmentandindustrialproducts-Structuring

Principlesandreferencedesignations-Part 2.Classificationofobjectsandcodesforclasses)

IEC 82045-1.2001 Document Management Part 1. Principles and Methods

(Documentmanagement-Part 1.

Principlesandmethods)

IEC 82045-2.2004 Document Management Part 2. Metadata Elements and Information

Reference Models (Documentmanagement-

Part 2. Metadataelementsandinformationreferencemodel)

ISO /IEC 6523-1 Structures for the identification of various parts of information technology organizations and organizations - Part 1. Identification of organization identification schemes

(Informationtechnology-Structurefortheidentificationoforganizationsandorganizationparts-

Part 1. Identificationoforganizationidentificationschemes)

ISO /IEC 15418 Information Technology Automatic Identification and Data Acquisition

Technology GS1 Application Identifier and ASCMH10 Data Label

Identification and maintenance

(Informationtechnology-Automaticidentificationanddatacapturetechniques-GS1Ap-

plicationidentifiersandASCMH10dataidentifiersandmaintenance)

ISO /IEC 15434 Information Technology High-Capacity Automatic Data Acquisition (ADC)

Media Syntax (Informationtechnology-

Automaticidentificationanddatacapturetechniques-Syntaxforhigh-capacityADCmedia)

ISO /IEC 15459-1 Information technology unique identifiers Part 1. Transport unit unique

identifiers (Informationtech-

nology-Uniqueidentifiers-Part 1.Uniidentifiersfortransportunits)

ISO /IEC 15459-2 Information technology unique identifiers Part 2. Registration procedures

(Information technology-

Uniqueidentifiers-Part 2.Registrationprocedures)