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ICS 33.040.40
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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4431-2023

Interdomain Path Validation (IDPV) Technical Requirements Data Plane

域间路径验证（IDPV）技术要求 数据平面

(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 4431-2023 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 requirements for the data plane in inter-domain path verification (IDPV), including dynamic label synchronization, source user path verification strategy generation and implementation, routing node authentication code calculation and verification, destination user execution path verification, etc. This standard applies to the true path verification scheme between IPv6 Internet management domains.

YD/T 4431-2023 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:

GB/T 17969.1-2015 - Information technology -- Open systems interconnection -- Procedures for the operation of OSI registration authorities -- Part 1: General procedures and top arcs of the International Object Identifier tree

GB/T 17143.7-1997 - Information technology. Open Systems Interconnection. Systems Management. Part 7: Security alarm reporting function

GB/T 17143.4-1997 - Information technology. Open Systems Interconnection. Systems Management. Part 4: Alarm reporting function

YD/T 4432.6-2026 - Technical requirements for the inter-domain source address validation (SAVA-X) - Part 6: operation, administration, and maintenance (OAM)

YD/T 4432.1-2023 - Source Address Authentication Between Domains (SAVA-X) Technical Requirements - Part 1: Control Plane

YD/T 4430-2023 - Interdomain Path Validation (IDPV) Technical Requirements Control Plane

5 Classification and status

International classification (ICS): 33.040.40

Chinese Standard Classification (CCS): L 79

Prefix YD/T: recommended standard.

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