



BSI Standards Publication

Intelligent transport systems — Framework for green ITS (G-ITS) standards

Part 1: General information and use case definitions

National foreword

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**Intelligent transport systems —
Framework for green ITS (G-ITS)
standards —**

**Part 1:
General information and use case
definitions**

*Systèmes de transport intelligents — Cadre pour les normes relatives
aux systèmes de transport intelligents écologiques —*

Partie 1: Informations générales et définitions des cas d'utilisation





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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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, *Intelligent transport systems*.

Introduction

The nomadic and portable devices for ITS services in ISO/TC204 are defined to facilitate the development, promotion and standardisation of the use of nomadic and portable devices to support ITS service provision and multimedia use such as passenger information, automotive information, driver advisories and warning systems, and entertainment system interfaces to ITS service providers and motor vehicle communication networks. This document fosters the introduction of multimedia and telematics nomadic devices in the public transport and automotive world.

This document provides the framework guidelines to identify cost-effective technologies and related standards required to deploy, manage and operate sustainable “green” intelligent transport systems (ITS) technologies in surface transportations with eco-mobility.

Intelligent transport systems — Framework for green ITS (G-ITS) standards —

Part 1: General information and use case definitions

1 Scope

This document provides the framework guideline for identifying cost-effective technologies and related standards required to deploy, manage and operate sustainable “green” intelligent transport systems (ITS) technologies in surface transportations with eco-mobility. These ITS technologies can increase operational efficiencies and unlock enhanced transportation safety and eco-mobility applications.

The green ITS standard framework builds on the existing standards and best practices of transport operation and management systems, as well as ITS applications, and aims to accommodate to the specific needs of eco-mobility in either mega cities or developing countries.

The G-ITS standards would expect to focus on the use of data exchange interface standards to enable the deployment of cloud-based multi-modal mobility solutions using wireless networks and nomadic devices. These forward-looking solutions are “infrastructure light” and thus can impact developing regions with little or no legacy transportation infrastructure.

The framework described in this document includes:

- G-ITS standard common framework including gap analysis of existing ITS standards;
- Guidance documents to facilitate the practical implementation of identified standards by policy makers and engineers including related use cases.

This document includes the identification of existing International Standards for ITS in ISO/TC 204 and existing vehicle communication network access standards.

2 Normative references

There are no normative references in this document.

3 Terms, definitions, symbols and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>