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Intelligent transport systems — Mobility integration — Role and functional model for mobility services using low Earth orbit (LEO) satellite systems

National foreword

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Technical Report

ISO/TR 17783

Intelligent transport systems — Mobility integration — Role and functional model for mobility services using low Earth orbit (LEO) satellite systems

*Systèmes de transport intelligents — Intégration de la mobilité
— Rôle et modèle fonctionnel des services de mobilité qui utilisent
les systèmes de satellites en orbite terrestre basse (LEO)*

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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

Recent implementations of low Earth orbit (LEO) satellite communication systems (e.g. OneWeb,^[13] Starlink^[19]) offer advantages in terms of large coverage area, large capacity, multi-modal mobility access, low latency and resilience compared to other available communication service systems. These characteristics of LEO offer benefits when used for smart city or community mobility integration services. This document describes a role and functional model of LEO in the context of use cases for intelligent transport systems (ITS).

This document can contribute to the development of mobility service standards using LEO satellite system business cases.

Background information on LEO is provided in the Bibliography.

