

SLOVENSKI STANDARD

SIST EN ISO 13143-2:2017

01-april-2017

Nadomešča:

SIST-TS CEN ISO/TS 13143-2:2011

Elektronsko pobiranje pristojbin - Ugotavljanje skladnosti opreme v vozilu in obcestni napravi s tehnično specifikacijo ISO 12813 - 2. del: Abstraktni preskuševalni niz (ISO 13143-2:2016)

Electronic fee collection - Evaluation of on-board and roadside equipment for conformity to ISO 12813 - Part 2: Abstract test suite (ISO 13143-2:2016)

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Elektronische Gebührenerhebung - Konformitätsbeurteilung von bordeigenen und straßenseitigen Ausrüstungen nach ISO 12813 - Teil 2: Zusammengefasstes Prüfprogramm (ISO 13143-2:2016)

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Perception du télépéage - Evaluation de conformité de l'équipement embarqué et de l'équipement au sol à l' ISO 12813 - Partie 2: Suite d'essais abstraite (ISO 13143-2:2016)

Ta slovenski standard je istoveten z: EN ISO 13143-2:2016

ICS:

03.220.20	Cestni transport	Road transport
35.240.60	Uporabniške rešitve IT v prometu	IT applications in transport
43.040.15	Avtomobilska informatika. Vgrajeni računalniški sistemi	Car informatics. On board computer systems

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en,fr,de

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EUROPEAN STANDARD

EN ISO 13143-2

NORME EUROPÉENNE

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December 2016

ICS 03.220.20; 35.240.60

Supersedes CEN ISO/TS 13143-2:2011

English Version

Electronic fee collection - Evaluation of on-board and roadside equipment for conformity to EN ISO/TS 12813 - Part 2: Abstract test suite (ISO 13143-2:2016)

Perception du télépéage - Évaluation des équipements embarqués et en bord de route quant à la conformité avec l'ISO 12813 - Partie 2: Suite d'essais abstraite (ISO 13143-2:2016)

Elektronische Gebührenerhebung - Konformitätsbeurteilung von bordeigenen und straßenseitigen Ausrüstungen nach ISO/TS 12813 - Teil 2: Zusammengefasstes Prüfprogramm (ISO 13143-2:2016)

This European Standard was approved by CEN on 6 December 2016.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN ISO 13143-2:2016) has been prepared by Technical Committee ISO/TC 204 “Intelligent transport systems” in collaboration with 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 June 2017, and conflicting national standards shall be withdrawn at the latest by June 2017.

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

This document supersedes CEN ISO/TS 13143-2:2011.

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

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Endorsement notice

The text of ISO 13143-2:2016 has been approved by CEN as EN ISO 13143-2:2016 without any modification.

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INTERNATIONAL
STANDARD

ISO
13143-2

First edition
2016-12-01

**Electronic fee collection — Evaluation
of on-board and roadside equipment
for conformity to ISO 12813 —**

**Part 2:
Abstract test suite**

iTeh STANDARD PREVIEW
*Perception du télépéage — Évaluation des équipements embarqués et
en bord de route quant à la conformité avec l'ISO 12813 —
(standards.iteh.ai)
Partie 2: Suite d'essais abstraite*

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ISO 13143-2:2016(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 204, *Intelligent transport systems*.

This first edition of ISO 13143-2 cancels and replaces ISO/TS 13143-2:2011, which has been technically revised and incorporates the following main modifications compared to ISO/TS 13143-2:

- conversion from a Technical Specification to an International Standard;
- amendment of terms, in order to reflect harmonization of terms across electronic fee collection (EFC) standards;
- amendments to reflect changes in ISO 13143-1 due to changes to the underlying standards, in particular ISO 12813;
- editorial and formal corrections.

A list of all parts in the ISO 13143 series can be found on the ISO website.

Introduction

ISO 17575 is part of a set of standards that supports interoperability of autonomous EFC systems. It defines the EFC context data, their charge reports and their use of communication infrastructure.

The set of standards also supports short-range communication links in the context of autonomous electronic fee collection (EFC) on-board equipment (OBE) to enable spot checks for the enforcement process. The application interface is defined in ISO 12813:2015.

Within the set of EFC standards, this document defines the process and tests for conformity evaluation of OBE and roadside equipment (RSE) that comply with the requirements in ISO 12813:2015.

This document is intended to

- assess OBU and RSE capabilities,
- assess OBU and RSE behaviour,
- serve as a guide for OBU and RSE conformance evaluation and type approval,
- achieve comparability between the results of the corresponding tests applied in different places at different times, and
- facilitate communication between parties.

This document is based on

- ISO 12813:2015,
- the set of dedicated short-range communication (DSRC) standards defining the communication stack, and
- ISO/IEC 9646.

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This document is based on using the tree and tabular combined notation (TTCN) that is a standardized language suitable for specification of test cases and steps for assessment of protocol and application behaviour. The TTCN language is also supported by modern automated tools that accelerate software design, implementation and testing.