

BSI Standards Publication

Intelligent transport systems — ITS station management

Part 3: Service access points



BS ISO 24102-3:2018 BRITISH STANDARD

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National foreword

This British Standard is the UK implementation of ISO 24102-3:2018. It supersedes BS ISO 24102-3:2013+A1:2017, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/278, Intelligent transport systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Intelligent transport systems — ITS station management —

Part 3: **Service access points**

Systèmes intelligents de transport — Gestion des stations ITS — Partie 3: Points d'accès au service



ISO 24102-3:2018(E)

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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 of 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 www.iso.org/iso/foreword.html.

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

This second edition cancels and replaces the first edition (ISO 24102-3:2013), which has been technically revised. It also incorporates the Amendment ISO 24102-3:2013/Amd1:2017.

A list of all parts in the ISO 24102 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

NOTE The former ISO 24102-5 has been converted into a separate standard ISO 22418, as it is not a station management standard.

Introduction

This document is part of a family of International Standards for communications in intelligent transport systems (ITS) based on the ITS station and communications architecture specified in ISO 21217 and illustrated in Figure 1.

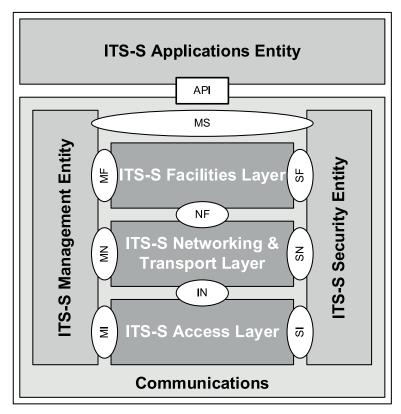


Figure 1 — ITS station reference architecture with named interfaces

This document is Part 3 of a multipart standard which determines the intelligent transport systems (ITS) station management service access points.

The ITS station management entity provides functionality related to the management of communication protocol layers and the security entity presented in the ITS station reference architecture specified in ISO 21217 and presented in Figure 1.

ITS station management is specified as a distributed process, where no supervisory entity is employed.

Intelligent transport systems — ITS station management —

Part 3:

Service access points

1 Scope

This document specifies the management service access points, i.e. the service access points of

- the interfaces between the ITS-S management entity and
 - the ITS-S access layer (MI-SAP),
 - the ITS-S networking & transport layer (MN-SAP),
 - the ITS-S facilities layer (MF-SAP);
- the interfaces between the ITS-S security entity and
 - the ITS-S access layer,
 - the ITS-S networking & transport layer,
 - the ITS-S facilities layer;
- the interface between the ITS-S management entity and the ITS-S security entity (MS-SAP)
- the interfaces between the ITS-S application entity and
 - the ITS-S management entity (MA-SAP),
 - the ITS-S security entity (SA-SAP).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 21217, Intelligent Transport Systems — Communications access for land mobiles (CALM) — Architecture

ISO/IEC 8825-2, Information technology — ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 21217 apply.

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

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