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**NATIONAL STANDARD OF THE
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**Internet of thing (IoT) application protocol - Technical
requirements of the constrained application protocol (CoAP)**

物联网应用协议 受限应用协议(CoAP)技术要求

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions

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 Academy of Information and Communications Technology, Beijing University of Posts and Telecommunications. The main drafters of this document. Fu Guoqiang, Luo Song, Huang Xiaohong. IoT Application Protocol Constrained Application Protocol (CoAP) technical requirements

1 Scope

GB/Z 41294-2022 is the Chinese national standard on internet of thing (iot) application protocol - technical requirements of the constrained application protocol (coap), 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 M32. 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 restricted application protocols, and the main contents include. overview and service characteristics of restricted application protocols, restricted application protocols The message format of the protocol, the message transmission method of the restricted application protocol, etc. This document applies to

devices with restricted application protocols.

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 endpoint endpoint Participating entities in CoAP.
- 3.2 token token Fields used to match a single application to its response.
- 3.3 sender sender The source endpoint of the message.
- 3.4 recipient recipient The destination endpoint of the message.
- 3.5 client client The source endpoint of the request message and the destination endpoint of the response message.
- 3.6 server server The destination endpoint of the request message, and the source endpoint of the response message.
- 3.7 origin server originserver The server that stores or creates the given resource.