

STN P	Inteligentné dopravné systémy Špecifikácie výmeny dát v DATEX II pre riadenie dopravy a dopravné informácie Časť 11: Zverejňovanie strojovo interpretovateľných dopravných predpisov	STN P CEN/TS 16157-11 01 8594
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Intelligent transport systems - DATEX II data exchange specifications for traffic management and information - Part 11:
Publication of machine interpretable traffic regulations

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/25

Táto predbežná slovenská technická norma je určená na overenie. Prípadné pripomienky pošlite do októbra 2027 Úradu pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky.

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English Version

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

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

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

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

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CEN/TS 16157-11:2025 (E)

Contents	Page
European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 Symbols and abbreviations	7
5 Conformance.....	7
6 UML notation	8
7 «D2Namespace» TrafficRegulation	8
7.1 Overview	8
7.2 «D2Package» TrafficRegulationPublication	9
7.3 «D2Package» PredefinedConditionPublication.....	12
7.4 «D2Package» WarningPublication	13
7.5 «D2Package» Classes	14
7.6 Data types	26
8 «D2Namespace» ControlledZone	26
8.1 Overview	26
8.2 «D2Package» ControlledZonePublication	27
8.3 «D2Package» Classes	30
9 Extension namespaces	34
9.1 Overview	34
9.2 «D2Namespace» CommonExtension.....	34
9.3 «D2Namespace» LocationExtension	40
Annex A (normative) Data Dictionary for «D2Namespace» TrafficRegulation	41
A.1 Overview	41
A.2 Data Dictionary for "TrafficRegulation"	42
A.3 Data Dictionary of <<D2Datatype>> for "TrafficRegulation"	69
A.4 Data Dictionary of <<D2Enumeration>> for "TrafficRegulation"	70
Annex B (normative) Data Dictionary for «D2Namespace» ControlledZone	88
B.1 Overview	88
B.2 Data Dictionary for "ControlledZone"	89
B.3 Data Dictionary of <<D2Datatype>> for "ControlledZone"	96
B.4 Data Dictionary of <<D2Enumeration>> for "ControlledZone"	97
Annex C (normative) Data Dictionary for «D2Namespace» Extension.....	102
C.1 Overview	102
C.2 Data Dictionary for "Extension"	103

C.3	Data Dictionary of <<D2Datatype>> for "Extension"	111
C.4	Data Dictionary of <<D2Enumeration>> for "Extension"	111
	Annex D (normative) Referenced XML schema	132
D.1	Overview	132
D.2	Schema for «D2Namespace» TrafficRegulation.....	132
D.3	Schema for «D2Namespace» ControlledZone.....	154
D.4	Schema for «D2Namespace» CommonExtension	160
D.5	Schema for «D2Namespace» LocationExtension.....	168
	Bibliography	169

CEN/TS 16157-11:2025 (E)**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.

CEN/TS 16157-11:2025 (E)**1 Scope**

This document specifies a publication sub-model within the DATEX II model that supports the publication of electronic traffic regulations and controlled zones.

This publication is intended to support the exchange of informational content from road traffic authorities issuing traffic regulation orders and organizations implementing these orders to other organizations providing ITS services or onward information exchange.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 16157-1:2018, *Intelligent transport systems — DATEX II data exchange specifications for traffic management and information — Part 1: Context and framework*

EN 16157-2:2019, *Intelligent transport systems — DATEX II data exchange specifications for traffic management and information — Part 2: Location referencing*

CEN/TS 16157-4:2021, *Intelligent transport systems — DATEX II data exchange specifications for traffic management and information — Part 4: VMS publication*

EN 16157-7:2018, *Intelligent transport systems — DATEX II data exchange specifications for traffic management and information — Part 7: Common data elements*

EN ISO 14823-1, *Intelligent transport systems — Graphic data dictionary — Part 1: Specification (ISO 14823-1)*

ISO 8601-1, *Date and time — Representations for information interchange — Part 1: Basic rules*

ISO/IEC 19505-1, *Information Technology — Object Management Group Unified Modeling Language (OMG UML) – Part 1: Infrastructure*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN