INTERNATIONAL STANDARD

ISO/IEC 18328-4

First edition
2018-06

Identification cards — ICC-managed devices —

Part 4: Test methods for logical characteristics

Cartes d'identification — Dispositifs contrôlés par carte à circuit intégré (ICC) —

Partie 4: Titre manque

Reference number
ISO/IEC 18328-4:2018(E)

© ISO/IEC 2018

COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2018

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

Contents

Page

Foreword ..... **v**
Introduction ..... **vi**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Abbreviated terms **1**
5 Test design **1**
5.1 General 1
5.2 Device under test (DUT) 2
5.3 Test unit 2
5.4 Test case 2
5.5 Test report 4
6 Test methods **4**
6.1 General test requirements 4
6.1.1 Preconditions for testing 4
6.1.2 Test setup 4
6.2 List of test cases 4
6.3 Test unit Idle 5
6.3.1 Test unit 5
6.3.2 Test case Idle 001 6
6.3.3 Test case Idle 002 6
6.3.4 Test case Idle 003 7
6.3.5 Test case Idle 004 7
6.4 Test unit Ready 8
6.4.1 Test unit 8
6.4.2 Test case Ready 001 8
6.4.3 Test case Ready 002 8
6.4.4 Test case Ready 003 10
6.4.5 Test case Ready 004 11
6.4.6 Test case Ready 005 11
6.4.7 Test case Ready 006 12
6.4.8 Test case Ready 007 13
6.5 Test unit Input 14
6.5.1 Test unit 14
6.5.2 Test case Input 001 14
6.5.3 Test case Input 002 15
6.6 Test unit Output 16
6.6.1 Test unit 16
6.6.2 Test case Output 001 16
6.6.3 Test case Output 002 17
6.7 Test unit Erase 18
6.7.1 Test unit 18
6.7.2 Test case Erase 001 18
6.8 Test unit Deactivated 19
6.8.1 Test unit 19
6.8.2 Test case Deactivated 001 19
6.8.3 Test case Deactivated 002 20
6.9 Test unit Exclusive 20
6.9.1 Test unit 20
6.9.2 Test case Exclusive 001 20
6.9.3 Test case Exclusive 002 21
6.10 Test unit General 22

© ISO/IEC 2018 – All rights reserved

6.10.1 Test unit 22
6.10.2 Test case General 001 22
6.10.3 Test case General 002 22
6.11 Test unit Timeout 23
6.11.1 Test unit 23
6.11.2 Test case Timeout 001 23
6.12 Test unit Shareability 24
6.12.1 Test unit 24
6.12.2 Test case Shareability 001 24
6.12.3 Test case Shareability 002 25
6.12.4 Test case Shareability 003 26
6.12.5 Test case Shareability 004 27
Bibliography **28**

 © ISO/IEC 2018 – All rights reserved

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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 document 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 and IEC 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 on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by ISO/IEC JTC 1, *Information technology*, SC 17, *Cards and personal identification*.

A list of all the parts in the ISO 18328 series can be found on the ISO website.

© ISO/IEC 2018 – All rights reserved

Introduction

The ISO/IEC 18328 series of standards establishes a normative basis for an ICC with at least one additional device, such as an ICC-managed device.

This document prescribes requirements for testing the conformance of an ICC with at least one ICC-managed device with requirements of ISO/IEC 18328-3, respectively.

© ISO/IEC 2018 – All rights reserved

Identification cards — ICC-managed devices —

Part 4:
Test methods for logical characteristics

1 Scope

This document specifies the test methods used for conformity testing, to determine whether an ICC with at least one ICC-managed device is considered to conform with the specifications of ISO/IEC 18328-3, e.g. device management and device handling.

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 7816-4, *Identification cards — Integrated circuit cards — Part 4: Organization, security and commands for interchange*

ISO/IEC 18328-1, *Identification cards — ICC-managed devices — Part 1: General framework*

ISO/IEC 18328-2, *Identification cards — ICC-managed devices — Part 2: Physical characteristics and test methods for cards with devices*

ISO/IEC 18328-3, *Identification cards — ICC-managed devices — Part 3: Organization, security and commands for interchange*

© ISO/IEC 2018 – All rights reserved