

ICS 35.110
CCS L 79



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

GB/T 33474-2025

Replacing GB/T 33474-2016

Internet of things - Reference architecture

物联网 参考体系结构

(English Translation)

Issued on: June 30, 2025

Implemented on: January 1, 2026

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and Definitions
4 Abbreviations
5 IoT stakeholders and concerns
5.1 Stakeholders
5.2 Stakeholders' perspectives and concerns
6 IoT Perspectives and Views
6.1 Overall perspective and view
6.2 Business Perspectives and Views
6.3 Functional Perspectives and Views
6.4 Deployment Perspectives and Views
6.5 Network Perspectives and Views
6.6 Trusted Perspectives and Views
Appendix A (Informative) Relationships among stakeholders, perspectives, and views
Appendix B (Informative) Concepts Related to the Internet of Things
B.1 Overview
B.2 IoT Components
B.3 Internet of Things System
B.4 IoT Environment
Appendix C (Informative) Internet of Things Model for "Common Platform Application Subset"
Reference

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 33474-2016 "Internet of Things Reference Architecture". Compared with GB/T 33474-2016, except for the structural adjustment In addition to the integration and editorial changes, the main technical changes are as follows.

- a) Added content on "IoT stakeholders and concerns" (see Chapter 5);
- b) The IoT conceptual model, IoT system reference architecture, IoT communication reference architecture, IoT information reference architecture, The system structure is merged into the perspective and view of the Internet of Things, and the perspective and view system are used to describe the reference architecture of the Internet of Things (see Chapter 6, 2016). 6, 7, 8, and 9 of the 2012 edition).

1 Scope

This document identifies the stakeholders and concerns of the Internet of Things and specifies the reference architecture of the Internet of Things described in terms of perspectives and view systems.

This document is applicable to the design, construction, application and maintenance of the Internet of Things, and is also applicable to the research, development and other Internet of Things standards. Related activities.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 30269.2 Information technology sensor networks Part 2 Terminology

GB/T 33745-2025 Internet of Things Terminology

GB/T 35319 Internet of Things System Interface Requirements

GB/T 41780 (all parts) Edge Computing for the Internet of Things

3 Terms and Definitions

The terms and definitions defined in GB/T 33745-2025 and the following apply to this document.

3.1 Internet of things; IoT

Based on the perception control equipment, the physical entities, people, systems and information resources are connected through the communication network to respond to and process physical and virtual Virtual world information infrastructure. [Source: GB/T 33745-2025, 3.1.1]

3.2 IoT system

A system that provides Internet of Things (3.1) capabilities.

Note: The IoT system generally includes IoT gateways, sensors, and actuators. [Source: GB/T 33745-2025, 3.1.2]

3.3 User

Any entity such as a person, organization, device or program that uses Internet of Things (3.1) applications and services. [Source: GB/T 33745-2025, 3.1.8]

3.4

A description of the overall structure, components and relationships of the Internet of Things (3.1).