

Australian Standard™

**Identification cards—Contactless
integrated circuit(s) cards—Vicinity
cards**

**Part 3: Anticollision and transmission
protocol**

This Australian Standard was prepared by Committee IT-012, Information Systems, Security and Identification Technology. It was approved on behalf of the Council of Standards Australia on 4 March 2003 and published on 31 March 2003.

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee IT-012, Information Systems, Security and Identification Technology. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

It is identical with, and has been reproduced from ISO/IEC 15693-3:2001, *Identification cards—Contactless integrated circuit(s) cards—Vicinity cards, Part 3: Anticollision and transmission protocol*.

The objective of this Standard is to provide a description of the anticollision and transmission protocols as used in contactless ID cards.

This Standard is Part 3 of AS 15693, *Identification cards—Contactless integrated circuit(s)—Vicinity cards*, which is published in parts as follows:

Part 1: Physical characteristics

Part 2: Air interface and initialization

Part 3: Anticollision and transmission protocol (this Standard)

The terms ‘normative’ and ‘informative’ are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
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References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO/IEC		AS	
7816	Identification cards—Integrated circuit(s) cards with contacts	4954	Identification cards—Integrated circuit(s) cards with contacts
7816-5	Part 5: Numbering system and registration procedure for application identifiers	4954.5	Part 5: Numbering system and registration procedure for application identifiers
15693	Identification cards—Contactless integrated circuit(s) cards—Vicinity cards	15693	Identification cards—Contactless integrated circuit(s) cards—Vicinity cards
15693-1	Part 1: Physical characteristics	15693.1	Part 1: Physical characteristics
15693-2	Part 2: Air interface and initialization	15693.2	Part 2: Air interface and initialisation

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AUSTRALIAN STANDARD

Identification cards — Contactless integrated circuit(s) cards — Vicinity cards —**Part 3:
Anticollision and transmission protocol****1 Scope**

This part of ISO/IEC 15693 describes:

- protocol and commands,
- other parameters required to initialize communications between a VICC and a VCD,
- methods to detect and communicate with one card among several cards ("anticollision"),
- optional means to ease and speed up the selection of one among several cards based on application criteria.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 15693. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO/IEC 15693 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO/IEC 7816-5, *Identification cards — Integrated circuit(s) cards with contacts — Part 5: Numbering system and registration procedure for application identifiers.*

ISO/IEC 7816-6:1996, *Identification cards — Integrated circuit(s) cards with contacts — Part 6: Interindustry data element*, and its Amendment 1:2000, *IC manufacturer registration.*

ISO/IEC 10373-7, *Identification cards — Test methods — Part 7: Vicinity cards.*

ISO/IEC 13239, *Information technology — Telecommunications and information exchange between systems — High-level data link control (HDLC) procedures.*

ISO/IEC 15693-1, *Identification cards — Contactless integrated circuit(s) cards — Vicinity cards — Part 1: Physical characteristics.*

ISO/IEC 15693-2:2000, *Identification cards — Contactless integrated circuit(s) cards — Vicinity cards — Part 2: Air interface and initialization.*