

ICS 35.240.50

CCS L 70



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

GB/T 44067.4-2025

**Industrial internet platform - Technical requirements and test
methods - Part 4: Edge computing platform**

工业互联网平台 技术要求及测试方法 第4部分：边缘计算平台

Issued on: December 31, 2025

Implemented on: April 1, 2026

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

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Abbreviations	2
5 Overall Framework	3
6.Edge computing platform technical requirements	3
6.1 Edge Node Communication Capabilities	3
6.2 Edge Node Protocol Conversion Capability	4
6.3 Edge Node Analysis and Application Deployment Capabilities	4
6.4 Edge Node Control and Collaboration Capabilities	4
6.5 Intelligent Decision-Making Capabilities of Edge Nodes	4
6.6 Edge Node Development Capabilities	5
6.7 Edge Node Open Capabilities	5
6.8 Device access and management capabilities	5
6.9 Edge-Cloud Collaboration Capabilities	5
6.10 Edge Operation and Maintenance Capabilities	5
6.11 Data Service Capabilities	6
7 Edge Computing Platform Testing	6
7.1 Test Conditions	6
7.2 Edge Node Communication Capabilities	6
7.3 Edge Node Protocol Conversion Capability	7
7.4 Edge Node Analysis and Application Deployment Capabilities	7
7.5 Edge Node Control and Collaboration Capabilities	8
7.6 Intelligent Decision-Making Capabilities of Edge Nodes	8
7.7 Edge Node Development Capabilities	9
7.8 Edge Node Open Capabilities	9
7.9 Device access and management capabilities	10
7.10 Edge-Cloud Collaboration Capability	10
7.11 Edge Operation and Maintenance Capabilities	11
11 Reference	13

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 4 of GB/T 44067 "Technical Requirements and Test Methods for Industrial Internet Platforms". GB/T 44067 has been... The following sections were published.

1. General Provisions;

2. Industrial PaaS Platform;

3. Industrial DaaS Platform;

4. Edge Computing Platforms 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). This document was drafted by: China Academy of Information and Communications Technology, University of Science and Technology of China, and China Nuclear Power Operation Technology Co., Ltd. China Electronics Technology Standardization Institute, Hebei Iron & Steel Digital Technology Co., Ltd., Inspur Cloud Industrial Internet Co., Ltd., and Guoneng Information Control Technology Co., Ltd. H3C Industrial Internet Co., Ltd., Anhui University, TBEA Co., Ltd., and State Pipeline Group Northern Pipeline Co., Ltd. Dao Limited Liability Company, Jiangxi Provincial Department of Industry and Information Technology, Langkun Smart Technology Co., Ltd., Midea Cloud Intelligence Technology Co., Ltd., Jingdezhen Municipal Bureau of Industry and Information Technology, Jiangsu Jinheng Information Technology Co., Ltd., Shenzhen Beiliande Industrial Co., Ltd., Anhui Konka Electronics Co., Ltd. The company, Beijing University of Aeronautics and Astronautics, Suzhou Deme Information Technology Co., Ltd., Hefei Guoxuan High-Tech Power Energy Co., Ltd., and Anhui Haixingyun IoT Technology Co., Ltd., Moore Yuanshu (Fujian) Technology Co., Ltd., Huaneng Information Technology Co., Ltd., Henan Zhiyu Rong Information Service Co., Ltd. The company, China Software Testing Center (Software and Integrated Circuit Promotion Center of the Ministry of Industry and Information Technology), and the National Industrial Information Security Development Research Center Center, the Fifth Research Institute of Electronics of the Ministry of Industry and Information Technology, China Industrial Internet Research Institute, Hefei Jinxing Intelligent Control Technology Co., Ltd., Deqing Alpha Innovation Research Institute, Shanghai Weipige Smart Water Co., Ltd., Beijing University of Science and Technology, and Kaimerde (Suzhou) Information Technology Co., Ltd. Limited Liability Company, Huarong Chemical Co., Ltd., Beijing Hemu Zhixun Technology Co., Ltd., Tsinghua University Shanxi Clean Energy Research Institute, China Unicom (Guangdong) Industrial Internet Co., Ltd., Changchun Qipu Technology Information Consulting Co., Ltd., and Shenzhen Ailing Network Co., Ltd. The main drafters of this

