

ICS 35.110
CCS L 79



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

GB/T 35319-2025

Replacing GB/T 35319-2017

Internet of things - System interface requirements

物联网 系统接口要求

Issued on: March 28, 2025

Implemented on: October 1, 2025

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

Table of Contents

Preface	III
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Abbreviations	1
5 Overview	1
6 Basic interface requirements	2
7 Interface transmission content	3
References	5

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 35319-2017 "Internet of Things System Interface Requirements". Compared with GB/T 35319-2017, except for the structural adjustment In addition to the integration and editorial changes, the main technical changes are as follows.

- a) Added terms and definitions of interface and external system (see 3.1 and 3.2);
- b) Deleted the terms Internet of Things, domain, entity, sensor network, sensing object, basic service system, tag recognition system, and location information Terms and definitions of systems, audio and video information collection systems, and intelligent device interface systems (see 3.1, 3.2, 3.3, 2017 edition) 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10);
- c) The figure in the overview was changed (see Chapter 5, Chapter 5 of the 2017 edition);
- d) The number of interfaces has been changed (see Chapter 5, Chapter 5 of the 2017 edition);
- e) Added basic requirements for interfaces (see Chapter 6);
- f) Changed "interface requirements" to "interface transmission content" and changed the content (see Chapter 7, Chapter 6 of the 2017 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed and coordinated by the National Information Technology Standardization Technical Committee (SAC/TC28).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2017 as GB/T 35319-2017;
- This is the first revision.

1 Scope

This document specifies the basic requirements for IoT system interfaces and interface transmission content requirements.

This document applies to the design, development and deployment of IoT system interfaces.

2 Normative references

GB/T 33474

GB/T 33745

3 Terms and definitions

The terms and definitions defined in GB/T 33474 and GB/T 33745 and the following apply to this document.

3.1 Interface

Between two functional entities or a combination of functional entities, the functional characteristics, physical interconnection characteristics, and signal exchange of these two functional entities characteristics and other appropriate characteristics define a shared boundary.

[Source: GB/T 5271.9-2001, 09.01.06, modified]

3.2 external system

A system that does not belong to this IoT system but supports exchanging information with this IoT system.

4 Abbreviations

The following abbreviations apply to this document.

IoTSI. Internet of Things System Interface

5 Overview

This document defines the IoT system interface based on the IoT functional view in GB/T 33474. The IoT system interface is distributed with The interfaces are shown in Figure

1. These interfaces represent the domains connected at both ends (i.e., resource exchange domain, user interaction domain, service provision domain, sensor domain, etc.).

There is a logical association or physical connection between the knowledge control domain and the operation and maintenance management domain), objects (i.e., target objects, users, and external systems).

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