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ICS 30.040.35
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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4785.3-2024

SRv6 Control Plane Technical Requirements - Part 3: BGP-LS Protocol Extension

SRv6控制面技术要求 第3部分：BGP-LS协议扩展

(English Translation)

Issued on: July 5, 2024 **Implemented on: October 1, 2024**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 4785.3-2024 was issued by Ministry of Industry and Information Technology on 5 July 2024 and has been in force since 1 October 2024.

It is one of 5 parts of the YD/T 4785 series.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

2 Scope Preview

This standard specifies the technical requirements for the segment routing (SRv6) network control plane based on the IPv6 data plane based on the BGP-LS protocol extension, including the node's support for SRv6, SID segment identification depth processing capability, related SIDs, SID length description, related Locator routes and other information. This standard is applicable to the scenario where network devices supporting SRv6 functions use BGP-LS to implement control plane information interaction, and is also applicable to the technical development and testing of network devices supporting SRv6.

YD/T 4785.3-2024 is filed under Chinese Standard Classification L78, in the field of electronic components and information technology.

This catalogue holds 2,288 other YD/T standards without an ICS number.

In this catalogue, YD/T standards carry edition years from 1982 to 2026.

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3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Other parts of this standard:

YD/T 4785.1-2024 - Part 1: ISIS Protocol Extensions

YD/T 4785.2-2024 - Part 2: OSPFv3 Protocol Extensions

YD/T 4785.4-2024 - Part 4: BGP SRv6 Policy Protocol Extension

YD/T 4785.5-2024 - Part 5: PCEP Protocol Extensions

Standards on related subjects:

CJ/T 188-2018 - Technical requirements of utility meters data transmission

YDC 079-2009 - Technical Specifications and Testing Methods of Wireless LAN for Mobile Terminals

5 Classification and status

International classification (ICS): 30.040.35

Chinese Standard Classification (CCS): L 78

Prefix YD/T: recommended standard.

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