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Standard Recommendation
S.R. CEN ISO/TS 16401-2:2012

# Electronic fee collection - Evaluation of equipment for conformity to ISO/TS 17575 -2 - Part 2: Abstract test suite (ISO 16401 -2:2012)

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TECHNICAL SPECIFICATION

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# CEN ISO/TS 16401-2

March 2012

ICS 35.240.60; 03.220.20

English Version

# Electronic fee collection - Evaluation of equipment for conformity to ISO/TS 17575-2 - Part 2: Abstract test suite (ISO 16401-2:2012)

Perception du télépéage - Évaluation de conformité de l'équipement à l'ISO/TS 17575-2 - Partie 2: Suite d'essai abstraite (ISO 16401-2:2012)

Elektronische Gebührenerhebung - Konformitätsevaluierung von Einrichtungen nach CEN ISO/TS 17575-2 - Teil 2: Abstrakte Prüfreihe (ISO 16401-2:2012)

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# Foreword

This document (CEN ISO/TS 16401-2:2012) has been prepared by Technical Committee CEN/TC 278 “Road transport and traffic telematics", the secretariat of which is held by NEN, in collaboration with Technical Committee ISO/TC 204 "Intelligent transport systems".

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TECHNICAL SPECIFICATION

# ISO/TS 16401-2

First edition
2012-03-01

# Electronic fee collection — Evaluation of equipment for conformity to ISO/TS 17575-2 —

## Part 2: Abstract test suite

*Perception du télépéage — Évaluation de conformité de l'équipement à l'ISO/TS 17575-2 —*

*Partie 2: Suite d'essai 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.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO/TS 16401-2 was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*, in collaboration with Technical Committee CEN/TC 278, *Road transport and traffic telematics*.

ISO/TS 16401 consists of the following parts, under the general title *Electronic fee collection — Evaluation of equipment for conformity to ISO/TS 17575-2*:

— *Part 1: Test suite structure and test purposes*

— *Part 2: Abstract test suite*


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# Introduction

This part of ISO/TS 16401 is part of a set of standards that supports interoperability of autonomous EFC-systems, which includes ISO/TS 17575 parts 1 to 4 that define the EFC context data, their charge reports and their use of communication infrastructure.

Within the suite of EFC standards this conformance evaluation procedure defines the process and tests for conformity evaluation of Front End and Back End that comply with the requirements in ISO/TS 17575-2.

This part of ISO/TS 16401 is intended to

— assess Front End Communications API and Front End Application capabilities,

— assess Front End Communications API and Front End Application behaviour,

— serve as a guide for Front End Communications API and Front End Application conformance evaluation and type approval,

— achieve comparability between the results of the corresponding tests applied in different places at different times, and

— facilitate communications between parties.

This part of ISO/TS 16401 is based on

— ISO/TS 17575-2, and

— the ISO/IEC 9646 family of standards on conformance test methodology.

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