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ICS 33.040
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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4435-2023

Internet of Things communication architecture based on information center network and blockchain

基于信息中心网络和区块链的物联网通信架构

(English Translation)

Issued on: July 28, 2023 **Implemented on: November 1, 2023**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4435-2023

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1 Foreword

YD/T 4435-2023 was issued by Ministry of Industry and Information Technology on 28 July 2023 and has been in force since 1 November 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 IoT data communication architecture based on central network (ICN) and blockchain, including IoT data sharing requirements based on ICN and blockchain, as well as data sharing network functional architecture, data sharing network physical architecture, data sharing Network interface technical requirements. This standard applies to the planning, design, construction and application of IoT data sharing networks based on ICN and blockchain.

YD/T 4435-2023 falls under ICS 33.040, 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:

GB/T 41301-2022 - Management requirements of IPv6 address in intelligent manufacturing environments

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

YD/T 6641-2026 - Industrial Internet edge computing - Edge gateway technical requirements and test methods

YD/T 4429-2023 - Network Function Virtualization Orchestrator (NFVO) technical requirements Intelligent deployment of virtual network functions

YD/T 4428-2023 - Trusted network classification technical requirements

5 Classification and status

International classification (ICS): 33.040

Chinese Standard Classification (CCS): M 11

Prefix YD/T: recommended standard.

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