

Intelligent transport systems - DATEX II data exchange specifications for traffic management and information - Part 5: Measured and elaborated data publications

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

**Intelligent transport systems - DATEX II data exchange
specifications for traffic management and information -
Part 5: Measured and elaborated data publications**

Systèmes de transport intelligents - Spécifications
Datex II d'échange de données pour la gestion du trafic
et l'information routière - Partie 5 : Publications de
données mesurées et de données calculées

Intelligente Verkehrssysteme - DATEX II
Datenaustauschspezifikation für Verkehrsmanagement
und Verkehrsinformation - Teil 5: Gemessene und
ausgearbeitete Datenveröffentlichungen

This European Standard was approved by CEN on 29 June 2020.

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

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European foreword

This document (EN 16157-5:2020) has been prepared by Technical Committee CEN/TC 278 “Intelligent transport systems”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2021, and conflicting national standards shall be withdrawn at the latest by February 2021.

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 16157-5:2014.

In comparison with the previous edition, the following technical modifications have been made:

- application of the modelling methodology defined in EN 16157-1,
- correction of bugs,
- addition of requested features,
- removal of redundancy between elaborated and measured data publications.

A list of all parts in the EN 16157 series can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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, Turkey and the United Kingdom.

Introduction

The EN 16157 series 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 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.

Delivering European Transport Policy in line with the White Paper issued by the European Commission requires co-ordination of traffic management and development of seamless pan European services. 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 co-funding through the Euro-Regional projects. With this standardization of DATEX II, there is a real basis for common exchange between the actors of the traffic and travel information sector.

EN 16157 includes the framework and context for exchanges, the modelling approach, data content, data structure and relationships.

It supports a methodology that is extensible.

This document deals with the publication sub-models within the DATEX II model that support the exchange of measured and elaborated information. These publications are intended to support the exchange of information from the organization having the measured data and creating elaborated data to other organisations providing ITS services or onward information exchange. It also includes the exchange of static information about measurement sites.

1 Scope

This document is the fifth part of the DATEX II European Standard which deals with the publication sub-models within the DATEX II model that support the exchange of measured and elaborated information.

These publications are intended to support the exchange of informational content from the organization having the measured data and creating elaborated data to other organisations providing ITS services or onward information exchange. It also includes the exchange of static information about measurement sites.

This is specified in three sub-models, a DATEX II Measurement Site Table Publication sub-model, a DATEX II Measured Data Publication sub-model and a DATEX II Elaborated Data Publication sub-model.

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

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 16157-1, EN 16157-7, EN 16157-2, and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

elaborated data

data which is derived/computed from one or more measurements over a period of time

Note 1 to entry: It can be a current value or a forecast value predicted from historical measurements.

3.2

measured data

quantitative data measured against a quantified scale (possibly using standard units of measure)

Note 1 to entry: In comparison to elaborated data, measured data can be considered to represent more directly observed measurements.