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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4654-2024

Industrial Internet Software-Defined Factory Network Forwarding Layer Model and Technical Requirements

工业互联网 软件定义的工厂内网络 转发层模型与技术要求

(English Translation)

Issued on: March 29, 2024 **Implemented on: July 1, 2024**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 4654-2024 was issued by Ministry of Industry and Information Technology on 29 March 2024 and has been in force since 1 July 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 forwarding model, parser technical requirements, match-action pipeline technical requirements, scheduler technical requirements, programmable technical requirements and southbound interface technical requirements for software-defined factory networks. This standard applies to software-defined industrial communication network forwarding layer equipment for factory measurement, monitoring and control, and is the main technical basis for the development, design, production, testing, acceptance and procurement of software-defined factory network forwarding layer products.

YD/T 4654-2024 falls under ICS 35.11, in the field of information technology.

This catalogue holds 725 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 4653-2024 - Industrial Internet software-defined factory network management layer model and technical requirements

YD/T 4652-2024 - Industrial Internet software-defined factory network architecture and overall technical requirements

5 Classification and status

International classification (ICS): 35.11

Chinese Standard Classification (CCS): M 11

Prefix YD/T: recommended standard.

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