



BSI Standards Publication

Intelligent transport systems — Localized communications

Part 2: Legacy system support

National foreword

This British Standard is the UK implementation of ISO 29281-2:2019. It supersedes BS ISO 29281-2:2013+A1:2014, which is withdrawn.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.

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© The British Standards Institution 2019
Published by BSI Standards Limited 2019

ISBN 978 0 539 00907 1

ICS 03.220.01; 35.240.60

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2019.

Amendments/corrigenda issued since publication

Date	Text affected
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INTERNATIONAL
STANDARD

ISO
29281-2

Second edition
2019-01-28

**Intelligent transport systems —
Localized communications —**

**Part 2:
Legacy system support**

*Systèmes intelligents de transport — Communications localisées —
Partie 2: Support pour systèmes hérités*



Reference number
ISO 29281-2:2019(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).

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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 29281-2:2013), which has been technically revised. It also incorporates the Amendment ISO 29281-2:2013/Amd 1:2014.

A list of all parts of the ISO 29281 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.

Introduction

This document is part of a family of International Standards for communications in Intelligent Transport Systems (ITS) based on the ITS station and communication architecture specified in ISO 21217:2014.

This document is Part 2 of a multipart series of International Standards which determines functionalities of ITS localized communications related to the legacy communications application layer specified in ISO 15628. These functionalities are protocols and procedures located in the various layers and entities of the ITS station.

Intelligent transport systems — Localized communications —

Part 2: Legacy system support

1 Scope

This document specifies elements of communications for localized communications in ITS.

In particular, the following architectures, procedures and protocols are specified:

- support of communication interfaces (DSRC-CI) using the DSRC application layer specified in ISO 15628;
- support of ISO 15628 DSRC applications via an ITS access technology suited for localized communications.

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

ISO 15628, *Intelligent transport systems — Dedicated short range communication (DSRC) — DSRC application layer*

ISO 17419, *Intelligent transport systems — Cooperative systems — Globally unique identification*

ISO 17423, *Intelligent transport systems — Cooperative systems — Application requirements and objectives*

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

ISO 21218, *Intelligent transport systems — Hybrid communications — Access technology support*

ISO 22418, *Intelligent transport systems — Fast service announcement protocol (FSAP)*

ISO 24102-1, *Intelligent transport systems — ITS station management — Part 1: Local management*

ISO 24102-3, *Intelligent transport systems — ITS station management — Part 3: Service access points*

ISO 24102-4, *Intelligent transport systems — ITS station management — Part 4: Station-internal management communications*

ISO 24103, *Intelligent transport systems — Communications access for land mobiles (CALM) — Media adapted interface layer (MAIL)*

ISO 29281-1, *Intelligent transport systems — Localized communications — Part 1: Fast networking & transport layer protocol (FNTTP)*