



**International
Standard**

ISO/IEC 18584-1

**Information technology — Test
methods for on-card biometric
comparison applications —**

**Part 1:
General principles and
specifications**

*Technologies de l'information — Méthodes d'essai pour les
applications de comparaison biométrique sur carte —*

Partie 1: Principes généraux et spécifications

**First edition
2025-05**

<https://standards.iteh.ai/catalog/standards/iso/1866422f-8d0a-4102-b0b3-9623696b8592/iso-iec-18584-1-2025>

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO/IEC 18584-1:2025

<https://standards.iteh.ai/catalog/standards/iso/1866422f-8d0a-4102-b0b3-9623696b8592/iso-iec-18584-1-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2025

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
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	2
5 Test methodology	2
5.1 Test environment	2
5.2 Test case	3
5.3 Test report	3
6 ICC configuration profile	3
7 Summary of the test cases	4
8 Common test requirement	5
9 Test requirements related to framework for on-card biometric comparison	6
9.1 Data for on-card biometric comparison — CBEFF-3 BIDO	6
9.1.1 General	6
9.1.2 Test case: CBF_001	6
9.2 Data for on-card biometric comparison — Biometric functionality information	7
9.2.1 General	7
9.2.2 Test case: BFI_001	7
9.3 Data for on-card biometric comparison — Biometric comparison parameters	9
9.3.1 General	9
9.3.2 Test case: BCP_001	9
9.3.3 Test case: BCP_002	11
9.4 Processes	11
9.4.1 Enrolment	11
9.4.2 Biometric verification	12
9.4.3 Re-enrolment	12
9.5 Termination	14
9.5.1 General	14
9.5.2 Test case: TMN_001	14
9.5.3 Test case: TMN_002	15
10 Security policy	15
10.1 Retry counter management	15
10.1.1 General	15
10.1.2 Test case: RCM_001	16
10.1.3 Test case: RCM_002	16
10.1.4 Test case: RCM_003	17
10.2 Security policy for SP1	17
10.2.1 General	17
10.2.2 Test case: SP1_001	17
10.3 Security policy for SP2	18
10.3.1 General	18
10.3.2 Test case: SP2_001	18

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.

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 or www.iec.ch/members_experts/refdocs).

ISO and IEC draw attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO and IEC take no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO and IEC had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents and <https://patents.iec.ch>. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

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. In the IEC, see www.iec.ch/understanding-standards.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and security devices for personal identification*.

This first edition of ISO/IEC 18584-1, together with ISO/IEC 18584-2, cancels and replaces ISO/IEC 18584:2015.

A list of all parts in the ISO/IEC 18584 series can be found on the ISO and IEC websites.

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 and www.iec.ch/national-committees.