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ICS 33.030
CCS M21

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6176-2024

Network equipment testing method supporting OpenFlow protocol - Ethernet switch

支持OpenFlow协议的网络设备测试方法 以太网交换机

(English Translation)

Issued on: December 10, 2024 **Implemented on: April 1, 2025**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 6176-2024 was issued by Ministry of Industry and Information Technology on 10 December 2024 and has been in force since 1 April 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 test methods for Ethernet switches supporting the OpenFlow protocol, including basic equipment function testing, performance testing, network management function testing, reliability testing and stability testing. This standard applies to the design, production, operation and maintenance and testing of switch equipment supporting the OpenFlow protocol, including pure OpenFlow switches and OpenFlow switches supporting mixed mode.

YD/T 6176-2024 falls under ICS 33.030, 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 3909-2021 - Vehicle emergency call system based on public telecommunication network - Requirements and architecture

YD/T 3910-2021 - Vehicle emergency call system based on public telecommunication network - Technical requirements and test method of the vehicle emergency rescue platform

YD/T 1761-2012 - Technical requirements for web accessibility

YD/T 6643-2026 - Computing power network and application for industrial Internet - General technical requirements

YD/T 6174-2024 - Technical requirements for Border Gateway Protocol/Multiprotocol Label Switching Ethernet Virtual Private Network (BGP/MPLS EVPN)

YD/T 6175-2024 - Technical requirements for network equipment supporting the Openflow protocol - Ethernet switch

5 Classification and status

International classification (ICS): 33.030

Chinese Standard Classification (CCS): M 21

Prefix YD/T: recommended standard.

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