INTERNATIONAL STANDARD

ISO 29281-2

> Second edition 2019-01

Intelligent transport systems -Localized communications —

Part 2: Legacy system support

ntellige Support po. Systèmes intelligents de transport — Communications localisées — Partie 2: Support pour systèmes hérités





© ISO 2019

olementation, no partanical, includir requested fr All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Fax: +41 22 749 09 47 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Conten	11.5	Page
Foreword		iv
Introduct	ion	v
1 Sco	ppe	1
2 No	rmative references	1
3 Ter	rms and definitions	2
4 Syr	mbols and abbreviated terms	2
5 Rec	quirements	2
6 Arc 6.1 6.2 6.3 6.4 6.5	Communication scenarios Implementation scenarios 15628 legacy CIs	
7 Fac 7.1 7.2 7.3 7.4	FSAP communication handler Legacy CI Port Agent 15628 kernel emulator 7.4.1 15628 legacy applications 7.4.2 CI classes 7.4.3 Registration of 15628 legacy applications 7.4.4 Service operation phase	
	nformance	
9 Tes	st methods	9
	normative) ASN.1	
Annex B (normative) 15628 legacy CI	11
Annex C (i	informative) 15628 legacy service guidelines	17
Bibliogra	phy	27

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 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 The function of the control of the c 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.

This document is a previous general ded by tills

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 (FNTP)