



SLOVENSKI STANDARD SIST-TS CEN ISO/TS 21719-3:2022

01-marec-2022

Elektronsko pobiranje pristojbin - Personalizacija (prilaganje) opreme vozil (OBE) - 3. del: Uporaba kartic z integriranimi vezji (ISO/TS 21719-3:2021)

Electronic fee collection - Personalization of on-board equipment (OBE) - Part 3: Using integrated circuit(s) cards (ISO/TS 21719-3:2021)

Elektronische Gebührenerhebung - Personalisierung von Onboard Einrichtungen - Teil 3: Unter Verwendung von Chipkarten (ISO/TS 21719-3:2021)

Perception de télépéage - Personnalisation des équipements embarqués - Partie 3: Utilisation de cartes à circuit(s) intégré(s) (ISO/TS 21719-3:2021)

Ta slovenski standard je istoveten z: **CEN ISO/TS 21719-3:2021**

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ICS:

03.220.20	Cestni transport	Road transport
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TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN ISO/TS 21719-3

December 2021

ICS 03.220.20

English Version

**Electronic fee collection - Personalization of on-board
equipment (OBE) - Part 3: Using integrated circuit(s) cards
(ISO/TS 21719-3:2021)**

Perception de télépéage - Personnalisation des
équipements embarqués - Partie 3: Utilisation de
cartes à circuit(s) intégré(s) (ISO/TS 21719-3:2021)

Elektronische Gebührenerhebung - Personalisierung
von Onboard Einrichtungen - Teil 3: Unter
Verwendung von Chipkarten (ISO/TS 21719-3:2021)

This Technical Specification (CEN/TS) was approved by CEN on 9 November 2021 for provisional application.

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European foreword

This document (CEN ISO/TS 21719-3:2021) 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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The text of ISO/TS 21719-3:2021 has been approved by CEN as CEN ISO/TS 21719-3:2021 without any modification.

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TECHNICAL
SPECIFICATION

ISO/TS
21719-3

First edition
2021-11

**Electronic fee collection —
Personalization of on-board
equipment (OBE) —**

**Part 3:
Using integrated circuit(s) cards**

*Perception de télépéage — Personnalisation des équipements
embarqués —*

(Partie 3: Utilisation de cartes à circuit(s) intégré(s))

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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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For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 278, *Intelligent transport systems*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO/TS 21719 series can be found on the ISO website.

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

On-board equipment (OBE) is an in-vehicle device that contains one or more application instances in order to support different intelligent transportation system (ITS) implementations such as electronic fee collection (EFC).

To assign the EFC application in the OBE to a certain user and/or vehicle, personalization is performed. This means that unique user and vehicle related data are transferred to and stored in the OBE.

CEN/TR 16152 assesses many aspects of the personalization process and it defines the overall personalization assets (application data, application keys and vehicle-related data).

Different communication media may be used for transferring the personalization assets to the OBE. An overall message exchange framework and needed security functionality may be applied, for all media common procedures, in order to ensure data protection and integrity.

By standardizing the personalization procedure, compatibility of personalization equipment (PE) is supported. The entity responsible for the personalization, such as a toll service provider, will further be able to outsource parts of, or a complete, personalization to a third party or to another service provider or personalization agent.

The scope of the personalization functionality is illustrated in [Figure 1](#). It is limited to the transfer of data between the PE and the OBE by using integrated circuit(s) cards (ICCs).

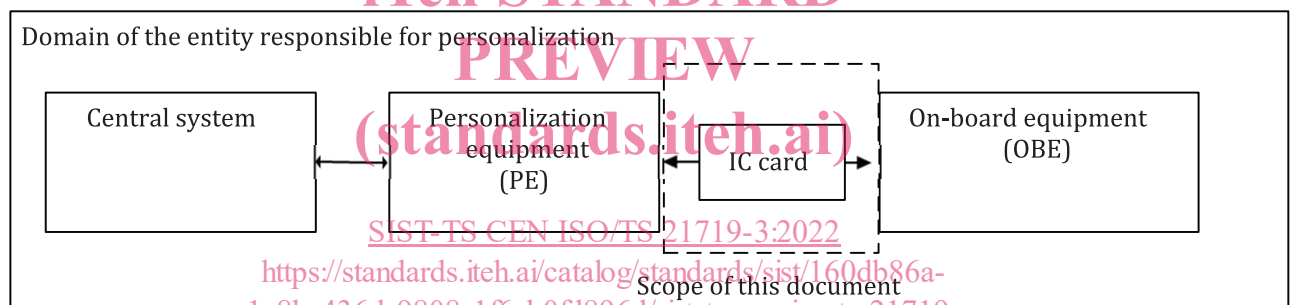


Figure 1 — Scope of this document (box delimited by a dotted line)

This document defines a complete application profile (AP), using ICCs in accordance with the ISO/IEC 7816-3, ISO/IEC 7816-4, ISO/IEC 14443-3, ISO/IEC 14443-4 and the ISO/IEC 15693 series (Table 1), in accordance with the personalization functionality described in ISO/TS 21719-1.

[Figure 2](#) shows the relationship of this document.

There are two interfaces (PE-ICC, ICC-OBE). For further details, see [Annex A](#).

This document may be supplemented by a set of specifications which define the conformity evaluation of equipment to the conformance requirements contained in this document.