

ICS 33.040
CCS L 78



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

GB/T 46285-2025

**IPv6 address assignment and coding rules - Application
infrastructure service providers**

IPv6地址分配和编码规则 应用基础设施服务商

Issued on: October 5, 2025

Implemented on: February 1, 2026

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

Table of Contents

Preface	III
1 Scope	1
2 Normative References	1
3 Terms and Definitions	1
4 Abbreviations	2
5 IPv6 address encoding format	2
5.1 General Format	2
5.2 Address Encoding Formats in Different Use Cases	2
6 IPv6 address encoding methods	4
6.1 General Requirements for IPv6 Address Encoding Methods	4
6.2 IPv6 Address Type Identifier Encoding Method	4
6.3 IPv6 Address Geographic Identifier Encoding Method	4
6.4 IPv6 Address Subnet Space Identifier Encoding Method	5
6.5 IPv6 Address Interface Identifier Encoding Method	5
References	6

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.

Please note that some content in this document may involve patents. 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 is under the jurisdiction of the National Telecommunications Standardization Technical Committee (SAC/TC485).

This document was drafted by: China Internet Network Information Center (CNNIC), China Academy of Information and Communications Technology (CAICT), Huawei Technologies Co., Ltd., and Alibaba Cloud Computing Co., Ltd.

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IPv6 address allocation and encoding rules Application infrastructure service providers

1 Scope

This document specifies the IPv6 address allocation and encoding rules for application infrastructure service providers.

This document applies to service providers offering application infrastructure services within China, including internet data centers, cloud service providers, and others.

Content delivery network service provider, domain name registration and resolution service provider.

2 Normative references

GB/T 45282-2025

3 Terms and Definitions

The terms and definitions defined in GB/T 45282-2025, as well as the following terms and definitions, apply to this document.

3.1 IPv6 address

A 128-bit identifier used to identify one or a group of IPv6 network interfaces.

[Source: GB/T 45282-2025, 3.1]

3.2

A series of consecutive bits in an IPv6 address are used to identify the address type in different scenarios.

3.3

A number of bits in an IPv6 address are used to identify geographical information such as province, city, district, and county.

3.4 datacenter

The computer facility (computer room), other infrastructure, information system hardware and software, information resources (data), personnel, and relevant regulations.

An entity composed of degrees.

[Source. GB/T 43331-2023, 3.1]

3.5 Internet Data Center

Equipped with comprehensive facilities (including high-speed internet access bandwidth, high-performance local area network, and a secure and reliable data center environment), we conduct internet...

Data center for network services.

[Source. GB/T 43331-2023, 3.2]