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

GB/T 47012.1-2026

Platform for standard digitalization - Part 1: System architecture

标准数字化平台 第1部分：系统架构

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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 1 of GB/T 47012 "Standard Digital Platform". GB/T 47012 has already published the following parts.

1. System Architecture. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This standard was proposed and is under the jurisdiction of the National Standards Digitalization Standardization Working Group (SAC/SWG29). This document was drafted by: Zhejiang University, China National Institute of Standardization, Guangdong Bozhilin Robotics Co., Ltd., and Hangzhou Hengzeng Technology Co., Ltd. Limited Company, National Standards Technical Review Center of the State Administration for Market Regulation, Guangdong Provincial Institute of Standardization, Shandong Provincial Institute of Standardization Ningbo Institute of Standardization, Shanghai Meijialin Software Technology Co., Ltd., China Civil Aviation Information Network Co., Ltd., Ningbo University China Academy of Building Research Co., Ltd., China Railway Construction Heavy Industry Group Co., Ltd., CRRC Industrial Research Institute (Qingdao) Co., Ltd. Company, China National Heavy Duty Truck Group Co., Ltd., China Urban Rail Transit Association, China Three Gorges Corporation, China Jiliang University COSMOPlat IoT Technology Co., Ltd., Zhejiang Tobacco Industry Co., Ltd., Institute of Science and Technology Strategy Consulting, Chinese Academy of Sciences, Xianheng Electric Gas Technology (Hangzhou) Co., Ltd., Northeastern University, Soochow University, Chang'an University, COSMOPlat Digital Technology (Shanghai) Co., Ltd., and Dr. Tantech Electric Technology (Hangzhou) Co., Ltd., Hangzhou Aike Technology Co., Ltd., Shanghai Shentong Metro Group Co., Ltd., Shandong University of Science and Technology, Hisense Group Holdings Co., Ltd., Changzhou Institute of Technology, Zoomlion Heavy Industry Science & Technology Co., Ltd., Qingdao University of Technology, Hangzhou Low Altitude Industry Development Co., Ltd. The company, Shenzhen Bojiang Robotics Co., Ltd., Zhejiang Sci-Tech University, and Shanghai Caixin Zhihui Digital Technology Co., Ltd. The main drafters of this document are: Gu Fu, Liu Xize, Gu Xinjian, Dai Feng, Du Xiaowei, Wang Yiyi, Niu Nana, Wang Bo, Ji Yangjian, and Li Yongjin. Chen Ao, Ke Yingying, Wang Jiasheng, Wang Peng, Wu Jiangang, Jin Yonghua, Zhan Hongfei, Qu Jing, Liu Hongyang, Lü Xiao, Mou Shan, Wang Jianzhi, Chen Ang, Xu Xinsheng Lu Xiaoping, Jin Yong, Guo Jianfeng, Ma Bingyu, Sun Wenqiang, Wu Yingwen, Lü Jingxiang, Feng Xingzhi, Zhang Shuo, Fang Yunke, Huang Hailai, Jia Shun, Gao Jie Lu Qunfeng, Shi Hao, Pang Bo, Guo Zhushenyu, Hu Jiawen, Li Renwang, An Yunfeng.

Digital transformation of standards is an inevitable trend for standardization work to adapt to global digital development, and a digital platform for standards is the support for digital standards. A crucial infrastructure for digital transformation. Currently, from standardization organizations at all levels to standardization departments in enterprises, everyone is exploring the establishment of digital standardization platforms. While there is a platform, there is a lack of unified guiding documents for its construction. GB/T 47012 "Standard Digital Platform" is a fundamental and general standard guiding the construction of

standard digital platforms. It provides platform specifications. The rules and standards for architecture, functionality, system and resource interfaces, service testing, etc., will be standardized to guide the construction and application of digital platforms. This will be implemented by four [organizations/organizations]. Partial composition.

1. System Architecture. The purpose is to outline the core modules of a standard digital platform, including business operations, resources, and security, as well as the platform itself. The document outlines the implementation of various measures and aims to establish a general consensus on the construction of a standardized digital platform.

2. Functional Requirements. The purpose is to establish the functional requirements of the standard digital platform, so as to facilitate the design of the standard digital platform. In the design, construction, operation, service and management, the required functions are selected, functions are integrated and functional services are provided.

3. System and Resource Interfaces. The purpose is to provide the system and resource interfaces for a standard digital platform, supporting different... System integration and resource integration of standard digital platforms.

4. Service Testing. The purpose is to provide service function testing metrics and methods for standard digital platforms, supporting inter-platform testing. The integration of the platform with application scenarios will enable the platform to provide better services to users. GB/T 47012 provides a comprehensive solution and reference model for establishing standard digital platforms, reducing duplication of standard digital platforms. This will reduce the workload, promote the integration of different standard digital platforms, and improve the efficiency and quality of standard digital platform construction. Various stakeholders will work together. Determine the scope and content of the standard digital platform construction based on your own needs. This document is Part 1 of GB/T 47012, which outlines the construction principles and overall framework for the standardization of digital platforms. The description serves to lay the conceptual foundation for standard digital platforms and guide the construction of related platforms; the other parts are related to the content of this section. This involves extending and refining the standard digital platform, improving its functional requirements, system and resource interfaces, and service testing.

Standard Digital Platform Part

1 Scope

GB/T 47012.1-2026 is the Chinese national standard covering the platform on which machine-readable standards are drafted, stored and served - the content repository and its models, the editing and review services, the publishing and the interfaces through which a machine consumes a standard instead of a person reading it. Part 1 of the series, first edition, with the standard digitalization requirements GB/T 48000.3-2026 and .4-2026. 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 system architecture and overall principles for building a standard digital platform, and provides the platform's business architecture, resource architecture, and security... It provides guidance and suggestions on barrier architecture and implementation architecture, and gives relevant information. This document applies to organizations and institutions that build and apply standard digital platforms.

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 48000.1-2025 Standard Digitalization Part

3 Terms and Definitions

The terms and definitions defined in GB/T 48000.1-2025 and GB/T 42131, as well as the following terms and definitions, apply to this document.

3.1 Support the use of digital technology to empower the content and entire lifecycle of standards, enabling the rules carried by standards to be read by machines in digital form. The infrastructure for a series of activities involving acquisition, transmission, and use.

Note. Without causing confusion, the term "standard digital platform" in this document is abbreviated as "platform".

3.2 Standard lifecycle The entire process from standard preparation to obsolescence

Note. This includes stages such as preparation, project initiation, drafting, soliciting opinions, technical review, approval and release, delivery, application feedback, re-review and repeal.

3.3 taskpackage This packages together a set of related tasks, resources, knowledge, and dependencies required to complete a specific task in the standardization process, as... A reusable, configurable, traceable, and manageable unit.

3.4 knowledge Knowledge, judgment, or skills acquired through learning, practice, or exploration. [Source: GB/T 23703.2-2010, 2.1]