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ICS 33.040.20
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4612-2023

Technical requirements for time difference return transmission based on satellite and PTP synchronization

基于卫星和PTP同步的时间差值回传技术要求

(English Translation)

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

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4612-2023

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1 Foreword

YD/T 4612-2023 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 time difference between satellite timing and PTP synchronization between the base station and the backhaul network equipment, the message encapsulation, message content and message sending frequency of the backhaul interface protocol, as well as the base station equipment, backhaul network equipment and transmission Requirements for the differential return function of the network management and control system. This standard is suitable for real-time monitoring of the PTP status of the transmission network and the GNSS and PTP synchronization performance of the base station using the difference between the time acquired by the base station using GNSS and the time acquired by PTP.

YD/T 4612-2023 falls under ICS 33.040.20, in the field of telecommunications.

This catalogue holds 3,420 other YD/T standards in that field.

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In this catalogue, YD/T standards carry edition years from 1982 to 2026.

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 4611-2023 - Overall technical requirements for software-defined optical network (SDON) management and control system (MCS)

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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