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Intelligent transport systems — Extracting trip data using nomadic and mobile devices for estimating CO_2 emissions —

Part 2: Information provision for eco-friendly driving behaviour

Systèmes de transport intelligents — Extraction de données de trajet à l'aide de dispositifs nomades et mobiles pour l'estimation des émissions de CO_2 —

Partie 2: Fourniture d'informations pour un comportement de conduite respectueux de l'environnement

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Foreword

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

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Introduction

Vehicle emission has become a main air pollution contributor, producing carbon dioxide and greenhouse gases. This document has been established to define criteria for measuring carbon dioxide emissions in relation to driving behaviours.

The international community has been actively pursuing greenhouse gas reduction policies[1][2][3][4][5][6] etc. since the Paris Agreement adopted by the CMA(Conference of the parties serving as the Meeting of the parties to Paris Agreement) as a comprehensive policy direction to cope with climate change.

In addition, the U.S., Europe and Asia are implementing a greenhouse gas ETS(emission trading system) to boost it.

In particular, greenhouse gases emitted from the transportation sector for greenhouse gas emission trading need to be quantified according to national policies. This standard is a basic document that can support the quantification of greenhouse gases emitted from vehicles.

The document aims to extract driving information based on driving patterns of drivers needed to provide eco-friendly driving behaviour services as part of achieving goals related to global carbon reduction policies.

It is intended to be used as a basis for interaction between vehicles, nomadic devices and cloud servers. Carbon dioxide emission measurement in relation to driving behaviours is determined by different events: speeding, long speeding, sudden acceleration/deceleration, sudden start/stop, idling, fuel-cut, economical driving, etc.

This document provides all documents and references required to support the implementation of the requirements related to standardized access to nomadic device service for estimating carbon dioxide emissions. The document contains functional requirements and datasets required by use cases.

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