



BSI Standards Publication

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

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Part 3: Service access points

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## National foreword

This British Standard is the UK implementation of ISO 24102-3:2013+A1:2017. Together with BS ISO 24102-1:2013, BS ISO 24102-2:2015, BS ISO 24102-4:2013, BS ISO 24102-5:2013 and BS ISO 24102-6 it supersedes BS ISO 24102:2010 which will be withdrawn upon publication of all parts of the series.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 start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the amendment. For example, text altered by ISO amendment 1 is indicated in the text by A1 A1.

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 3: Service access points

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

*Partie 3: Points d'accès au service*



Reference number  
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## Contents

	Page
<b>Foreword</b> .....	<b>vi</b>
<b>Introduction</b> .....	<b>vii</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>2</b>
<b>4 Abbreviated terms</b> .....	<b>2</b>
<b>5 Requirements</b> .....	<b>3</b>
<b>6 MI-SAP</b> .....	<b>4</b>
6.1 General.....	4
6.2 MI-SET.....	4
6.2.1 MI-SET.request.....	4
6.2.2 MI-SET.confirm.....	5
6.3 MI-GET.....	5
6.3.1 MI-GET.request.....	5
6.3.2 MI-GET.confirm.....	6
6.4 MI-COMMAND.....	6
6.4.1 MI-COMMANDs.....	6
6.4.2 MI-COMMAND.request.....	6
6.4.3 MI-COMMAND.confirm.....	7
6.5 MI-REQUEST.....	7
6.5.1 MI-REQUESTs.....	7
6.5.2 MI-REQUEST.request.....	7
6.5.3 MI-REQUEST.confirm.....	8
6.6 MI-NOTIFY.....	8
6.6.1 Pseudo-service.....	8
6.6.2 Retrieve monitor status.....	8
6.6.3 MAC management frame.....	9
<b>7 MN-SAP</b> .....	<b>9</b>
7.1 General.....	9
7.2 MN-COMMAND.....	9
7.2.1 MN-COMMANDs.....	9
7.2.2 MN-COMMAND.request.....	9
7.2.3 MN-COMMAND.confirm.....	10
7.3 MN-REQUEST.....	10
7.3.1 MN-REQUESTs.....	10
7.3.2 MN-REQUEST.request.....	10
7.3.3 MN-REQUEST.confirm.....	11
<b>8 MF-SAP</b> .....	<b>11</b>
8.1 General.....	11
8.2 MF-COMMAND.....	11
8.2.1 MF-COMMANDs.....	11
8.2.2 MF-COMMAND.request.....	11
8.2.3 MF-COMMAND.confirm.....	12
8.3 MF-REQUEST.....	12
8.3.1 MF-REQUESTs.....	12
8.3.2 MF-REQUEST.request.....	12
8.3.3 MF-REQUEST.confirm.....	13
<b>9 SI-SAP</b> .....	<b>13</b>
9.1 General.....	13
9.2 SI-COMMAND.....	14
9.2.1 SI-COMMANDs.....	14

This is a preview of "BS ISO 24102-3:2013+...". Click here to purchase the full version from the ANSI store.

	9.2.2	SI-COMMAND.request.....	14
	9.2.3	SI-COMMAND.confirm.....	14
9.3		SI-REQUEST.....	15
	9.3.1	S-REQUESTs.....	15
	9.3.2	SI-REQUEST.request.....	15
	9.3.3	SI-REQUEST.confirm.....	15
<b>10</b>		<b>SN-SAP.....</b>	<b>16</b>
10.1		General.....	16
10.2		SN-COMMAND.....	16
	10.2.1	SN-COMMANDs.....	16
	10.2.2	SN-COMMAND.request.....	16
	10.2.3	SN-COMMAND.confirm.....	16
10.3		SN-REQUEST.....	17
	10.3.1	SN-REQUESTs.....	17
	10.3.2	SN-REQUEST.request.....	17
	10.3.3	SN-REQUEST.confirm.....	17
<b>11</b>		<b>SF-SAP.....</b>	<b>18</b>
11.1		General.....	18
11.2		SF-COMMAND.....	18
	11.2.1	SF-COMMANDs.....	18
	11.2.2	SF-COMMAND.request.....	18
	11.2.3	SF-COMMAND.confirm.....	19
11.3		SF-REQUEST.....	19
	11.3.1	SF-REQUESTs.....	19
	11.3.2	SF-REQUEST.request.....	19
	11.3.3	SF-REQUEST.confirm.....	20
<b>12</b>		<b>MS-SAP.....</b>	<b>20</b>
12.1		General.....	20
12.2		MS-COMMAND.....	21
	12.2.1	MS-COMMANDs.....	21
	12.2.2	MS-COMMAND.request.....	21
	12.2.3	MS-COMMAND.confirm.....	21
12.3		MS-REQUEST.....	22
	12.3.1	MS-REQUESTs.....	22
	12.3.2	MS-REQUEST.request.....	22
	12.3.3	MS-REQUEST.confirm.....	23
<b>A1</b>	<b>13</b>	<b>Interfaces MA and SA towards the ITS-S application entity.....</b>	<b>23</b>
	13.1	SAPs and API.....	23
	13.2	MA-COMMAND.....	24
		13.2.1 MA-COMMANDs.....	24
		13.2.2 MA-COMMAND.request.....	24
		13.2.3 MA-COMMAND.confirm.....	24
	13.3	MA-REQUEST.....	25
		13.3.1 MA-REQUESTs.....	25
		13.3.2 MA-REQUEST.request.....	25
		13.3.3 MA-REQUEST.confirm.....	26
	13.4	SA-COMMAND.....	26
		13.4.1 SA-COMMANDs.....	26
		13.4.2 SA-COMMAND.request.....	27
		13.4.3 SA-COMMAND.confirm.....	27
	13.5	SA-REQUEST.....	28
		SA-REQUESTs.....	28
		13.5.2 SA-REQUEST.request.....	28
		13.5.3 SA-REQUEST.confirm.....	28
<b>A1</b>	<b>14</b>	<b>Conformance.....</b>	<b>29</b>

