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Electronic fee collection - Pre-study on the use of vehicle licence plate information and automatic number plate recognition (ANPR) technologies (ISO/TR 6026:2022)

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Electronic fee collection - Pre-study on the use of vehicle licence plate information and automatic number plate recognition (ANPR) technologies (ISO/TR 6026:2022)

Perception de télépéage - Pré-étude sur l'utilisation des informations de la plaque d'immatriculation du véhicule et la technologie de la lecture automatique des plaques minéralogiques (LAPI) (ISO/TR 6026:2022)

Elektronische Gebührenerhebung - Vorstudie zur Nutzung von Kennzeicheninformationen und automatischer Kennzeichenerkennung (ANPR) Technologien (ISO/TR 6026:2022)

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European foreword

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The text of ISO/TR 6026:2022 has been approved by CEN as CEN ISO/TR 6026:2022 without any modification.

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Electronic fee collection — Pre-study on the use of vehicle licence plate information and automatic number plate recognition (ANPR) technologies

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Foreword

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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).

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Introduction

This document endeavours to foster a common understanding in the context of electronic fee collection (EFC) systems of the use of vehicle licence plate information, and of automatic number plate recognition (ANPR) technologies.

This document notably seeks to advance the common understanding and definitions in the following areas:

— information associated with the licence plate number (LPN);

— information exchanges over open interfaces;

— outline of specification of exchanges between actors, notably the toll service provider (TSP), the toll charger (TC), vehicle registration authorities, etc;

— technologies regarding the ANPR.

The outcome is intended to contribute to more effective and efficient EFC schemes using vehicle LPN, obtained by means of ANPR technology and any associated information (including make and model) as a primary means to identify the user via the LPN, or a complementary means to augment the reliability and the robustness of their dedicated short-range communication (DSRC)-based or global navigation satellite system/cellular network) (GNSS/CN)-based systems (including degraded mode, trip reconstitution, etc).

TECHNICAL REPORT **ISO/TR 6026:2022(E)**

Electronic fee collection — Pre-study on the use of vehicle licence plate information and automatic number plate recognition (ANPR) technologies

1 Scope

This document provides an analysis of the use of licence plate number (LPN) information and automatic number plate recognition (ANPR) technologies in electronic fee collection (EFC), through the description of the legal, technical and functional contexts of LPN-based EFC. It also provides an associated gap analysis of the EFC standards to identify actions to support standardized use of the identified technologies, and a roadmap to address the identified gaps.

The gap analysis in this document is based on use cases, relevant regulations, standards and best practices in the field of EFC, based on the European electronic toll service (EETS)[27] model.

Examples of licence plate number (LPN)-based tolling schemes are given in Annex A.

2 Normative references

There are no normative references in this document.