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ICS 33.040.40
CCS L78

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6166-2024

Technical requirements for key-hash message authentication codes for Internet domain name zone file transfers

互联网域名区文件传送密钥散列消息认证码技术要求

(English Translation)

Issued on: December 10, 2024 **Implemented on: April 1, 2025**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 6166-2024 was issued by Ministry of Industry and Information Technology on 10 December 2024 and has been in force since 1 April 2025.

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 message authentication codes in the transmission of Internet domain name zone files, including the specific algorithm of key hash message authentication codes. This standard is applicable to the scenario where message authentication codes are used in domain name zone file transmission through key transaction authentication (TSIG), and is not applicable to the methods and protocols for zone file transmission based on secure channels such as TLS/TLCP.

YD/T 6166-2024 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:

CJ/T 188-2018 - Technical requirements of utility meters data transmission

YDC 079-2009 - Technical Specifications and Testing Methods of Wireless LAN for Mobile Terminals

YD/T 6171-2024 - Technical requirements for domain name registration information filing

YD/T 6162-2024 - Technical requirements for IPTV user behavior analysis system

YD/T 6170-2024 - Domain Name System Operation Test Method

5 Classification and status

International classification (ICS): 33.040.40

Chinese Standard Classification (CCS): L 78

Prefix YD/T: recommended standard.

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