

STN P	Elektronický výber poplatkov Usmernenia pre bezpečnosť ochranných profilov (ISO/TS 17574: 2017)	STN P CEN ISO/TS 17574 01 8537
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Electronic fee collection - Guidelines for security protection profiles (ISO/TS 17574:2017)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/17

Táto predbežná STN je určená na overenie. Pripomienky zasielajte ÚNMS SR najneskôr do 31. 3. 2019.

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Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.

TECHNICAL SPECIFICATION

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Supersedes CEN ISO/TS 17574:2009

English Version

Electronic fee collection - Guidelines for security protection profiles (ISO/TS 17574:2017)

Perception de télépéage - Lignes directrices concernant
les profils de protection de la sécurité (ISO/TS
17574:2017)

Elektronische Gebührenerhebung - Leitfaden für
Sicherheitsprofile (ISO/TS 17574:2017)

This Technical Specification (CEN/TS) was approved by CEN on 3 March 2017 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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European foreword

This document (CEN ISO/TS 17574:2017) 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.

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This document supersedes CEN ISO/TS 17574:2009.

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Endorsement notice

The text of ISO/TS 17574:2017 has been approved by CEN as CEN ISO/TS 17574:2017 without any modification.

Electronic fee collection — Guidelines for security protection profiles

*Perception de télépéage — Lignes directrices concernant les profils de
protection de la sécurité*





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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).

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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 third edition cancels and replaces the second edition (ISO/TS 17574:2009), which has been technically revised. This edition includes the following significant changes with respect to the previous edition:

- [Clause 1](#) has been redrafted and shortened;
- [Clause 3](#) has been updated with harmonized terms;
- requirements updated as to reflect the latest version of the ISO/IEC 15408 series;
- a new [Clause 5](#) has been added, comprising much of the text from the Scope of the previous edition.

Introduction

Electronic fee collection (EFC) systems are subject to several ways of fraud both by users and operators but also from people outside the system. These security threats have to be met by different types of security measures including security requirements specifications.

It is recommended that EFC operators or national organizations, e.g. highway authorities or transport ministries, use the guideline provided by this document to prepare their own EFC/protection profile (PP), as security requirements should be described from the standpoint of the operators and/or operators' organizations.

It should be noted that this document is of a more informative than normative nature and it is intended to be read in conjunction with the underlying international standards ISO/IEC 15408 (all parts). Most of the content of this document is an example shown in [Annex A](#) on how to prepare the security requirements for EFC equipment, in this case, a DSRC-based OBE with an IC card loaded with crucial data needed for the EFC. The example refers to a Japanese national EFC system and should only be regarded as an example.

After an EFC/PP is prepared, it can be internationally registered by the organization that prepared the EFC/PP so that other operators or countries that want to develop their EFC system security services can refer to an already registered EFC/PP.

This EFC-related document on security service framework and EFC/PP is based on ISO/IEC 15408 (all parts). ISO/IEC 15408 (all parts) includes a set of requirements for the security functions and assurance of IT-relevant products and systems. Operators, organizations or authorities defining their own EFC/PP can use these requirements. This will be similar to the different PPs registered by several financial institutions, e.g. for payment instruments like IC cards.

The products and systems that were developed in accordance with ISO/IEC 15408 (all parts) can be publicly assured by the authentication of the government or designated private evaluation agencies.

Electronic fee collection — Guidelines for security protection profiles

1 Scope

This document provides guidelines for preparation and evaluation of security requirements specifications, referred to as Protection Profiles (PP) in ISO/IEC 15408 (all parts) and in ISO/IEC TR 15446.

By Protection Profile (PP), it means a set of security requirements for a category of products or systems that meet specific needs. A typical example would be a PP for On-Board Equipment (OBE) to be used in an EFC system. However, the guidelines in this document are superseded if a Protection Profile already exists for the subsystem in consideration.

The target of evaluation (TOE) for EFC is limited to EFC specific roles and interfaces as shown in [Figure 1](#). Since the existing financial security standards and criteria are applicable to other external roles and interfaces, they are assumed to be outside the scope of TOE for EFC.

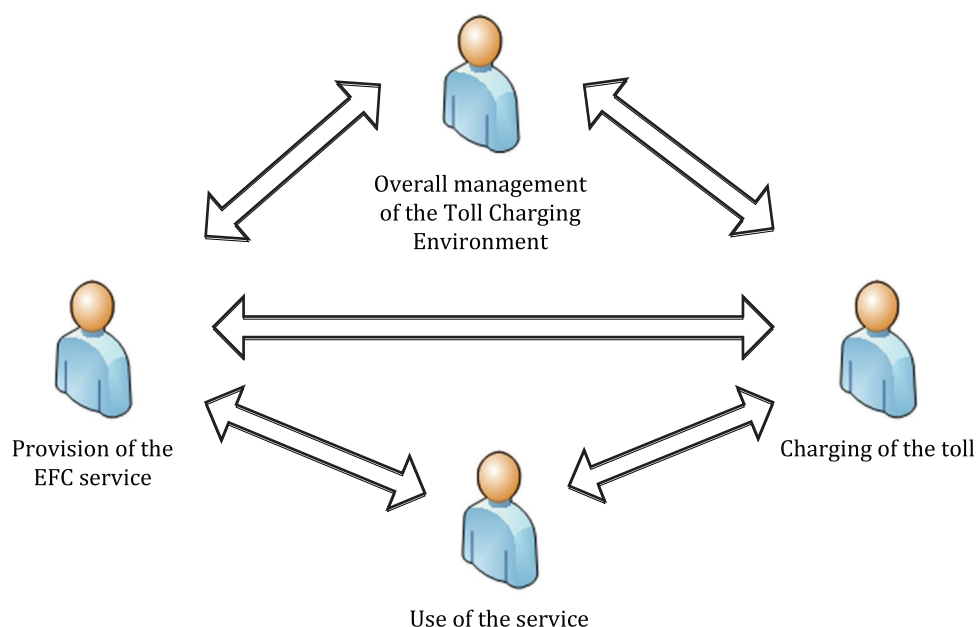


Figure 1 — Scope of TOE for EFC

The security evaluation is performed by assessing the security-related properties of roles, entities and interfaces defined in security targets (STs), as opposed to assessing complete processes which often are distributed over more entities and interfaces than those covered by the TOE of this document.

NOTE Assessing security issues for complete processes is a complimentary approach, which may well be beneficial to apply when evaluating the security of a system.

2 Normative references

There are no normative references in this document.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN