AS ISO/IEC 14443.1:2022
ISO/IEC 14443-1:2018

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Cards and security devices for personal identification — Contactless proximity objects

Part 1: Physical characteristics

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This Australian Standard ® was prepared by IT-017, Cards and security devices for personal identification. It was approved on behalf of the Council of Standards Australia on 6 June 2022.

This Standard was published on 24 June 2022.

The following are represented on Committee IT-017:

Australia Post
Australian Hotels Association
Australian Industry Group
Australian Passport Office
Australian Security Industry Association
Department of Home Affairs — Identity and Biometrics Division
Department of Transport and Main Roads, QLD

This Standard was issued in draft form for comment as DR AS ISO/IEC 14443.1:2022.

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ISBN 978 1 76113 854 6

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ISO/IEC 14443-1:2018

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Originated as AS 14443.1—2003.
Second edition 2022.

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Preface

This Standard was prepared by the Standards Australia Committee IT-017, Cards and security devices for personal identification, to supersede AS 14443.1:2003, *Identification cards — Contactless integrated circuit(s) cards — Proximity cards, Part 1: Physical characteristics.*

The objective of this document is to define the physical characteristics of proximity cards (PICCs).

This document is intended to be used in conjunction with other parts of the AS ISO/IEC 14443 series.

This document is identical with, and has been reproduced from, ISO/IEC 14443-1:2018, *Cards and security devices for personal identification — Contactless proximity objects — Part 1: Physical characteristics*.

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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 (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 (http://www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and security devices for personal identification*.

This fourth edition cancels and replaces the third edition (ISO/IEC 14443-1:2016), which has been technically revised.

A list of all the parts in the ISO/IEC 14443 series, can be found on the ISO website.

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Introduction

Contactless card standards encompass a variety of types as embodied in the ISO/IEC 10536 series of standards (close-coupled cards), the ISO/IEC 14443 series of standards (Contactless proximity objects) and the ISO/IEC 15693 series of standards (Contactless vicinity objects). These device types are intended, respectively, for operation when very near, nearby and at a longer distance from associated coupling devices.

The ISO/IEC 14443 series of standards defines the technology-specific requirements for identification cards conforming to ISO/IEC 7810 and thin flexible cards conforming to ISO/IEC 15457-1 and the use of such cards to facilitate international interchange. However, it also recognizes that the technology offers the possibility that proximity objects may be provided in forms other than that of the International Standard card formats. Furthermore, it does not preclude the incorporation of other standard technologies on the card, such as those referenced in the Bibliography.

The ISO/IEC 14443 series of standards accommodates the operation of proximity cards in the presence of other contactless cards conforming to the ISO/IEC 10536 series of standards and the ISO/IEC 15693 series of standards.

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