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

**GB/T 46687.2-2026**

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**Expression of machine language for standard - Part 2:  
Guidelines for standard document content labeling based on  
XML**

**标准机器语言表达 第2部分：基于XML的标准文档内容标记指南  
(English Translation)**

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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 2 of GB/T 46687 "Standard Machine Language Expressions". GB/T 46687 has the following parts published.

---Part 1: Basic Architecture and General Requirements for Element Representation;

---Part 2: XML-based Standard Document Content Markup Guidelines;

---Part 3: Methods for expressing feature elements.

This document has been revised to adopt the "IEC/ISO Coding Guide 2025", and the document type has been changed from an ISO/IEC guide to a Chinese guide type.

National standard.

This document has undergone significant structural changes compared to the IEC/ISO Coding Guidelines 2025. The changes in structural numbering between the two documents affect See Appendix A for a list of photos.

This document differs significantly from the IEC/ISO Coding Guidelines 2025. The differences are indicated in the margins of the relevant clauses.

These technical differences are indicated by a vertical single line (|). A summary of these technical differences and their causes can be found in Appendix B.

The following editorial changes have been made to this document.

---To align with existing standards, the standard's name has been changed to "Standard Machine Language Expressions Part 2: XML-based Standard Document".

Content Markup Guidelines;

---The footnotes for sections 4.2.3, 4.2.4, 4.3.2, 4.3.3, and 10.1.1 in the original text have been deleted;

---Informative Appendices A, B, D, and E have been deleted;

---Appendix C (Informative) has been added to list the labels used in this document;

---Appendix D (Informative) has been added to the list of attributes covered in this document;

---Added Appendix F (Informative) for a comparison of label names among similar standards;

---Due to the incompatibility of the examples and notes in the IEC/ISO Coding Guide 2025 with the usage scenarios of Chinese standards, parts of it have been deleted from this document.

Examples and common usages will be added, along with relevant examples from my country, to improve the applicability and operability of this document in my country.

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 Standards Digitalization Standardization Working Group (SAC/SWG29).

Computing Center (National Supercomputing Center Jinan), Shanghai Meijialin Software Technology Co., Ltd., Beijing University of Posts and Telecommunications, Beijing 3D World

Technology Co., Ltd., Tongfang Knowledge Network Digital Technology Co., Ltd., Beijing Academy of Science and Technology Analysis and Testing Institute (Beijing Institute of Physics and Chemistry) Analysis and Testing Center), Shandong Provincial Institute of Standardization, Hebei Provincial Institute of Standardization, China Aviation Integrated Technology Research Institute, China Mobile (Hangzhou) Information Technology Co., Ltd., China Electric Power Research Institute Co., Ltd., China Cybersecurity Review and Certification and Market Supervision Big Data Center, China Mobile Internet of Things Co., Ltd., Hangzhou Hengzeng Technology Co., Ltd., and China Aerospace Standardization Institute.

## Introduction

Standardized digital transformation is an inevitable trend for standardization work to adapt to global digital development. Standardized machine language expression is a form of standardized digitalization.

The core content, and the foundation supporting the digitalization of applications. Standard machine language expressions reconstruct standard content from a machine-readable perspective, using machine language...

Presenting the rules and characteristics carried by standards can improve the efficiency of standard knowledge utilization and enhance the adaptability of digital scenarios.

GB/T 46687 "Standard Machine Language Expressions" is proposed to be divided into the following parts, which have different focuses but are also interconnected.

---Part 1: Basic Architecture and General Requirements for Element Expression. The aim is to specify the drafting of digital standards using machine language as the expression form.

The overall requirements for on-time performance, and the basic framework of the corresponding digital standards.

---Part 2: Guidelines for Standard Document Content Markup Based on XML. The aim is to provide organizations and institutions with guidelines on using XML tags to mark up document content.

References and suggestions are provided when marking up standard document content.

---Part 3: Feature Element Representation Methods. The aim is to provide a modeling and representation method for feature elements in standard machine language for various organizations and institutions.

Provide the necessary expression methods when using it.

---Part 4: Specifications for using XML-based standard content structure tags. The purpose is to provide a framework for organizations and institutions to use XML.

Tags provide rules to regulate the use of XML tags.

Standard Machine Language Expressions Part 2: Based on XML Standard Document  
Content Markup Guidelines

## 1 Scope

This document provides XML-based methods for marking up the document structure and presentation format (such as document content, tables, formulas, figures, etc.) of standardized documents.

Guidance and suggestions on terms and definitions, citations, etc.

This document is applicable to various organizations for converting national, industry, local, group, and enterprise standardization documents into XML format.

Replace, compile, and publish.

**Note 1:** To ensure consistency in technical content, this document provides the relevant tags and their defined elements (see Appendix C) and tag attributes (see Appendix D); given that ID is a commonly used attribute in XML tags, used to uniquely identify elements. This document also provides examples of elements with ID attributes and their tags, and gives...

Corresponding examples (see Appendix E).

**Note 2:** The national, industry, local, group, and enterprise standardization documents mentioned above refer to standards formulated in accordance with GB/T 1.1. Standards not formulated in accordance with GB/T 1.1 are excluded.

The standards established in the regulations shall be used as a reference.

## 2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 1.1 Standardization Work Guidelines Part 1: Structure and Drafting Rules of  
Standardization Documents

### 3.1 Terms and Definitions

The terms and definitions defined in GB/T 1.1 and the following terms and definitions apply to this document.