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

GB/T 44600.2-2024

**Multimedia delivery service via IPv4/IPv6 protocol-Part 2:
Technical requirements on OTT TV content transmission
platform and terminal devices**

基于IPv4/IPv6的多媒体分发业务 第2部分：互联网电视内容传输平台及终端技术要求

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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 is required.

This document is Part 2 of GB/T 44600 Multimedia Distribution Services Based on IPv4/IPv6.GB/T 44600 has been published. The following parts.

Part 1: Technical requirements for IPTV content transmission platforms and terminals;

Part 2: Technical requirements for Internet TV content transmission platforms and terminals.

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 is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

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This document was drafted by: China Telecom Corporation Limited, China Information and Communications Technology Group Corporation Limited, China Information and Communications Research Institute Institute, ZTE Corporation, China United Network Communications Group Co., Ltd., China Mobile Communications Group Co., Ltd., China Communications Standardization Association.

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Introduction

According to the Notice on Accelerating the Scale Deployment and Application of Internet Protocol Version 6 (IPv6), in order to accelerate the improvement of government application China has formulated a series of IPv6 application standards to expand industry integration applications and promote the standardization of IPv6 large-scale deployment and application innovation results.

Among them, GB/T 44600 "Multimedia Distribution Services Based on IPv4/IPv6" is designed to standardize the IPv6 deployment of multimedia distribution services.

The standards to be formulated are planned to consist of two parts.

Part 1: IPTV content transmission platform and terminal technical requirements. The purpose is to support IPv4/IPv6 dual stack technology for IPTV services.

technology to promote the improvement of IPv6 application level.

Part 2: Internet TV content transmission platform and terminal technical requirements. The purpose is to support Internet TV business IPv4/IPv6 dual-stack technology promotes the improvement of IPv6 application level.

Multimedia distribution services based on IPv4/IPv6 Part 2: Internet TV content delivery platform Terminal technical requirements

1 Scope

This document specifies the technical requirements for Internet TV multimedia distribution services to support IPv4/IPv6 dual stack, including Internet TV content Functional requirements for transmission platforms, terminals and basic business processes.

This document is applicable to the upgrade, transformation, deployment, operation and implementation of IPv6 evolution for Internet TV content transmission platforms and Internet TV terminals. Maintenance management.

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. In this document.

GY/T 342-2021 General Technical Requirements for Internet TV YD/T 2834-2015 Technical Requirements for Domain Name System (DNS) Security Supporting IPv6 IETF RFC 2463 Internet Control Message Protocol (ICMPv6) for Internet Protocol Version 6 (IPv6) [Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6)] IETF RFC 2874 DNS Extensions to Support IPv6 Address Aggregation and Recoding dress Aggregation and Renumbering) IETF RFC 3315 Dynamic Host Configuration Protocol for IPv6 IPv6) IETF RFC 4862 IPv6 Stateless Address Autoconfiguration

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Internet TV over the top television; OTT TV

Based on the public Internet, video, audio, graphics, text and data are transmitted through terminal receiving devices such as TVs and set-top boxes.

Provide the public with safe, reliable, interactive and manageable multimedia audio-visual services.

[Source. GY/T 342-2021, 3.1.1, modified]

3.2 OTT TV terminal

Terminal equipment with the function of playing Internet audio-visual programs.

Note. Including but not limited to set-top boxes, televisions, projectors, monitors and other equipment.

[Source. GY/T 342-2021, 3.1.4, modified]