Technical Specification

ISO/IEC TS 18013-7

# Personal identification — ISO-compliant driving licence —

## Part 7: Mobile driving licence (mDL) add-on functions

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

*Partie 7: Fonctionnalités supplémentaires pour permis de conduire sur téléphone mobile*

Second edition
2025-05

Reference number
ISO/IEC TS 18013-7:2025(en)

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Published in Switzerland

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# 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).

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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 second edition cancels and replaces the first edition (ISO/IEC TS 18013-7:2024), which has been technically revised.

The main changes are as follows:

— Annex A.5, mdoc MAC authentication, was updated;

— normative Annex C, Digital credentials API retrieval, was added.

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-ommittees.

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# Introduction

ISO/IEC 18013-5 describes interface and related requirements to facilitate ISO-compliant driving licence functionality on a mobile device, standardizing the mobile driving licence (mDL) functionality.

This document augments the capabilities of the mDL by describing the interface and related requirements for presentation to a mDL reader over the internet.

A mobile document conforming to this document primarily conveys the driving privileges associated with a person. However, the transaction and security mechanisms in this document have been designed to support other types of mobile documents, specifically including identification documents.

NOTE ISO/IEC 18013-5 places the onus on the mDL verifier to match data received (in an mdoc) to the person presenting the mdoc. This edition of this document does not change that.

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# Personal identification — ISO-compliant driving licence —

# Part 7:
# Mobile driving licence (mDL) add-on functions

## 1 Scope

This document augments the capabilities of the mobile driving licence (mDL) standardized in ISO/IEC 18013-5 with the following additional functionality:

— presentation of a mobile driving licence to a reader over the internet.

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

RFC 4648, *S. Josefsson, The Base16, Base32, and Base64 Data Encodings*

RFC 5280, *D. Cooper et al., Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile*

RFC 9101, *N. Sakimura, The OAuth 2.0 Authorization Framework: JWT-Secured Authorization Request (JAR)*

RFC 9112, *R. Fielding et al., HTTP/1.1*

RFC 9180, *R. Barnes et al., Hybrid Public Key Encryption*

OID4VP (OpenID for Verifiable Presentations), *O. Terbu et al., Draft 18,* April 2023

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 18013-5 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

**3.1**
**mdoc reader**
either device or service, or both, that can retrieve data from an mdoc and verify the authenticity of the data

Note 1 to entry: The mdoc reader includes, but is not limited to, the hardware and software components used.

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