SLOVENSKI STANDARD
SIST-TS CEN/TS 16157-11:2025

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Inteligentni transportni sistemi - Specifikacije za izmenjavo podatkov DATEX II pri upravljanju prometa in informiranju - 11. del: Objava strojno interpretiranih prometnih predpisov

Intelligent transport systems - DATEX II data exchange specifications for traffic management and information - Part 11: Publication of machine interpretable traffic regulations

Intelligente Verkehrssysteme - DATEX II Datenaustauschspezifikation für Verkehrsmanagement und Verkehrsinformation - Teil 11: Publikation von maschineninterpretierbaren Verkehrsregeln

Systèmes de transport intelligents — Spécifications Datex II d'échange de données pour la gestion du trafic et l'information routière — Partie 11 : Publication des arrêtés de circulation sous forme exploitable par ordinateur

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35.240.60	Uporabniške rešitve IT v prometu	IT applications in transport

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This Technical Specification (CEN/TS) was approved by CEN on 15 September 2025 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. CEN/TS 16157-11:2025 E

Contents

Page

European foreword

This document (CEN/TS 16157-11:2025) has been prepared by Technical Committee CEN/TC 278 “Intelligent transport systems”, the secretariat of which is held by NEN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TS 16157-11:2022.

CEN/TS 16157-11:2025 includes the following significant technical changes with respect to CEN/TS 16157-11:2022:

— introduction of a new model for controlled zones;

— remodelling of some classes from the traffic regulation model for the use in the controlled zone model;

— addition of a publication model for predefined conditions;

— addition of a publication model for warnings that are not subject to traffic regulations;

— correction of different bugs.

The EN 16157 series consists of several parts under the general title “Intelligent transport systems — DATEX II data exchange specifications for traffic management and information”. Other parts may be developed in the future.

A list of all parts in a series can be found on the CEN website: www.cencenelec.eu.

Attention is drawn to the resources of www.datex2.eu. This web site contains related software tools and software resources that aid the implementation of EN 16157 DATEX II.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

This document defines a common set of data exchange specifications to support the vision of a seamless interoperable exchange of road traffic and travel information across boundaries, including national, urban, interurban, road administrations, infrastructure providers and service providers. Standardization in this context is a vital constituent to ensure interoperability, reduction of risk, reduction of the cost base, promotion of open marketplaces and many social, economic and community benefits to be gained from more informed travellers, network managers and transport operators.

Deploying intelligent transport systems in line with European Sustainable and Smart Mobility Strategy as issued by the European Commission requires co-ordination of traffic management operation and development of seamless pan-European information services. These jointly aim at contributing to the transformation of the European transport system for the objectives of efficient, safe, sustainable, smart and resilient mobility.

In this context the European Commission has been supporting the development of information exchange between the actors of road traffic management and related services for several years. In the road sector, DATEX II has been long in fruition, with the European Commission being fundamental to its development through an initial contract and subsequent co-funding of the further evolution of the standard and user support ecosystem. With this standardization of DATEX II, there is a real basis for common exchange between the actors of the traffic and travel information sector both in the collaboration between traffic management organisations and their systems, as well as in coherent information provision to service providers. DATEX II supports the requirements of the stakeholder organisations involved in the road traffic and travel domain in compliance with the EU policy and legal frameworks aimed at the sector.

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This European Standard includes the framework and context for exchanges, the modelling approach, data content, data structure and relationships.

This European Standard supports a methodology that is extensible.

The 11th part of the CEN/TS 16157- EN 16157 series (this Technical Specification) deals with information on traffic regulations and controlled zones. It defines two DATEX II namespaces “TrafficRegulation” and "ControlledZone".

In normative Annex A, the data dictionary for the «D2Namespace» TrafficRegulation is specified.

In normative Annex B, the data dictionary for the «D2Namespace» ControlledZone is specified.

In normative Annex C, the data dictionary for the «D2Namespace» Extension is specified.

In normative Annex D, the referenced XML schemas for the «D2Namespace» TrafficRegulation and the «D2Namespace» ControlledZone are specified.