



# SLOVENSKI STANDARD

**SIST EN 15876:2025**

**01-julij-2025**

**Nadomešča:**

**SIST EN 15876:2023**

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**Elektronsko pobiranje pristojbin - Vrednotenje skladnosti opreme v vozilu in v obcestni napravi s standardom EN 15509**

Electronic fee collection - Evaluation of on-board and roadside equipment for conformity to EN 15509

Elektronische Gebührenerhebung - Konformitätsprüfung von Fahrzeuggeräten und straßenseitigen Einrichtungen nach EN 15509

Perception de télépéage - Évaluation de l'équipement embarqué et de l'équipement au sol à l'EN 15509

**Ta slovenski standard je istoveten z:** [EN 15876:2025](#)

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**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

**SIST EN 15876:2025**

**en,fr,de**



**EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM**

**EN 15876**

April 2025

ICS 35.240.60

Supersedes EN 15876:2023

English Version

**Electronic fee collection - Evaluation of on-board and roadside equipment for conformity to EN 15509**

Perception de télépéage - Évaluation de la conformité de l'équipement embarqué et de l'équipement au sol à l'EN 15509

Elektronische Gebührenerhebung - Konformitätsprüfung von Fahrzeuggären und straßenseitigen Einrichtungen nach EN 15509

This European Standard was approved by CEN on 13 January 2025.

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.

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.

CEN members are the national standards bodies of 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 United Kingdom.

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## EN 15876:2025 (E)

**Contents**

	Page
<b>European foreword.....</b>	<b>3</b>
<b>Introduction .....</b>	<b>4</b>
<b>1 Scope.....</b>	<b>5</b>
<b>2 Normative references.....</b>	<b>5</b>
<b>3 Terms and definitions .....</b>	<b>6</b>
<b>4 Abbreviations .....</b>	<b>6</b>
<b>5 Conformance.....</b>	<b>7</b>
<b>6 Test Suite Structure.....</b>	<b>7</b>
<b>6.1 Structure.....</b>	<b>7</b>
<b>6.2 Reference to Conformance Specifications.....</b>	<b>8</b>
<b>6.3 Test Purposes .....</b>	<b>8</b>
<b>6.3.1 TP Definition Conventions.....</b>	<b>8</b>
<b>6.3.2 TP Naming Conventions.....</b>	<b>9</b>
<b>Annex A (normative) Test purposes for on-board equipment .....</b>	<b>11</b>
<b>Annex B (normative) Test purposes for roadside equipment .....</b>	<b>69</b>
<b>Annex C (normative) PCTR proforma for on-board equipment.....</b>	<b>103</b>
<b>Annex D (normative) PCTR proforma for roadside equipment .....</b>	<b>113</b>
<b>Bibliography.....</b>	<b>121</b>

SIST EN 15876:2025<https://standards.iteh.ai/catalog/standards/sist/b372ea09-913b-4932-a8d6-ec9d66107bc1/sist-en-15876-2025>

## European foreword

This document (EN 15876:2025) 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 October 2025, and conflicting national standards shall be withdrawn at the latest by October 2025.

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 EN 15876:2023.

This fourth edition of EN 15876 incorporates the following main modifications compared with the previous version:

- Correction of the superseded references to ESTI EN 300 674 1:2004, which are replaced by references to ESTI EN 300 674 2 1:2022, ESTI EN 300 674 2 2:2019 and ETSI TS 104 022:2024;
- Amendments to improve clarity of the document.

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 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, Türkiye and the United Kingdom.

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## EN 15876:2025 (E)

### Introduction

CEN/TC 278 has produced a set of standards that support interoperable DSRC-EFC-systems e.g., EN ISO 14906 (a "toolbox" for defining EFC-application transaction) and EN ISO 14907-2 (EFC application interface conformance tests for on-board units). However, these standards are only of an enabling nature and do not ensure technical interoperability. Therefore, EN 15509, *Electronic fee collection – Interoperability application profile for DSRC* was developed to support technical interoperability between EFC-systems.

This document specifies the test suite structure and the test purposes for conformity evaluation of on-board and roadside equipment designed for compliance with the requirements of EN 15509. A test standard for evaluation of conformity of on-board and roadside equipment is a necessary element for coherent, practical and effective appraisal of products' compliance to EN 15509.

EN 15876 provides the necessary foundation for verification of the implementation of the interoperability requirements as stated in EN 15509:

- industry is provided with an easy-to-use toolbox for product assessment;
- operators can easily assess conformity to EN 15509 and reference to the standard in tendering processes;
- authorities and joint undertakings may reference to the test standard when stating interoperability requirements;
- certification organisations are given an effective tool for certification of products.

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## 1 Scope

This document specifies the test suite structure (TSS) and test purposes (TPs) for evaluation of on-board equipment (OBE) and roadside equipment (RSE) to EN 15509.

Normative Annex A presents the test purposes for the OBE.

Normative Annex B presents the test purposes for the RSE.

Normative Annex C provides the protocol conformance test report (PCTR) proforma for OBE.

Normative Annex D provides the PCTR proforma for RSE.

## 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 15509:2023, *Electronic fee collection — Interoperability application profile for DSRC*

EN 12834:2003, *Road transport and traffic telematics - Dedicated Short Range Communication (DSRC) - DSRC application layer*

EN ISO 3166-1:2020, *Codes for the representation of names of countries and their subdivisions — Part 1: Country code (ISO 3166-1)*

EN ISO 14816:2019, *Road transport and traffic telematics — Automatic vehicle and equipment identification — Numbering and data structure (ISO 14816)*

EN ISO 14906:2023, *Electronic fee collection — Application interface definition for dedicated short-range communication (ISO 14906:2022)*

EN ISO 14907-2:2021, *Electronic fee collection — Test procedures for user and fixed equipment — Part 2: Conformance test for the on-board unit application interface (ISO 14907-2:2021)*

ISO/TS 17573-2:2020, *Electronic fee collection — Systems architecture for vehicle-related tolling Part 2: Vocabulary*

ETSI TS 104 022:2024, *Transport and Traffic Telematics (TTT); Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5 795 MHz to 5 815 MHz frequency band; performance tests*

ETSI EN 300 674-2-1:2022, *Transport and Traffic Telematics (TTT); Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5 795 MHz to 5 815 MHz frequency band; Part 2: Harmonised Standard for access to radio spectrum; Sub-part 1: Road Side Units (RSU)*

ETSI EN 300 674-2-2:2019, *Transport and Traffic Telematics (TTT); Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in 5 795 MHz to 5 815 MHz frequency band; Part 2: Harmonised Standard for access to radio spectrum; Sub-part 2: On-Board Units (OBU)*

ETSI/TS 102 486-1-2:2008, *Intelligent Transport Systems (ITS); Road Transport and Traffic Telematics (RTTT); Test specifications for Dedicated Short Range Communication (DSRC) transmission equipment; Part 1: DSRC data link layer: medium access and logical link control; Sub-Part 2: Test Suite Structure and Test Purposes (TSS&TP)*