
**Information technology — Test
methods for machine readable travel
documents (MRTD) and associated
devices —**

**Part 2:
Test methods for the contactless
interface**

*Technologies de l'information — Méthodes d'essai pour les documents
de voyage lisibles par machine (MRTD) et dispositifs associés —*

Partie 2: Méthodes d'essai de l'interface sans contact

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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/IEC JTC 1, *Information technology, SC 17, Cards and personal identification*.

ISO/IEC 18745 consists of the following parts, under the general title, *Test methods for machine readable travel documents (MRTD) and associated devices*:

- *Part 1: Physical test methods for passport books (durability)*
- *Part 2: Test methods for the contactless interface*

Introduction

This part of ISO/IEC 18745 defines the test plan regarding contactless interface for eMRTDs and eMRTD associated readers compliant to ICAO Doc 9303.

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Information technology — Test methods for machine readable travel documents (MRTD) and associated devices —

Part 2: Test methods for the contactless interface

1 Scope

This part of ISO/IEC 18745 defines the test plan, based on ISO/IEC 10373-6, for the contactless interface of eMRTDs and eMRTD associated readers compliant with ICAO Doc 9303.

Application requirements for eMRTD and eMRTD reader are outside of the scope of this part of ISO/IEC 18745.

2 Normative references

The following referenced documents are indispensable for the application 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 7810:2003/Amd 1:2009, *Identification cards — Physical characteristics*

ISO/IEC 10373-6:2016, *Identification cards — Test methods — Part 6: Proximity cards*¹⁾

ISO/IEC 14443-1:2016, *Identification cards — Contactless integrated circuit cards — Proximity cards — Part 1: Physical characteristics*¹⁾

ISO/IEC 14443-2:2016, *Identification cards — Contactless integrated circuit cards — Proximity cards — Part 2: Radio frequency power and signal interface*¹⁾

ISO/IEC 14443-3, *Identification cards — Contactless integrated circuit cards — Proximity cards — Part 3: Initialization and anticollision*¹⁾

ISO/IEC 14443-4:2016, *Identification cards — Contactless integrated circuit cards — Proximity cards — Part 4: Transmission protocol*¹⁾

ICAO Doc 9303, *Machine Readable Travel Documents — Seventh Edition, 2015*

3 Terms and definition

For the purposes of this document, the following terms and definitions apply.

3.1

test method

method for testing the characteristics of eMRTDs and eMRTD associated readers for the purpose of assessing their conformance with International Standards

1) If ISO/IEC 10373 or ISO/IEC 14443 series are referred, read with replacing PICC with eMRTD and PCD with eMRTD associated reader.