



SLOVENSKI STANDARD SIST EN ISO 16407-2:2019

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Nadomešča:

SIST-TS CEN ISO/TS 16407-2:2012

Elektronsko pobiranje pristojbin - Ugotavljanje skladnosti opreme z ISO 17575-1 - 2. del: Abstraktni preskuševalni niz (ISO 16407-2:2018)

Electronic fee collection - Evaluation of equipment for conformity to ISO 17575-1 - Part 2:
Abstract test suite (ISO 16407-2:2018)

Elektronische Gebührenerhebung - Konformitätsbeurteilung von Einrichtungen nach ISO
17575-1 - Teil 2: Zusammengefasstes Prüfprogramm (ISO 16407-2:2018)

Perception de télépéage - Évaluation de conformité de l'équipement à l'ISO 17575-1 -
Partie 2: Suite de test abstraite (ISO 16407-2:2018)

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03.220.20	Cestni transport	Road transport
35.240.60	Uporabniške rešitve IT v prometu	IT applications in transport

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EN ISO 16407-2

December 2018

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Supersedes CEN ISO/TS 16407-2:2012

English Version

**Electronic fee collection - Evaluation of equipment for
conformity to ISO 17575-1 - Part 2: Abstract test suite (ISO
16407-2:2018)**

Perception de télépéage - Évaluation de conformité de
l'équipement à l'ISO 17575-1 - Partie 2: Suite de test
abstraite (ISO 16407-2:2018)

Elektronische Gebührenerhebung -
Konformitätsbeurteilung von Einrichtungen nach ISO
17575-1 - Teil 2: Zusammengefasstes Prüfprogramm
(ISO 16407-2:2018)

This European Standard was approved by CEN on 9 November 2018.

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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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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 16407-2:2018) 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 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

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 ISO/TS 16407-2:2012.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom. (standards.iteh.ai)

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INTERNATIONAL
STANDARD

ISO
16407-2

First edition
2018-11

**Electronic fee collection — Evaluation
of equipment for conformity to
ISO 17575-1 —**

**Part 2:
Abstract test suite**

iTeh STANDARD PREVIEW
*Perception de télépéage — Évaluation de conformité de l'équipement
à l'ISO 17575-1 —
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Partie 2: Suite de test abstraite*

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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 voluntary nature of standards, 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. (standards.iteh.ai)

This document was prepared by ISO/TC 204, *Intelligent transport systems*.

This first edition of ISO 16407-2 cancels and replaces ISO/TS 16407-2:2012, which has been technically revised. The following changes have been made:

- conversion from a Technical Specification to an International Standard;
- amendments to reflect changes to the underlying base standards, especially the ISO 17575 series;
- major changes regarding:
 - data element changes introduced by ISO 17575-1:2016 and ISO 17575-3:2016;
 - new test cases related to:
 - authentication support in Charge Report;
 - authentication support in Usage Statement;
 - DUT responses behavior;
 - removed test cases related to:
 - communications services;
 - rules with respect to support of charging which are no longer required by ISO 17575-1:2016;
- revised terms and definitions;
- editorial and formal corrections as well as changes to improve readability.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document is part of a series of standards that supports interoperability of autonomous EFC-systems. Autonomous systems use satellite positioning, often combined with additional sensor technologies such as gyroscopes, odometers, and accelerometers, to localise the vehicle and to find its position on a map containing the charged geographic objects, such as charged roads or charged areas. From the charged objects, the vehicle characteristics, the time of day and other data that are relevant for describing road use, the tariff and ultimately the road usage fee is determined.

Autonomous on-board equipment (OBE) operates without relying on dedicated road-side infrastructure by employing wide-area technologies such as Global Navigation Satellite Systems (GNSS) and Cellular Communications Networks (CN). Therefore, autonomous systems may also be referred to as GNSS/CN systems.

This document defines tests for conformity evaluation of Front End and Back End that comply with the requirements towards the charging specified in ISO 17575-1.

ISO 16407-2 is based on ISO 16407-1.

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