This is a preview of "BS ISO 24102-3:2013+...". [Click here to purchase the full version from the ANSI store.](#)

<b>Bibliography</b> .....	<b>30</b>
<b>Ⓐ</b> <b>Annex A</b> (normative) <b>ASN.1 modules</b> .....	<b>31</b>
<b>Annex B</b> (informative) <b>MF-COMMANDS</b> .....	<b>38</b>
<b>Annex C</b> (informative) <b>MF-REQUESTS</b> .....	<b>42</b>
<b>Annex D</b> (informative) <b>MN-COMMANDS</b> .....	<b>45</b>
<b>Annex E</b> <b>Ⓐ</b> (informative) <b>Ⓐ</b> <b>MN-REQUESTS</b> .....	<b>47</b>
<b>Annex F</b> <b>Ⓐ</b> (informative) <b>Ⓐ</b> <b>MI-COMMANDS</b> .....	<b>50</b>
<b>Annex G</b> (informative) <b>MI-REQUESTS</b> .....	<b>55</b>
<b>Ⓐ</b> <b>Annex H</b> (informative) <b>SF-COMMANDS</b> .....	<b>59</b>
<b>Annex I</b> (informative) <b>SF-REQUESTS</b> .....	<b>60</b>
<b>Annex J</b> (informative) <b>SN-COMMANDS</b> .....	<b>61</b>
<b>Annex K</b> (informative) <b>SN-REQUESTS</b> .....	<b>62</b>
<b>Annex L</b> (informative) <b>SI-COMMANDS</b> .....	<b>63</b>
<b>Annex M</b> (informative) <b>SI-REQUESTS</b> .....	<b>64</b>
<b>Annex O</b> (informative) <b>MS-REQUESTS</b> .....	<b>66</b>
<b>Annex P</b> (normative) <b>Error/return codes</b> .....	<b>67</b>
<b>Ⓐ</b> <b>Annex Q</b> (informative) <b>MA-COMMANDS</b> .....	<b>68</b>
<b>Annex R</b> (informative) <b>MA-REQUESTS</b> .....	<b>69</b>
<b>Annex R</b> (informative) <b>SA-COMMANDS</b> .....	<b>70</b>
<b>Annex R</b> (normative) <b>SA-REQUESTS</b> .....	<b>71</b>

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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. [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. [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.

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

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 3: Service access points*
- *Part 4: ITS station-internal management communications*
- *Part 5: Fast service advertisement protocol (FSAP)*

The following parts are under preparation:

- *Part 2: Remote management*
- *Part 6: Path and flow management*



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## Introduction

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

This part of ISO 24102 is part 3 of a multipart International 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](#), and in line with the general ITS architecture specified in ISO 21217.

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09.35.19/source/fig\_1.eps.

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**Figure 1 — ITS station reference architecture with named interfaces**

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

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

## Part 3: Service access points

### 1 Scope

This part of ISO 24102 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 and 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 and transport layer,
  - the ITS-S facilities layer,
- the interface between the ITS-S management entity and the ITS-S security entity (MS-SAP),
- A1 the interfaces between the ITS-S application entity and
  - the ITS-S management entity (MA-SAP), and
  - the ITS-S security entity (SA-SAP). A1

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

ISO 21217, *Intelligent transport systems — Communications access for land mobiles (CALM) — Architecture*

ISO 21218, *Intelligent transport systems — Communications access for land mobiles (CALM) — Access technology support*

ISO 24102-1, *Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management — Part 1: Local management*

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

ISO 24102-5, *Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management — Part 5: Fast service advertisement protocol (FSAP)*