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ICS 33.040.20
CCS M19

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4302.5-2025

Technical specification for Quantum Key Distribution(QKD) network management - Part 5: EMS function

量子密钥分发（QKD）网络 网络管理技术要求 第5部分：网元管理系统（EMS）功能

(English Translation)

Issued on: July 2, 2025 **Implemented on: November 1, 2025**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 4302.5-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 2025.

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 of the Element Management System (EMS) in a quantum key distribution (QKD) network, including resource management, topology management, configuration management, fault management, performance management, maintenance management, and security management. This standard applies to the design, research and development, testing, and operation and maintenance of the Element Management System (EMS) in a quantum key distribution (QKD) network.

YD/T 4302.5-2025 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

Other parts of this standard:

YD/T 4302.1-2023 - Quantum Key Distribution (QKD) Network Management Technical Requirements - Part 1: Network Management System (NMS) Functions

YD/T 4302.2-2024 - Quantum Key Distribution (QKD) Network - Technical requirements for network management - Part 10: Engineering vehicles

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

Standards on related subjects:

YZ/T 0173-2020 - Specifications for regulatory data access of intelligent mail and parcel locker and intelligent self-express service machine

YD/T 1730-2008 - Implementation Guide for Security Risk Assessment of Telecom Network and Internet

YD/T 1548.1-2007 - 2GHz WCDMA digital cellular mobile communication network terminal equipment testing method (second stage) - Part 1: Basic functions, operations and performance testing

5 Classification and status

International classification (ICS): 33.040.20

Chinese Standard Classification (CCS): M 19

Prefix YD/T: recommended standard.

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