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Intelligent transport systems (ITS) — Nomadic device service platform for micro mobility —

Part 2: Functional requirements and dataset definitions

Systèmes de transport intelligents - Plateforme de services de dispositifs portables pour la micro mobilité - Partie 2 : Exigences fonctionnelles et définitions des données —

Partie 2: Exigences fonctionnelles et définitions des données

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

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Introduction

Micro mobility can be defined as a small or compact-sized electric vehicle. Normally, it is designed to be used as a first-mile and last-mile service connecting public transit routes or to provide personal mobility with one or two passengers for a short-distance trip.

The nomadic device service platform aims to accommodate the specific needs of integrated mobility services for either urban or rural areas. The service platform focuses on the use of data exchange interface standards between micro mobility and nomadic devices to enable the development of cloud-based ITS using wireless networks.

This document fosters the introduction of nomadic devices in the public transport and automotive world. It specifies functional requirements and dataset definitions based on Vehicle Interface Data Format (VIDF) at the application level regarding pre-trip, post-trip and while driving, in order to identify connectivity between a user's personal ITS stations (P-ITS-S, for example nomadic devices), roadside-ITS-station, vehicle-ITS-station gateway (V-ITS-S) and central ITS station (C-ITS-S). The functional requirements and the dataset can be used as a measure for exchanging information required to implement mobility services to be included in integrated mobility and parcel delivery services.

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