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**Overall technical requirements of multi-domain IPv6-only
network**

多域IPv6单栈网络总体技术要求

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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.

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.

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The main drafters of this document are: Xie Chongfeng, Li Xing, Ma Chenhao, Li Cong, Dong Guozhen, Han Guoliang, Cao Jiguang, Gao Wei, He Xiaofeng, Song Linjian, Song Yang, Peng Shuping, Wan Xiaolan, Wang Junfang, and Feng Xiaofang.

General Technical Requirements for Multi-Domain IPv6 Single Stack Networks

1 Scope

This document specifies the scenario requirements, overall framework, addressing requirements, routing requirements, forwarding requirements, backbone network and Technical requirements for access-side collaboration, interconnection with external networks, and SRv6 support technology.

This document is applicable to the construction and operation of multi-domain IPv6 single-stack networks and the development of network equipment that supports multi-domain IPv6 single-stack networks.

2 Normative references

The contents of the following documents constitute 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 to This document.

IETF RFC7596 Lightweight 4over6.an extension to the DS-Lite architecture
capsulation(MAP-E)] translation(MAP-T)]

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 IPv6-only network

A network that uses a single IPv6 protocol stack for routing and forwarding.

Note. An IPv6 single-stack network is also called a pure IPv6 network.

3.2 IngressNode

The edge node when service data packets flow into the multi-domain IPv6 single-stack backbone network.

Note. Responsible for converting IPv4 packets into IPv6 packets.