document are. Liu Mo, Zhou Yanfei, Zhao Zidong, Zhu Xinyu, He Chang, Tan Haisheng, Li Xiangyang, Cheng Minmin, Wang Kai, and Cang Tianzhu. Shen Pei, Li Hongpeng, Shang Guangyong, Xu Wei, Mi Luzhong, Liu Shuying, Guo Xing, Wang Dajiang, Chen Ke, Chen Sixun, Gao Kun, Chen Long, Hou Baocun, Zhu Cheng Li Jingxian, Jiang Feihu, Deng Bohe, Wu Fei, Du Haohua, Wang Jun, Guan Qiang, Ji Wenjie, Liu Ping, Meng Zihan, Sun Yan, Li Tianchi, Luan Yan, Zhang Juanjuan Wu Zhitao, Zhang Haoxiang, Shen Yuan, Hou Jiahui, Xue Hao, Zhang Hanwen, Meng Jianghua, Fan Qiang, Wan Fang, Wang Zhe, Zhang Xiao, Wang Fei, Zheng Shuqiong, Liu Yang.

As a crucial tool for the transformation and upgrading of my country's manufacturing industry, industrial internet platforms have experienced rapid development in recent years with the support of governments at all levels. The development of the platform has significantly improved its application level, and a multi-level, systematic platform framework has been initially established. The total number of platforms of various types nationwide has reached several hundred. There are many companies involved, and a number of platforms with certain regional and industry influence have emerged, which have effectively promoted the digital transformation and upgrading of my country's manufacturing industry. To further promote the high-quality development of cross-industry and cross-domain industrial internet platforms, GB/T 44067 "Industrial Internet Platform Technology" The "Requirements and Testing Methods" document divides the platform into layers according to its architecture and outlines the requirements for each part, for use by management, users, suppliers, and... Independent evaluators conduct research and development, testing, management, and selection of industrial internet platforms and related products. GB/T 44067 "Technical Requirements and Test Methods for Industrial Internet Platforms" is proposed to consist of the following four parts.

- 1.General Principles. This section outlines the technical requirements for the overall framework of the Industrial Internet platform, describing the PaaS platform of the overall architecture. Testing content and methods for edge computing platforms, industrial DaaS platforms, and industrial applications. The aim is to develop industrial internet platforms. Testing of the platform.
- 2.Industrial PaaS Platform. This section outlines the technical requirements for the overall capabilities of the Industrial Internet Platform (PaaS) and describes... Test content includes general PaaS, industrial models, industrial application development and human-computer interaction, industrial APP market and inter-platform calls, etc. Testing Methodology. This method aims to conduct testing of industrial PaaS platforms.
- 3.Industrial DaaS Platform. This section proposes the architectural components and technical requirements for an Industrial Internet Data Service (DaaS) platform. The request describes the test content and test methods for relevant functional components in the industrial big data and industrial data management of an industrial DaaS platform. The method aims to guide the functional testing and certification evaluation of industrial DaaS

platforms.

4.Edge Computing Platform. This section outlines the technical requirements for edge computing platforms within the industrial internet platform, describing edge communication... This includes testing content and methods for edge communication, protocol conversion, edge analytics and application deployment, and edge operations and maintenance. The aim is to conduct edge... Testing of the computing platform. Industrial Internet Platform Technical Requirements and Testing Methodology Part

1 Scope

GB/T 44067.4-2025 is the Chinese national standard covering the edge platform of an industrial internet system - the computing that sits next to the machines because the latency, the bandwidth or the data sovereignty will not allow it to be in the cloud, with its management, its applications and its link to the platform above. Part 4 of the series, first edition. It was issued on 31 December 2025 and has been in force since 1 April 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 2025 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 outlines the testing framework for industrial internet platform edge computing platforms, specifies the technical requirements, and describes the corresponding tests. method. This document is intended to guide developers, users, and third-party organizations in conducting testing of edge computing 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 15969.3 Programmable Logic Controllers - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 44067.1-2024, GB/T 44067.2 and SJ/T 11915, as well as the following terms and definitions, apply to this document.

3.1 A hub for the convergence of all industrial elements and the allocation of industrial resources, it is built upon massive data to meet the demands of digitalization, networking, and intelligentization in the manufacturing industry. The data collection, aggregation, and