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ICS 33.040
CCS M11

YD

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

YD/T 4805-2024

Time-Sensitive Networking (TSN) over Internet Protocol and Multiprotocol Label Switching (IP

时间敏感网络（TSN） over 互联网协议及多协议标签交换（IP&MPLS）网络数据面技术要求

(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 4805-2024 was issued by Ministry of Industry and Information Technology on 5 July 2024 and has been in force since 1 October 2024.

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 time-sensitive network (TSN) over multi-protocol label switching (MPLS) deterministic data plane technology and TSN over SR-MPLS data plane technology. At the same time, the appendix also specifies the scenario of IP/MPLS network over TSN network and specifies the relevant technical requirements. This standard is applicable to the TSN over DetNet MPLS deterministic network networking application scenario and does not involve SRv6 related content.

YD/T 4805-2024 falls under ICS 33.040, 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:

GB/T 41301-2022 - Management requirements of IPv6 address in intelligent manufacturing environments

YD/T 1730-2008 - Implementation Guide for Security Risk Assessment of Telecom Network and Internet

YD/T 1548.1-2007 - 2GHz WCDMA digital cellular mobile communication network terminal equipment testing method (second stage) - Part 1: Basic functions, operations and performance testing

YD/T 6641-2026 - Industrial Internet edge computing - Edge gateway technical requirements and test methods

YD/T 4813-2024 - Technical requirements for flexible optimal path algorithm supporting IP network slicing

YD/T 4812-2024 - Technical requirements for virtual extension access system of service router

5 Classification and status

International classification (ICS): 33.040

Chinese Standard Classification (CCS): M 11

Prefix YD/T: recommended standard.

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