

INTERNATIONAL
STANDARD

ISO
17575-2

First edition
2016-01-15

**Electronic fee collection —
Application interface definition for
autonomous systems —**

**Part 2:
Communication and connection to
the lower layers**

*Perception du télépéage — Définition de l'interface d'application pour
les systèmes autonomes —*

Partie 2: Communications et connexions aux couches basses



Reference number
ISO 17575-2:2016(E)

© ISO 2016



COPYRIGHT PROTECTED DOCUMENT

© ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, 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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

| | Page |
|--|-----------|
| Foreword | iv |
| Introduction | v |
| 1 Scope | 1 |
| 2 Terms and definitions | 2 |
| 3 Abbreviated terms | 3 |
| 4 EFC Front End communication architecture | 4 |
| 4.1 General | 4 |
| 4.2 Relationship with the overall EFC architecture | 5 |
| 5 EFC communication services (functions) | 5 |
| 5.1 General concept | 5 |
| 5.2 Initialization phase | 7 |
| 5.2.1 General | 7 |
| 5.2.2 Incoming (BE to FE Application) session request | 7 |
| 5.2.3 Outgoing (FE Application to BE) session establishment | 8 |
| 5.3 Point-to-point communication service primitives | 8 |
| 5.3.1 General | 8 |
| 5.3.2 Unstructured messages (ADUs) | 8 |
| 5.3.3 Structured messages (ADUs) | 8 |
| 5.4 Session end | 8 |
| 5.5 Session failure | 9 |
| 5.6 Security considerations | 9 |
| 5.7 Media selection options | 9 |
| 6 The use of a communication stack | 9 |
| 6.1 General | 9 |
| 6.2 Requirements for an underlying communication technology | 9 |
| 6.3 Mobile terminated calls | 10 |
| Annex A (normative) Abstract API definition | 11 |
| Annex B (normative) Protocol implementation conformance statement (PICS) proforma | 17 |
| Annex C (informative) API requirements | 22 |
| Annex D (informative) Examples of definitions for appropriate languages | 23 |
| Annex E (informative) Use of this part of ISO 17575 for the EETS | 26 |
| Bibliography | 28 |