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ICS 33.040.40
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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6054-2024

Technical requirements for network fault protection based on SRv6

基于SRv6网络故障保护技术要求

(English Translation)

Issued on: October 24, 2024 **Implemented on: February 1, 2025**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 6054-2024 was issued by Ministry of Industry and Information Technology on 24 October 2024 and has been in force since 1 February 2025.

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.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the key technologies and requirements for SRv6 network fault protection, including SRv6 topology-independent loop-free backup path technology (TI-LFA), designated intermediate node protection technology, tail node protection technology, anti-microloop technology, and SRv6 end-to-end protection technology. This standard applies to common network fault scenarios under SRv6 networking, including SRv6 BE node/link failure, SRv6 Policy intermediate node/tail node failure, microloop and SRv6 Policy fault scenarios.

YD/T 6054-2024 falls under ICS 33.040.40, in the field of telecommunications.

This catalogue holds 3,420 other YD/T standards in that field.

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

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

YD/T 6045-2024 - Computing Network - Technical requirements for computing power routing protocol

YD/T 6046-2024 - Computing Network - Technical requirements for computing network orchestration management

YD/T 6044-2024 - Computing Network - Technical requirements for computing power measurement and computing power modeling

5 Classification and status

International classification (ICS): 33.040.40

Chinese Standard Classification (CCS): L 78

Prefix YD/T: recommended standard.

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