INTERNATIONAL STANDARD

**ISO/IEC 18013-5**

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# Personal identification — ISO-compliant driving licence —

## Part 5: Mobile driving licence (mDL) application

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

*Partie 5: Application permis de conduire sur téléphone mobile*

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# Foreword

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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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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*.

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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.

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# 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), and associated test methods (ISO/IEC 18013-4). 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.

This document describes interface and related requirements to facilitate ISO-compliant driving licence (IDL) functionality on a mobile device. The requirements are specifically intended to enable verifiers not affiliated with or associated with the issuing authority to gain access to and authenticate the information. In addition, the requirements allow the holder of the driving licence to decide what information to release to a verifier. Other characteristics include the ability to update information frequently, and to authenticate information at a high level of confidence.

A mobile document conforming to this document primarily conveys the driving privileges associated with a person. It does so by providing means to associate the person presenting the mobile document with the mobile document itself. However, the transaction and security mechanisms in this document have been designed to support other types of mobile documents, specifically including identification documents. Consequently the mechanisms in this document can be used for any type of mobile identification document, regardless of the additional attributes the mobile document may convey. The details of the data elements to be used by other mobile documents are left to the respective issuing authority and are not within the scope of this document.

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# Personal identification — ISO-compliant driving licence —

# Part 5:
# Mobile driving licence (mDL) application

## 1 Scope

This document establishes interface specifications for the implementation of a driving licence in association with a mobile device. This document specifies the interface between the mDL and mDL reader and the interface between the mDL reader and the issuing authority infrastructure. This document also enables parties other than the issuing authority (e.g. other issuing authorities, or mDL verifiers in other countries) to:

— use a machine to obtain the mDL data;

— tie the mDL to the mDL holder;

— authenticate the origin of the mDL data;

— verify the integrity of the mDL data.

The following items are out of scope for this document:

— how mDL holder consent to share data is obtained;

— requirements on storage of mDL data and mDL private keys.

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## 2 Normative references

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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 3166-1, *Codes for the representation of names of countries and their subdivisions — Part 1: Country code*

ISO 3166-2:2020, *Codes for the representation of names of countries and their subdivisions — Part 2: Country subdivision code*

ISO/IEC 5218, *Information technology — Codes for the representation of human sexes*

ISO/IEC 7816-4:2020, *Identification cards — Integrated circuit cards — Part 4: Organization, security and commands for interchange*

ISO/IEC 8859-1, *Information technology — 8-bit single-byte coded graphic character sets — Part 1: Latin alphabet No. 1*

ISO/IEC 18004, *Information technology — Automatic identification and data capture techniques — QR Code bar code symbology specification*

ISO/IEC 18013-1:2018, *Information technology — Personal identification — ISO-compliant driving licence — Part 1: Physical characteristics and basic data set*

ISO/IEC 18013-2:2020, *Personal identification — ISO-compliant driving licence — Part 2: Machine-readable technologies*

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