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ICS 33.040.20
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4611-2023

Overall technical requirements for software-defined optical network (SDON) management and control system (MCS)

软件定义光网络（SDON）管控系统（MCS）总体技术要求

(English Translation)

Issued on: December 20, 2023 **Implemented on: April 1, 2024**

Issued by: Ministry of Industry and Information Technology

Preview: page 1 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-4611-2023

Table of Contents

[Preview only]
1 Scope
2 Normative references
3 Abbreviations
3.1 Terms and definitions
4 General
4.1 Test environment
4.2 UE Information
4.3 Test Implementation
5 Technical requirements

1 Foreword

YD/T 4611-2023 was issued by Ministry of Industry and Information Technology on 20 December 2023 and has been in force since 1 April 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 system architecture, functional requirements, MC component functions and interaction models of the Software Defined Optical Network (SDON) management and control system (MCS), the request interaction process of multi-layer and multi-domain management and control services, as well as the MCS management and control performance requirements and reliability. requirements and security requirements, etc. This standard is applicable to the development, design, testing and verification of SDON management and control systems; and is applicable to networks whose transmission plane adopts SPN, PTN, OTN and other transmission technologies.

YD/T 4611-2023 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:

YD/T 2554.1-2013 - Plastic optical fiber connector - Part 1: Type LC

GB/T 9771.1-2008 - Single-mode optical fibres for telecommunication -- Part 1: Characteristics of a dispersion unshifted single-mode optical fibre

GB/T 18480-2001 - Specification for submarine optical fiber cables

YD/T 4612-2023 - Technical requirements for time difference return transmission based on satellite and PTP synchronization

YD/T 4610-2023 - Sliced Packet Network (SPN) fine-grained bearer technical requirements

YD/T 4609-2023 - Slice Packet Network (SPN) Southbound Interface Test Method

5 Classification and status

International classification (ICS): 33.040.20

Chinese Standard Classification (CCS): M 33

Prefix YD/T: recommended standard.

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