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ICS 33.040.40
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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4427-2023

Network modeling technical specifications under the framework of Traffic Cyber-Physical System (T-CPS)

交通信息物理系统（T-CPS）框架下的网络建模技术规范

(English Translation)

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

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 4427-2023 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 technical specifications for network modeling of transportation cyber-physical systems (T-CPS), and specifies the overall requirements for complex network models and functional technical requirements for modules such as data preparation module, network modeling module, visualization module, and decision support module.. This standard is applicable to information analysis and correlation analysis of transportation systems, multi-layer, multi-dimensional, time-varying complex network modeling, statistical visualization of dynamic time-varying characteristics, and collaborative control.

YD/T 4427-2023 falls under ICS 33.040.40, 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 2375-2019 - Technical requirements for high accuracy time synchronization

JT/T 1076-2016 - GNSS System for Operating Vehicles - Technical Specifications for Vehicle Video Terminal

YD/T 2554.1-2013 - Plastic optical fiber connector - Part 1: Type LC

YD/T 4426-2023 - Bit index based display replication network traffic engineering technical requirements

YD/T 4421-2023 - SR-based multicast technical requirements

YD/T 4418-2023 - Overall architecture and technical requirements of deterministic IP networks for telecommunications networks

5 Classification and status

International classification (ICS): 33.040.40

Chinese Standard Classification (CCS): M 32

Prefix YD/T: recommended standard.

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