ICS 33.040.40
CCS L 78

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 45279.3-2025

IPv4/IPv6 network security protection technical specification - Part 3: Internet data center

IPv4/IPv6网络安全防护技术规范 第3部分：互联网数据中心

Issued on: February 28, 2025 **Implemented on: June 1, 2025**

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

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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.

GB/T 45279 "IPv4/IPv6 Network Security Protection Technical Specification" and GB/T 44810 "IPv6 Network Security Equipment Technical Requirements" Together they form a national standard system that supports IPv6 security.

This document is part 3 of GB/T 45279 "IPv4/IPv6 Network Security Protection Technical Specification". GB/T 45279 has been published. The following parts.

- Part 1: IP bearer network;

- Part 2: Mobile communication network;

- Part 3: Internet Data Center;

- Part 4: Content delivery networks.

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

This document is under the jurisdiction of the National Communications Standardization Technical Committee (SAC/TC485).

This document was drafted by: China Academy of Information and Communications Technology, Beijing Haohan Deep Information Technology Co., Ltd., China Telecom Group Co., Ltd.

Company, Beijing Topsec Network Security Technology Co., Ltd., National Computer Network Emergency Response Technical Processing Coordination Center, Beijing National Financial Technology Certification Center Co., Ltd., Shenzhen University, ZTE Corporation, Beijing Tonghe Shiyi Telecommunications Science and Technology Research Institute Co., Ltd., H3C Technologies Co., Ltd.

The main drafters of this document are: Dai Fangfang, He Qian, Pang Shaomin, Gong Panpan, Huang Weilong, Kang He, Kou Zengjie, Wang Yan, Zhou Jihua, Li Xiucheng, Yuan Yudong, Li Hongman, Wang Yanjuan, Jiang Kui, Wan Xiaolan.

Introduction

According to the Notice on Accelerating the Large-Scale Deployment and Application of Internet Protocol Version 6 (IPv6), in order to better cope with the complexity of the network, In order to promote the standardization of IPv6 network security work, China has formulated a series of IPv6 security Among them, GB/T 45279 "IPv4/IPv6 Network Security Protection Technical Specification" is to standardize the important network units of telecommunications networks and the Internet.

The security protection work carried out after the deployment of IPv6 is planned to be divided into the following parts.

- Part 1: IP bearer network. The purpose is to promote the security protection of IP bearer network after IPv6 is deployed.

- Part 2: Mobile communication network. The purpose is to promote the security protection of mobile communication networks after the deployment of IPv6.

- Part 3: Internet Data Center. The purpose is to promote the security protection of Internet data centers after the deployment of IPv6.

- Part 4: Content Distribution Network. The purpose is to promote the security protection of

content distribution networks after the deployment of IPv6.

IPv4/IPv6 Network Security Protection Technical Specification Part 3: Internet Data Center

1 Scope

This document specifies the security protection requirements and testing methods for Internet data centers (IDCs) in IPv4, IPv6, and dual-stack environments, including business Security, network security, host security, middleware security, physical environment security and management security.

This document is applicable to guiding the development and promotion of IDC security protection work that supports IPv4/IPv6 protocols.

2 Normative references

GB/T 18018-2019

GB/T 21050-2019

GB/T 22239-2019

GB/T 22240-2020

GB/T 29240-2012

GB/T 39680-2020

GB/T 41267-2022

GB/T 41269-2022

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 IDC services

It has broadband outlets and provides placement and agency services for users' servers, network equipment and other Internet-related equipment through outsourcing and leasing.

Maintenance, system configuration and management services, or leasing of computing, storage, software and other resources, agency leasing of communication lines and export bandwidth, and Electronic information system computer room services for other application services.

3.2 customer of IDC

Groups that purchase IDC services to meet their business needs.