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ICS 33.180
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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4302.1-2023

Quantum Key Distribution (QKD) Network Management Technical Requirements - Part 1: Network Management System (NMS) Functions

量子密钥分发（QKD）网络 网络管理技术要求 第1部分：网络管理系统（NMS）功能

(English Translation)

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

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4302-1-2023

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1 Foreword

YD/T 4302.1-2023 was issued by Ministry of Industry and Information Technology on 21 April 2023 and has been in force since 1 August 2023.

It is one of 4 parts of the YD/T 4302 series.

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.

2 Scope Preview

This standard specifies the functional requirements for the network management system (NMS) in the quantum key distribution (QKD) network, including the NMS management architecture and specific functional requirements. This standard applies to the design and development of network management systems for quantum key distribution networks.

YD/T 4302.1-2023 falls under ICS 33.180, 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.

3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

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English translation: about 15 pages (approximate)

4 Related standards

Other parts of this standard:

YD/T 4302.2-2024 - Technical requirements for network management - Part 10: Engineering vehicles

YD/T 4302.3-2024 - Technical requirements for network management - Part 2: Metal furniture

YD/T 4302.5-2025 - Technical specification for Quantum Key Distribution(QKD) network management - Part 5: EMS function

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

5 Classification and status

International classification (ICS): 33.180

Chinese Standard Classification (CCS): M 33

Prefix YD/T: recommended standard.

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