

ICS 35.110
CCS L 79



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

GB/T 46493.2-2025

**Internet of things - Logistics park - Part 2: Capability evaluation
model**

物联网 物流园区 第2部分：能力评估模型

Issued on: October 5, 2025

Implemented on: May 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.Model Description	1
5.Evaluation Item Descriptions	3
5.1 Perception and Control	3
5.2 Application Platform	4
5.3 User Interaction	8
5.4 Communication Network	8
10 Reference	11

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 46493 "Internet of Things Logistics Parks". GB/T 46493 has already published the following parts.

1.General Requirements for Application Systems;

2.Competency Assessment Model 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 Storage Hengke IoT System Co., Ltd., China Electronics Technology Standardization Institute, and China Federation of Logistics and Purchasing. Hehui, CESI (Shenzhen) Electronic Information Products Standardization Engineering Center Co., Ltd., Jiangsu CESI Technology Development Co., Ltd., Chongqing Quality and... Standardization Research Institute, Hubei Commerce & Logistics Group Co., Ltd., Hubei Transportation Investment & Logistics Group Co., Ltd., Wuhan Yangtze River International Trade Group Co., Ltd. The company, Wuchan Zhongda Logistics Investment Group Co., Ltd., Zhejiang Dahua Technology Co., Ltd., Wuxi Internet of Things Industry Research Institute, and Electronics Technology Universities, Anshan Iron and Steel Group Co., Ltd., Tianjin Kunpeng Information Technology Co., Ltd., Beijing Technology and Business University, China Mobile (Hangzhou) Information Technology Co., Ltd. Company,

Guizhou Fengmao Supply Chain Management Co., Ltd., Xi'an Aerospace Automation Co., Ltd., Chengdu Qinchuan Internet of Things Technology Co., Ltd. The company, Shaanxi Coal Trading Center Co., Ltd., China Construction Technology Group Co., Ltd., Beijing Interchain Spacetime Digital Technology Co., Ltd., Chongqing Post and Telecommunications University, Hangzhou Hikvision Digital Technology Co., Ltd., Perception Data Chain (Wuxi) Technology Co., Ltd., Inspur Cloud Industrial Internet Co., Ltd. company. The main drafters of this document are. Su Jingru, Song Kuiyun, Yang Hong, Liu Hao, Shi Yutong, Shen Qixing, Yu Nengchao, Hou Haiyun, Kong Weisheng, and Lü Zhong. Wu Mingjuan, He Mingke, Fu Genli, Cao Tingsheng, Li Yinglong, Hu Qi, Chen Siyuan, Ruan Huizhong, Wang Lu, Fang Meng, Wang Wen, Wang Huan, Shao Hanshu, Chen Zhou Fan Zesen, Qian Qiang, Li Linjing, Qian Weilin, Xie Minghao, Zhang Yan, Hu Jianjun, Sun Fanli, Jiang Hui, Deng Zhiji, Zheng Limin, Li Xiaoyu, Li Yanxia Ding Fan, Mei Zheng, Pang Songtao, Zeng Tao, Liang Yongzeng, Huang Xuwei, Lu Yapeng, Tao Yi, Li Wei.

To establish a coordinated, efficient, and systematic modern logistics standard system, and to standardize the application of Internet of Things (IoT) technology in logistics parks, the following measures are formulated. GB/T 46493 "Internet of Things Logistics Parks". GB/T 46493 provides guidance for the application of IoT in logistics parks by specifying the general system requirements and capability assessment models. The system design, deployment, and operation management of the application provide more convenient and standardized guidance for the application of IoT technology in logistics parks, supporting the development of IoT systems. Streaming capacity has been optimized and improved. GB/T 46493 is proposed to consist of two parts.

1.General Requirements for Application Systems. The purpose is to establish the architecture of the IoT application system for logistics parks and to provide general requirements. Seeking information for system design, deployment, and operation management.

2.Capability Assessment Model. The purpose is to provide capability assessment items for the application of IoT technology in various logistics parks, facilitating... An assessment will be conducted. Internet of Things Logistics Park Part

1 Scope

GB/T 46493.2-2025 is the Chinese national standard covering grading how far a park has actually got - the coverage of the sensing, the integration between systems, the automation of the decisions and the data used, arranged into levels with the criteria for each. Part 2 of the series, with the requirements in Part 1. First edition, in force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

This document provides a capability assessment model for IoT application systems in logistics parks, along with relevant assessment items. This document is intended to guide the capability assessment of IoT application systems in logistics parks.

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 2423.3 Environmental testing - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 18354 and GB/T 33745 apply to this document.

4. Model Description The capability assessment model for IoT application systems in logistics parks adopts a hierarchical structure, consisting of three layers, as shown in Figure 1.