



NSAI
Standards

Irish Standard Recommendation
S.R. CEN/TS 16157-8:2020

Intelligent transport systems - DATEX II
data exchange specifications for traffic
management and information - Part 8:
Traffic management publications and
extensions dedicated to the urban
environment

S.R. CEN/TS 16157-8:2020

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National Foreword

S.R. CEN/TS 16157-8:2020 is the adopted Irish version of the European Document CEN/TS 16157-8:2020, Intelligent transport systems - DATEX II data exchange specifications for traffic management and information - Part 8: Traffic management publications and extensions dedicated to the urban environment

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TECHNICAL SPECIFICATION

CEN/TS 16157-8

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English Version

**Intelligent transport systems - DATEX II data exchange
specifications for traffic management and information -
Part 8: Traffic management publications and extensions
dedicated to the urban environment**

Systèmes de transport intelligents - DATEX II
Spécification des échanges de données pour la gestion
du trafic et l'information routières - Partie 8:
Publications et extensions pour la gestion du trafic
dédiées à l'environnement urbain

Intelligente Verkehrssysteme - DATEX II
Datenaustauschspezifikationen für
Verkehrsmanagement und Verkehrsinformationen -
Teil 8: Verkehrsmanagement-Publikationen und
Erweiterungen für das städtische Umfeld

This Technical Specification (CEN/TS) was approved by CEN on 10 February 2020 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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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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CEN/TS 16157-8:2020 (E)

European foreword

This document (CEN/TS 16157-8:2020) 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.

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Introduction

This document defines a common set of data exchange specifications to support the vision of a seamless interoperable exchange of 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 that interoperability, reduction of risk, reduction of the cost base and promotion of open marketplace objectives are achieved that will lead to many social, economic and community benefits as a result of more informed travellers, network managers and transport operators.

With the aim to support sustainable mobility in Europe, the European Commission has been supporting the development of information exchange mainly between the actors of the road traffic management domain for a number of 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 cofunding through the Euro-Regional projects, and well as support for Programme Support Action activities.

DATEX II is referenced within European regulations:

- EU Commission Delegated Regulation, (EU) 2015/962 of 18 December 2014 regarding the provision of EU-wide real-time traffic information services,
- EU Commission Delegated Regulation, (EU) 2013/885 of 15 May 2013 regarding the provision of information services for safe and secure parking places for trucks and commercial vehicles,
- EU Commission Delegated Regulation, (EU) 2013/886 of 15 May 2013 regarding data and procedures for the provision, where possible, of road safety-related minimum universal traffic information free of charge to users,
- EU Commission Delegated Regulation, (EU) 1926/2017 of 31 May 2017 regarding the provision of EU-wide multimodal travel information services.

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

This document supports a methodology that is extensible.

This document, which is Part 8 for the CEN 16157 series, provides:

- extensions to existing DATEX II publications, to better support use within an urban context. The extensions are specified as Level B Extensions to the DATEX II model.
- a specification for the publication of rerouting information to enhance the corresponding existing DATEX II structure
- a specification for the publication of traffic management plans extending the existing DATEX II core model to better support application to the urban environment.

The specification for the publication of traffic management plans draws on work undertaken within the DATEX II Programme Support Action tasks, supported by the European Commission, and other related project work undertaken on these topics.

The present document was developed by project team PT1709 funded by the European Commission under grant agreement SA/CEN/GROW/EFTA/546/2016-10 'Urban ITS - Traffic Management Data Models and interfaces' (M/546 [2]).

CEN/TS 16157-8:2020 (E)

1 Scope

This document constitutes a Part of the CEN 16157 DATEX II series of standards and technical specifications. This series specifies and defines component facets supporting the exchange and shared use of data and information in the field of traffic and travel. The component facets include the framework and context for exchanges, the modelling approach, the data content, the data structure and relationships and the communications specification.

Part 8, this document, specifies additional data model structures that are applicable for traffic management applications in the urban environment. This Part addresses data concepts to support the exchange of traffic management plans, rerouting, extensions of the existing DATEX II core model to better support application to the urban environment.

It establishes specifications for data exchange between any two instances of the following actors:

- Traffic Information Centres (TICs),
- Traffic Control Centres (TCCs),
- Service Providers (SPs).

Use of this document may be applicable for use by other actors.

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 16157-2:2018, *Intelligent transport systems — DATEX II data exchange specifications for traffic management and information — Part 2: Location Referencing*

EN 16157-3:2018, *Intelligent transport systems - DATEX II data exchange specifications for traffic management and information - Part 3: Situation Publication*

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

ISO/IEC 19505-1:2012, *Information technology — Object Management Group Unified Modeling Language (OMG UML) — Part 1: Infrastructure*

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