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ICS 30.040.35
CCS L78

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4785.5-2024

SRv6 Control Plane Technical Requirements - Part 5: PCEP Protocol Extensions

SRv6控制面技术要求 第5部分：PCEP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 4785.5-2024 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 extension of the path computation unit communication protocol (PCEP) in the segment routing (SRv6) network control plane based on the IPv6 data plane, including the extension of existing fields to announce the SRv6 TE path creation capability, the addition of TLV/Subobject to announce the SRv6 capability and SRv6 SID information, etc. This standard is applicable to the scenario where the PCEP protocol is used to implement SRv6 Policy in the SRv6 network, and is also applicable to the development and testing of network equipment and controllers that support SRv6.

YD/T 4785.5-2024 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.

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

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 4785.3-2024 - Part 3: BGP-LS Protocol Extension

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

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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