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**Personal identification — ISO-compliant driving licence — Part 2: Machine-readable technologies**

ICS 35.240.15



**Mauritius Standards Bureau  
Moka**

## National foreword

This Mauritian Standard is identical with the International Standard **ISO/IEC 18013-2:2020 - Personal identification — ISO-compliant driving licence — Part 2: Machine-readable technologies**. It was adopted by the Mauritius Standards Bureau on the recommendation of the **Information Technology Standards Committee**. The standard was approved by the **Standards Council** on 27 January 2021 and notified in the Government Gazette on **27 February 2021**.\*

\* **General Notice No. 387 of 2021**



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*Mauritius Standards Bureau  
Villa Road  
Moka  
Mauritius*

*Telephone*           + (230) 433 3648  
*Fax*                     + (230) 433 5051/ 433 5150  
*E-mail*                [msb@intnet.mu](mailto:msb@intnet.mu)

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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](http://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](http://www.iso.org/patents)) or the IEC list of patent declarations received (see <http://patents.iec.ch>).

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](http://www.iso.org/iso/foreword.html).

This document was prepared by 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 18013-2:2008), which has been technically revised. It also incorporates the Technical Corrigendum ISO/IEC 18013-2:2008/Cor 1:2011.

The main changes compared to the previous edition are as follows:

- following the revision of ISO/IEC 18013-3 and ISO/IEC 18013-1, magnetic stripe and optical memory machine-readable technologies are no longer supported by this document;
- the vehicle categories in respect of which driving licence may be issued have been updated to incorporate the contemplated amendments to the UN Conventions;
- the restrictions which may be applicable to a driving licence have been updated.

A list of all parts in the ISO/IEC 18013 series can be found on the ISO website.

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](http://www.iso.org/members.html).

## Introduction

ISO/IEC 18013 (all parts) 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), and access control, authentication and integrity validation (ISO/IEC 18013-3). 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 prescribes requirements for the implementation of machine-readable technology on an IDL.

One of the functions of an IDL is to facilitate international interchange. Storing IDL data in a machine-readable form supports this function by speeding up data input and eliminating transcription errors. Consequently, the automation and productivity of traffic law enforcement and other traffic safety processes can be improved.

This document allows issuing authorities to customise machine-readable data for domestic use. Apart from international interchange, the use of an IDL as a domestic driving licence thus provides for domestic standardisation and creates a domestic infrastructure capable of processing IDLs issued by other issuing authorities.

Provision is made for issuing authorities to validate the authenticity and integrity of the mandatory and optional data. In addition, the option of protecting access to optional data (beyond basic access protection) is provided for. The exact mechanism used to achieve such protection (e.g. encryption and/or additional access control) is specified in ISO/IEC 18013-3.

Preview

# Personal identification — ISO-compliant driving licence —

## Part 2: Machine-readable technologies

### 1 Scope

The purpose of storing IDL data on machine-readable media on the IDL is to:

- increase productivity (of data and IDL use),
- facilitate electronic data exchange, and
- assist in authenticity and integrity validation.

This document thus specifies the following:

- mandatory and optional machine-readable data;
- the logical data structure;
- encoding rules for the machine-readable technologies currently supported.

To prevent unauthorised access to the data contained on a contactless IC (e.g. by eavesdropping), the privacy of the licence holder is protected via basic access protection requiring a human-readable and/or machine-readable key/password on the IDL to access the data on the PIC (via protected-channel communication). The implementation details of this function are defined in ISO/IEC 18013-3.

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

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

ISO/IEC 7812-1, *Identification cards — Identification of issuers — Part 1: Numbering system*

ISO/IEC 7816-1, *Identification cards — Integrated circuit cards — Part 1: Cards with contacts — Physical characteristics*

ISO/IEC 7816-2, *Identification cards — Integrated circuit cards — Part 2: Cards with contacts — Dimensions and location of the contacts*

ISO/IEC 7816-3, *Identification cards — Integrated circuit cards — Part 3: Cards with contacts — Electrical interface and transmission protocols*

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

ISO/IEC 7816-5, *Identification cards — Integrated circuit cards — Part 5: Registration of application providers*