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ICS 33.040.20
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4299-2023

Interface Requirements Between Controller Layers of Software-Defined Optical Transport Network (SDOTN) Based on Traffic Engineering Abstraction and Control of Networks (ACTN)

基于流量工程网络抽象与控制（ACTN）的软件定义光传送网（SDOTN）控制器层间接口要求

(English Translation)

Issued on: April 21, 2023 **Implemented on: August 1, 2023**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 4299-2023 was issued by Ministry of Industry and Information Technology on 21 April 2023 and has been in force since 1 August 2023.

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 inter-layer interface requirements for software-defined optical transport network (SDOTN) controllers based on Traffic Engineering Network Abstraction and Control (ACTN), including MMI interface overview, MMI interface functional requirements, MMI interface format description, MMI interface data model, Functional interface, etc. This standard is applicable to the cascading scenario of ACTN's software-defined optical transport network MDSC controller to realize resource collection, service provisioning and maintenance functions.

YD/T 4299-2023 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 4302.3-2024 - Quantum Key Distribution (QKD) Network - Technical requirements for network management - Part 2: Metal furniture

YD/T 4305.4-2024 - Optical-electrical hybrid connectors for communications - Part 4: Type XC

YD/T 4305.2-2024 - Optical-electrical hybrid connectors for communications - Part 2: Duplex LC type

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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