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ICS 33.040.20
CCS M14

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6438-2025

Technical requirements for control and management of Optical Service Unit (OSU) and fine grain Optical Transport Network (fgOTN) Based OTN

基于光业务单元（OSU）和细粒度OTN（fgOTN）的光传送网（OTN）管控技术要求

(English Translation)

Issued on: July 2, 2025 **Implemented on: November 1, 2025**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 6438-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 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 technical requirements for the management and control of optical transport networks (OTN) based on Optical Service Units (OSUs) and fine-grained OTNs (fgOTNs), including the overall requirements for OTN network management and control based on OSUs/fgOTNs, OSU/fgOTN management and control functions, and protocol technical requirements. This standard applies to the development and testing of single-domain OTN management and control systems and equipment software based on OSUs/fgOTNs.

YD/T 6438-2025 falls under ICS 33.040.20, 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:

YZ/T 0173-2020 - Specifications for regulatory data access of intelligent mail and parcel locker and intelligent self-express service machine

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 6704-2026 - Technical requirements for Mk interface of Quantum Key Distribution (QKD) network

YD/T 6551-2025 - Identification and resolution system for the Industrial Internet - The interface technical requirements for the recursive node

5 Classification and status

International classification (ICS): 33.040.20

Chinese Standard Classification (CCS): M 14

Prefix YD/T: recommended standard.

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