INTERNATIONAL STANDARD

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Intelligent transport systems — Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) —

Part 21: Monitoring of regulated vehicles using roadside sensors and data collected from the vehicle for enforcement and other purposes

Systèmes intelligents de transport — Cadre pour applications télématiques collaboratives pour véhicules de fret commercial réglementé (TARV) —
Partie 21: Surveillance des véhicules réglementés à l'aide de capteurs routiers et de données collectées dans les véhicules pour l'application des lois et à d'autres fins

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Foreword

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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 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 204, *Intelligence transport systems*.

A list of all parts in the ISO 15638 series can be found on the ISO website.

Introduction

The ISO 15638 seriesTARV application standards are based on a triumvirate of vehicle operators with in-vehicle systems, on-board application service providers (3.39) and jurisdictions (3.28). The basic TARV standards focus on the transactions between these parties via ITS-stations (3.25), and do not have measures to detect/avoid tampering/incorrect setting of on-board equipment, and are limited to using data collected from the vehicle for purposes such as control, management and enforcement. In many countries road side sensors (3.37) are already widely used for jurisdiction enforcement and other enhancement purposes. These road side sensors can be used in combination with the TARV framework (3.21) to enhance functionality by eliminating/reducing problems of incorrect setting/tampering etc. and/or complementing/corroborating data obtained from on-board systems. This provides increased capability for jurisdictions and other entities to use existing parts of the ISO 15638 series of standards (which are focussed only on the transaction of data collected from on-board systems), thus potentially providing validation of, or removing weakness in, the accuracy of the data transmitted from the vehicle to an application service provider (3.39), or to provide new management and control measures for regulated commercial freight vehicles. In some cases, new means of management and enforcement may be enabled by using this document.

It, therefore, seems appropriate to include this part of ISO 15638 to the 15638 series of standards to provide the means to use roadside/in-road sensors to validate the accuracy of on-board equipment, and/or complement the data available to application service providers (3.39) and jurisdictions and other entities.

NOTE ISO 15638-9[1)] already covers provisions consistent with EC165/2014. This document is complementary to and not competitive to ISO 15638-9, and therefore consistent with EC 165/2014.

1) To be published. Stage at publication: ISO/DIS 15638-9.

