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ICS 01.100.27
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YD

# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# YD/T 6498-2025

## IoT- Requirements and scenarios for road digital twin

物联网 面向道路的数字孪生需求与场景

**(English Translation)**

**Issued on: July 2, 2025** **Implemented on: November 1, 2025**

**Issued by: Ministry of Industry and Information Technology**

Preview: page 1 of 3 shown, 15 in the full document. Complete English PDF, instant download:
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# Table of Contents

[Preview only]
1 Scope
2 Normative references
3 Abbreviations
3.1 Terms and definitions
4 General
4.1 Test environment
4.2 UE Information
4.3 Test Implementation
5 Requirements

## 1 Foreword

YD/T 6498-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 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 requirements, scenario classification system, and semantic representation of scenario digital twins for roads, and provides examples of business objects and process elements for typical business scenarios. This document applies to the semantic representation and application of road-oriented digital twin scenarios.

YD/T 6498-2025 falls under ICS 01.100.27, in the field of generalities, terminology and documentation.

This catalogue holds 85 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 32910.3-2016 - Data centre - Resource utilization - Part 3: Energy usage effectiveness requirements and measuring methods

YD/T 983-2013 - Limits and methods of measurement of electromagnetic compatibility of telecommunicatin power supply equipment

YD/T 6775-2026 - Security technical requirements for white box switch

YD/T 5275-2026 - Green technical requirements of information and communication Engineering

YD/T 6499-2025 - Technical requirements of Internet of Things terminal for network quality monitoring

## 5 Classification and status

International classification (ICS): 01.100.27

Chinese Standard Classification (CCS): L 04

Prefix YD/T: recommended standard.



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