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

GB/T 48000.2-2026

Standard digitalization - Part 2: Reference architecture model

标准数字化 第2部分：参考架构模型

Issued on: January 28, 2026

Implemented on: August 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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 48000, "Digitalization of Standards". GB/T 48000 has already published the

following parts.

1.General Guidelines;

2.Reference Architecture Model;

3.Ontology Modeling Requirements;

4.Collaboratively Developing Requirements. 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). This document was drafted by: China National Institute of Standardization, China Communications Infrastructure Maintenance Group Co., Ltd., China Inspection and Testing Society, and Beijing Post Office. Open University, China Aerospace Standardization Institute, China Civil Aviation Information Network Co., Ltd., State Grid Hunan Electric Power Co., Ltd., Coal Science Research Institute Co., Ltd., China Aeronautical Integrated Technology Research Institute, Shandong Provincial Computing Center (National Supercomputing Center in Jinan), China Electronics Technology Group Corporation (CETC) Big Data Center According to the Research Institute Co., Ltd., Beijing 3D World Technology Co., Ltd., Naval Standardization Research Center, and Tongfang Knowledge Network Digital Technology Co., Ltd. Company, China Quality Certification Center Co., Ltd., Anhui Provincial Institute of Quality and Standardization, Jiangsu Zhongtian Technology Co., Ltd., Wuhu Municipal Standards Chemical Research Institute, China Southern Power Grid Science Research Institute Co., Ltd., Zhejiang University, Shandong Port Qingdao Port Group Co., Ltd., Beijing CESI Technology Industrial Limited Liability Company, Tianjin Institute of Standardization (Tianjin WTO/T BT Notification and Consultation Center), CRRC Qingdao Sifang Locomotive & Rolling Stock Co., Ltd. Joint-stock company, Shandong Big Data Association, China National Petroleum Corporation Exploration and Development Research Institute, China Telecom Digital Technology Co., Ltd. Limited Company, China Ordnance Industry Group 207 Research Institute, Jiangxi Provincial Institute of Quality and Standardization, Beijing Sihe Technology Co., Ltd., China Automotive Engineering Research Institute Co., Ltd., Zhejiang Geely Holding Group Co., Ltd., Guangdong Quality Inspection & Certification Co., Ltd., Siemens (China) Limited Liability Company, Beijing State Grid Information & Communication Accenture Information Technology Co., Ltd., China Jiliang University, Shandong Provincial Institute of Standardization, China Shipbuilding Group Comprehensive Technology and Economic Research Institute of Limited Liability Company. The main drafters of this document are. Liu Xize, Wang Yiyi, Zhang Bingyan, Chen Shuangquan, Xia Yang, Li Qing, Xu Lei, Zhang Zhao, Zhang Lan, Zhang Jianzhong, and Chen Run. Niu Nana, Li Gang, Sun Hongjun, Wei Xie, Wang Zhaojun, Wu Ruifeng, Yang Pengli, Li Ming, Wu Jin, Ge Yongxin, Wang Pengjie, Lin Zhengping, Sun Jinyang Gu Fu, Xu Bin, Zhang Mingying, You Fanglan, Zhang Xiangjie, Jian Wenpeng, Yang Hanshu, Zhang Yu, Hou Zexiong, Lei Ningning, Hong Penghui, Li Nannan, Wu Yonghui Li Jin, Ma

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With the advancement of the digital, networked, and intelligent transformation of the economy and society, the digitalization of standards has become an inevitable trend. Various entities need to... We need to independently carry out standard digitization activities to meet the needs of standardization work in the new era and better leverage the role of standards. However, at present, there is a lack of openness... Guidance documents for exhibition-related activities, providing guidance on how to identify the main aspects and priorities of standard digitization, rationally utilize key technologies, and create a complete standard. Provide rules for accurate activity records, etc. GB/T 48000 "Standard Digitalization" is a fundamental and universal standard for carrying out standard digitalization activities in my country, aiming to improve the standard digitalization system. The system for the conceptualization, development, and application of standards should be standardized and guided to ensure the orderly progress of standardization work, promote technical exchanges, and avoid duplication of related research. The project is planned to consist of six parts.

1.General Guidelines. The aim is to provide the overall principles and basic framework for conducting standardized digitization activities, and to clarify the standards for digitization. The main aspects of chemical activities, as well as recommended practices and key technologies.

2.Reference Architecture Model. The aim is to propose a reference architecture model to describe standard digitization activities, and to support standard digitization. The system architecture and activity boundaries are clearly and visually expressed, providing reference and guidance for the planning and organization of related activities.

3.Ontology Modeling Requirements. The aim is to determine the construction methods and requirements for standard ontologies in standard digitization activities, and to provide a unified approach. A unified conceptual framework ensures the accuracy and interoperability of standard digitization.

4.Collaborative Development Requirements. The aim is to establish relevant rules for collaborative standard development in standard digitization activities, ensuring that standards... Collaborate to develop standardized procedures for carrying out the work.

5.Maturity Assessment. The aim is to provide a standardized, digitized maturity assessment system, proposing assessment indicators, procedures, and methods. Laws, etc.

6.Organization and Process Management. The aim is to provide procedures and methods for organizing and managing the processes of conducting standardized digitalization activities. Laws, etc. The reference architecture model proposed in this document comprehensively considers and fully reflects the cutting-edge progress and theoretical advancements in the digitization of standards both domestically and internationally. At the international level, IEC /SMB/SG12 proposed a standardized architecture model for digital

applications in its report "SMB/7326/R". This provides a reference for quasi-digital organization and planning. At the domestic level, GB/T 48000.1 "Standards Digitization Part

1.General Guidelines" proposes... The standardization activities have three main aspects. process digitization, content digitization, and application digitization, providing a foundation for my country's standardization activities. This laid the foundation for the launch of the initiative. GB/T 48000.1 focuses on the explanation of the direction of standard digitization, and solves the questions of "what is standard digitization and what are its aspects"; This document focuses on clarifying the boundaries and connotations, and deconstructs the architecture of standard digitization through a visual model, thus solving the problem of "standard digitization". The question is, "What are the boundaries of digital activities?" Standard Digitalization Part

1 Scope

GB/T 48000.2-2026 is the Chinese national standard covering the reference architecture of standards digitalization - the layers from the content model through the knowledge base and the platform to the applications that consume standards, and how the other parts of the series fit into it. Part 2 of the series, first edition, with Parts 3 and 4. It was issued on 28 January 2026 and has been in force since 1 August 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document establishes the overall framework of the standard digital reference architecture model, providing aspects such as capability characteristics, lifecycle, and application layers. The guidance and suggestions were provided, along with relevant information. This document applies to individuals, organizations, institutions, and other entities.

- a) Planning and organizing activities related to the digitization of standards;
- b) Identify the level of digitization capability for standard content;
- c) Clearly define the basic conditions for carrying out activities at each stage of the life cycle;
- d) Refer to and provide standard digital application services at different levels.

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