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

GB/T 46464-2025

**IPv6 deployment requirements for the national e-government
network**

国家电子政务外网 IPv6部署要求

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Abbreviations	2
5.Network Structure	3
6.1 Wide Area Network	4
6.2 Metropolitan Area Network	5
6.3 Routing Requirements	6
6.4 Inter-AS Network Interconnection	7
6.5 Service Quality	7
7.1 Overall Architecture	8
7.2 General Requirements	8
6 Resource Pool Requirements	9
7.4 Data exchange area requirement	10
6 Deployment	10
8 Management system and support system	10
8.1 Overview	10
8.2 Management System Requirements	10
8.3 Support System Requirements	11
9 Safety Requirements	12
9.1 Security Architecture	12
10.1 Network Structure	13
10.2 General Network Requirements	13
10.3 Terminal Requirements	13
6 Address Allocation	14
6 Address Planning and Management	14
11.1 Basic Principles	14
29 References	31

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 and is under the jurisdiction of the National Telecommunications Standardization Technical Committee (SAC/TC485). This document was drafted by: the State Information Center, Huawei Technologies Co., Ltd., the China Academy of Information and Communications Technology, and Beijing Guoxin Xinwang Communication Technology Co., Ltd. Limited Liability Company, Beijing Lianxing Technology Co., Ltd., H3C Technologies Co., Ltd. The main drafters of this document are. Xu Chunxue, Lin Qian, Jin Mengran, Zhou Hao, Zhou Zhizeng, Zhu Lei, Yang Wei, Wen Huizhi, Kang Penglong, and Wang Haiyang. Xu Juhua, Cao Huijuan, Gang Wei, Zhu Junxiang, Sun Yuezhao, Zhang Jian, Wang Tao, Zhu Xiaoping, Hou Yanxiang, Fan Dawei, Liu Yue, Du Zhengxian, He Meng, Peng Wei, Wu Zhewen, Ma Jingjing, Feng Chunxia, Gao Wei, Ge Jian, Ma Dani, Liu Yan, Lan Tianxiang, Song Xiaobo, Zhou Zhongkui, Chen Qi, Bai Chengyong, Wang Shaoshuai, Lü Zhichong and Wan Xiaolan. National e-Government Extranet IPv

1 Scope

GB/T 46464-2025 is the Chinese national standard covering moving the government extranet to IPv6 - the addressing plan and its allocation, the dual stack transition and the translation where it is unavoidable, the routing and DNS, the security policy that has to be rewritten because NAT is gone, and the acceptance testing. At 21,000 words, first edition. In force from 1 February 2026. Issued on 31 October 2025, it has been in force since 1 February 2026.

This document specifies the National E-Government Extranet Wide Area Network, the National E-Government Extranet Metropolitan Area Network, departmental e-government extranets and terminals, and e-government cloud. The IPv6 deployment requirements for applications, network security, management systems, and support systems, as well as the structure of IPv6 addresses for the national e-government extranet. Righteousness requires. This document applies to the management departments or construction and operation and maintenance units of the central and local e-government extranets, as well as the IPv6 networks of various government departments. Design, network upgrades, construction and implementation, etc.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 2260-2007 Administrative Division Codes of the People's Republic of China GB/T 44887.5-2024 IPv

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 National e-government network It serves as a repository for government departments at all levels for purposes other than those involving state secrets, such as economic regulation, market supervision, social management, public services, and environmental protection. The government public network for business application systems. Note

1. It consists of the central e-government extranet and local e-government extranets, among which the local e-government extranets are composed of the provincial e-government extranet and the (municipal) level e-government extranet. It consists of the external network for government affairs and the county (district) level e-government external network. Note

2. Vertically, it covers the central, provincial, prefectural (municipal), and county (district) levels, and horizontally connects government departments such as party committees, people's congresses, governments, CPPCC committees, procuratorates, and courts at all levels.

3.2 This network is used to enable horizontal interconnection and interoperability among government departments within the same administrative region.

3.3 A network used to enable interconnection between metropolitan area networks at different levels of administrative regions.

3.4 Departmental government network Office networks for staff of government departments at all levels.

6 Evolution Technical Requirements Part

10. Enhanced Virtual Private Networks Supporting IP Network Slicing (VPN) GB/T 44887.11-2024 IPv