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

GB/Z 41293-2022

**Technology requirements on WAN based fast and
self-deployment of sensor and actuator type of devices**

基于广域网通信的感知测控类设备快速自服务部署技术要求

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
 - 3.1 Internet of Things
 - 3.2 Sensor/Actuator Related

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 of Standardization Documents" drafted. Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents. This document is proposed by the Ministry of Industry and Information Technology of the People's Republic of China. This document is under the jurisdiction of the National Communication Standardization Technical Committee (SAC/TC485). This document is drafted by: China Telecom Group Co., Ltd., China Academy of Information and Communications Technology, Beijing University of Posts and Telecommunications, Acoustics Research Institute of the Chinese Academy of Sciences Institute. The main drafters of this document. Feng Shuntian, Sun Xianghui, Du Jiatong, Zhang Chunhong, Zhang Yu, Zhou Kaiyu, He Yaxi. WAN-based communication Rapid self-service deployment of sensing measurement and control equipment skills requirement

1 Scope

GB/Z 41293-2022 is the Chinese national standard on technology requirements on wan based fast and self-deployment of sensor and actuator type of devices, in the field of telecommunications and audio-video engineering. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 9 March 2022 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it applies from publication. Classification: ICS 33.040, CCS M30. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the technical requirements for rapid self-service deployment of sensing measurement and control equipment based on WAN communication, including application definition, application Framework, perception extension layer, network layer, application layer, and security requirements. This document is suitable for the rapid self-service deployment of sensing measurement and control equipment in various applications and scenarios.

2 Normative references

There are no normative references in this document.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Internet of Things

3.1.1 A device that has functions such as information collection and/or control, and implements information initiation and termination in the communication between people and things and things and things in the Internet of Things.

Note. Typical representatives are sensors, RFID readers.

3.1.2 Provide some common capabilities and support for IoT applications, and provide open interfaces so that applications can access and use network resources and Ability support management platform. Note

1.By shielding the underlying specific network implementation from specific IoT applications, the complexity of the development and deployment of upper-layer IoT applications can be simplified and reduced. Note

2.Usually, the IoT management platform is mainly responsible for the registration and management of IoT-related devices. In this document, this platform is referred to as the IoT backend management platform. management system.

3.2 Sensor/Actuator Related

3.2.1 sensor sensor According to certain rules, the objective phenomena and physical properties in the physical world are monitored, and the monitoring results are transformed into those that can be further processed. signal device.

3.2.2 Actuator A device or device that produces a certain physical response according to a certain law under the action of an input signal.