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

GB/T 46335.2-2025

**IPv6 adoption rate evaluation indicators and evaluation
methods - Part 2: Mobile internet application (APP)**

IPv6支持度评测指标与评测方法 第2部分：移动互联网应用（APP）

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 2 of GB/T 46335 "IPv

6 Support Evaluation Indicators and Methods". GB/T 46335 has been published as follows: part.

2.Mobile Internet Applications (APPs);

---Part 3: IP Backbone Networks;

5.Content Delivery Network (CDN). Please note that some content in this document may involve patents, and the issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China. This document was proposed and is under the jurisdiction of the National Telecommunications Standardization Technical Committee (SAC/TC485). This document was drafted by: China Academy of Information and Communications Technology, China United Network Communications Group Co., Ltd., and the National Computer Network Emergency Response Technical Team/Coordination Center of China. Technology Processing Coordination Center, Chengdu NetDing Technology Co., Ltd., Beijing Tonghe Shiyi Telecommunications Science and Technology Research Institute Co., Ltd., Fujian Wanwu Yilian Network Technology Co., Ltd., CERNET Corporation, Beijing National Financial Technology Certification Center Co., Ltd., National Industrial Information Security Development Research Center, Ruizhe Technology Co., Ltd., Beijing Yahong Century Technology Development Co., Ltd., Beijing Lianxing Technology Co., Ltd. The main drafters of this document are. Ge Jian, Ma Dani, Lei Lei, Liu Jianglin, Shi Guixin, Jia Shilin, Xie Gu, Huang Shu, Xie Yuyan, Zheng Xianwei, and Li Hongman. Guo Xiaomin, Yang Guoliang, Lin Fei, Chen Qi, Deng Xiong.

According to the "Notice on Accelerating the Large-Scale Deployment and Application of Internet Protocol Version 6 (IPv6)," in order to accelerate the promotion of IPv6... To facilitate large-scale deployment, my country has formulated a series of IPv6 application standards. Among them, GB/T 46335, "IPv

6 Support Evaluation Indicators and Methods," is a standard for... This document, formulated to standardize and guide the smooth progress of large-scale IPv6 deployment in my country, is proposed to consist of five parts.

1.Website. The purpose is to present the website's domain name resolution system, network connectivity, and website system performance under an IPv6 environment. The support evaluation metrics and methods are applicable to website systems that provide services to the public and support IPv6.

2.Mobile Internet Applications (APPS). The aim is to propose solutions for mobile internet applications (APPS) in terms of IPv6 usability, Evaluation metrics and assessments for IPv6 end-to-end usability, domain name IPv6 support, IPv6 completeness, and IPv6 usage stability. Methodology. Applicable to a comprehensive evaluation of IPv6 support in mobile internet applications.

---Part 3: IP Bearer Networks. The purpose is to propose and standardize the three aspects of IP bearer networks. network readiness, network quality, and network reliability. This section outlines evaluation metrics and methods for IPv6 support, applicable to IP networks carrying Internet application services and assessing their IPv6 support. The evaluation.

4.Data Centers. The purpose is to measure the impact of data centers on network traffic, network quality, and infrastructure resources. IPv6 support status, applicable to data center operators for monitoring and evaluating IPv6 support.

5.Content Delivery Network (CDN). The aim is to propose system compatibility guidelines for Content Delivery Networks (CDNs) in an IPv6 environment. Evaluation metrics and methods for IPv6 support, including quantity, resource coverage, general performance, application acceleration performance, and stability. Used for a comprehensive evaluation of the IPv6 support of content delivery network (CDN) operators. IPv

1 Scope

GB/T 46335.2-2025 is the Chinese national standard covering testing whether an app actually works on IPv6 - the resolution and connection behaviour, the third-party SDKs and CDNs it drags in that may not, the fallback to IPv4 and how often it is taken, and the score. Part 2 of the series, first edition. In force from 1 February 2026. Issued on 5 October 2025, it has been in force since 1 February 2026.

This document specifies the evaluation indicators for IPv6 support of mobile Internet applications and describes the corresponding evaluation methods. This document applies

to mobile internet environments supporting IPv6 in both single-stack IPv6 and dual-stack IPv6/IPv4 environments. application.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Smart mobile terminal Mobile communication terminal products that access public mobile communication networks, have an operating system, and allow users to install and uninstall software themselves. [Source: GB/T 34975-2017, 3.1]

3.2 Applications that run on mobile smart terminals.

Note. This includes pre-installed or downloaded applications and mini-programs on mobile smart terminals. [Source: GB/T 34975-2017, 3.3, with modifications]

3.3 domainname Domain names are used to identify a computer or group of computers on the Internet. They consist of a string of dots separated by dots. [Source: GB/T 33134-2023, 3.2]

3.4 Domain Name System A distributed internet service system that maps domain names to certain predefined types of resource records.

Note. Domain name service systems on the network cooperate with each other to ultimately resolve domain names to the corresponding resource records. [Source: GB/T 33134-2023, 3.7]

3.5 A service system that provides trusted data functionality for one or more regions.

Note. Authoritative domain name service systems store the original domain name resource records of the zones they own.