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**BS ISO 24102-2:2015**



**BSI Standards Publication**

# **Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management**

Part 2: Remote management of ITS-SCUs

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This British Standard is the UK implementation of ISO 24102-2:2015. Together with BS ISO 24102-1:2013, BS ISO 24102-3:2013, BS ISO 24102-4:2013, BS ISO 24102-5:2013 and BS ISO 24102-6 it supersedes BS ISO 24102:2010 which will be withdrawn upon publication of all parts of the series.

The ISO 24102 series have been revised to better specify Communications Access for Land Mobiles (CALM) ITS station management.

ISO 24102-2:2015, *Intelligent transport systems – Communications access for land mobiles (CALM) – ITS station management – Part 2: Remote management of ITS-SCUs* now includes CALM, which was not included in the earlier specification of ISO 24102:2010.

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 — Communications access for land mobiles (CALM) — ITS station management —

## Part 2: Remote management of ITS-SCUs

*Systèmes intelligents de transport — Accès aux communications des  
services mobiles terrestres (CALM) — Gestion de la station ITS —*

*Partie 2: Gestion à distance des SCUs-ITS*



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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](http://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](http://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 meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 204, *Intelligent transport systems*.

This first edition, together with ISO 24102-1, ISO 24102-3, ISO 24102-4, ISO 24102-5 and ISO 24102-6, cancels and replaces ISO 24102:2010, which has been technically revised.

ISO 24102 consists of the following parts, under the general title *Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management*:

- *Part 1: Local management*
- *Part 2: Remote management of ITS-SCUs*
- *Part 3: Service access points*
- *Part 4: Station-internal management communications*
- *Part 5: Fast service advertisement protocol (FSAP)*
- *Part 6: Path and flow management*

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## Introduction

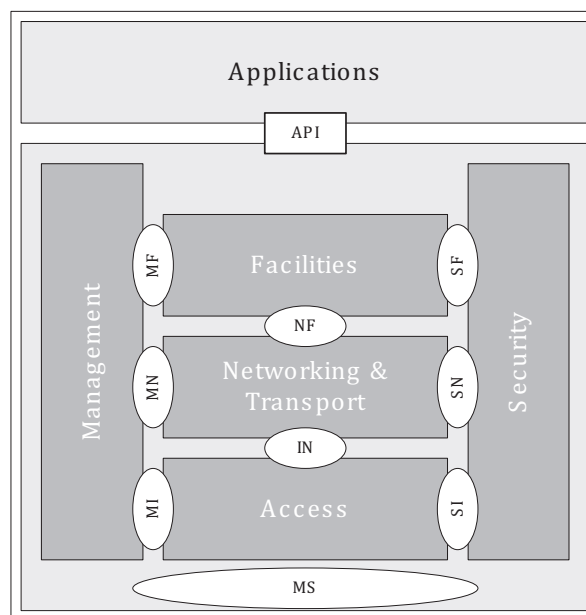
This part of ISO 24102 is part of a family of International Standards for communications access for land mobiles (CALM). An introduction to the whole set of International Standards for Intelligent Transport Systems (ITS) is provided in ISO 21217.

This part of ISO 24102 is the second part of a multipart International Standard which determines remote management of an ITS station unit (ITS-SU) with the ITS station and communication architecture specified in ISO 21217 and illustrated in [Figure 1](#), and operated as a bounded secured managed domain (BSME).

Remote ITS station management has the purpose of

- setting, updating, and deletion of configuration and operation information in an ITS station communication units (ITS-SCU) of an ITS station unit (ITS-SU) specified in ISO 21217, e.g. information on policies and regulations, security related information, accounting information, access layer parameters (see Reference [1]),
- installation, update, and deinstallation of persistent information in an ITS-SCU, e.g. ITS-S application processes specified in ISO 21217, ITS-S communication protocols, and
- notification and retrieval of management information, e.g. log files of events, alarms generated by the ITS-SCU(s) of an ITS-SU.

By this, it covers the five management areas identified in ISO/IEC 7498-4.



**Figure 1 — ITS station reference architecture**

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# Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management —

## Part 2: Remote management of ITS-SCUs

### 1 Scope

This part of ISO 24102 provides specifications for Intelligent Transport Systems (ITS) station management to be compliant with the ITS station reference architecture and the set of related standards from ISO/TC 204.

Remote ITS station management is specified by means of protocol data units (PDUs) and procedures of the "Remote ITS Station Management Protocol" (RSMP) related to managed objects in an ITS station unit. Distinction is made between managed ITS station units (management clients) and managing remote ITS station units (management servers).

### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 24102-1, *Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management — Part 1: Local management*

ISO 24102-3, *Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management — Part 3: Service access points*

ISO 24102-4, *Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management — Part 4: Station-internal management communications*

ISO/IEC 7498-4, *Information processing systems — Open Systems Interconnection — Basic Reference Model — Part 4: Management framework*

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, ISO 24102-1, ISO 24102-3, ISO 24102-4, ISO/IEC 7498-4, and the following apply.

#### 3.1

##### **remote management client**

ITS station communication unit in which remote ITS station management is performed by a *remote management server* (3.2)

#### 3.2

##### **remote management server**

entity performing remote ITS station management in an ITS station communication unit