



Technical Specification

ISO/IEC TS 18013-6

Personal identification — ISO- compliant driving licence —

Part 6: mDL test methods

*Identification des personnes — Permis de conduire conforme
à l'ISO —*

*Partie 6: Méthodes d'essai relatives au permis de conduire sur
téléphone mobile*

**First edition
2024-11**



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2024

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	2
4 Abbreviated terms	3
5 Conformance	3
6 Test design	3
6.1 General.....	3
6.2 Test case hierarchy.....	4
6.2.1 Structure.....	4
6.2.2 System under test.....	4
6.2.3 Test layers, test areas, test groups and test units.....	5
6.2.4 Test cases.....	5
6.3 Test administration.....	7
6.3.1 Preconditions for testing of an mDL.....	7
6.3.2 Preconditions for testing of an mDL reader.....	9
6.3.3 Implementation conformance statements.....	11
6.3.4 Test report.....	12
7 mDL conformity test methods	12
8 mDL reader conformity test methods	12
Annex A (normative) Test case hierarchies	13
Annex B (informative) Implementation conformance statements	18
Annex C (normative) Test certificates	26
Bibliography	57

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*.

A list of all parts in the ISO/IEC 18013 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.

Introduction

The ISO/IEC 18013 series establishes guidelines for the design format and data content of an ISO-compliant driving licence (IDL) with regard to human-readable features (ISO/IEC 18013-1), ISO machine-readable technologies (ISO/IEC 18013-2), access control, authentication and integrity validation (ISO/IEC 18013-3), associated test methods (ISO/IEC 18013-4) and interface and related requirements to facilitate ISO-compliant driving licence (IDL) functionality on a mobile device (ISO/IEC 18013-5). It creates a common basis for international use and mutual recognition of the IDL without impeding individual countries/states in applying their privacy rules and national/community/regional motor vehicle authorities in taking care of their specific needs.

ISO/IEC 18013-5 establishes interface specifications for the implementation of a driving licence in association with a mobile device. It specifies the interface between the mobile driving licence (mDL) and mDL reader and the interface between the mDL reader and the issuing authority infrastructure.

This document prescribes requirements for testing of the compliance of the data model, device engagement, data transfer and security mechanisms on a mobile driving application with the requirements of ISO/IEC 18013-5.

Personal identification — ISO-compliant driving licence —

Part 6: mDL test methods

1 Scope

This document specifies test methods for testing conformity of a mobile driving licence (mDL) or an mDL reader to ISO/IEC 18013-5. This document specifies test methods for:

- mDL on its interface to an mDL reader;
- mDL reader on its interface to an mDL;
- mDL reader on its (optional) interface to an issuing authority infrastructure.

Test cases for an issuing authority infrastructure on its interface to an mDL reader are not included in this document.

Test cases for the use of OIDC by an mDL reader on its interface to an issuing authority infrastructure are not included in this document. This document only provides test cases for the use of WebAPI on this interface.

This document only addresses the functional behaviour of an implementation under test (IUT) on its interface(s) in scope. It does not address:

- the internal implementation of an IUT, such as a secure area in an mDL;
- any functional requirements to an IUT not specified in ISO/IEC 18013-5, for example, requirements of a particular issuing authority;
- non-functional aspects of the IUT, nor IUT interfaces not listed above, such as the interface from an issuing authority infrastructure to an mDL, used to provision mDL data.

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 9646 (all parts), *Information technology — Open Systems Interconnection — Conformance testing methodology and framework*

ISO/IEC 18013-5:2021, *Personal identification — ISO-compliant driving licence — Part 5: Mobile driving licence (mDL) application*

Bluetooth, *Bluetooth Core Specification, Version 5.2*

Bluetooth, *Supplement to the Bluetooth Core Specification, Version 9*

NFC Forum, *Connection Handover Technical Specification, Version 1.5, 2020*

Wi-Fi Alliance, *Neighbor Awareness Networking Specification, Version 3.1*