

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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First published as AS 15693.3—2003.

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Published by Standards Australia International Ltd  
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 5121 0

## 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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- Its number appears on the cover and title page while the International Standard number appears only on the cover.
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- A full point substitutes for a comma when referring to a decimal marker.

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

## CONTENTS

	<i>Page</i>	
1	Scope .....	1
2	Normative references .....	1
3	Definitions, abbreviations and symbols .....	2
3.1	Definitions .....	2
3.1.1	Anticollision loop .....	2
3.1.2	Byte .....	2
3.2	Abbreviations .....	2
3.3	Symbols .....	2
4	Definition of data elements .....	2
4.1	Unique identifier (UID) .....	2
4.2	Application family identifier (AFI) .....	3
4.3	Data storage format identifier (DSFID) .....	6
4.4	CRC .....	6
5	VICC memory organization .....	6
6	Block security status .....	7
7	Overall protocol description .....	7
7.1	Protocol concept .....	7
7.2	Modes .....	8
7.2.1	Addressed mode .....	8
7.2.2	Non-addressed mode .....	8
7.2.3	Select mode .....	8
7.3	Request format .....	9
7.3.1	Request flags .....	9
7.4	Response format .....	10
7.4.1	Response flags .....	11
7.4.2	Response error code .....	11
7.5	VICC states .....	12
7.5.1	Power-off state .....	12
7.5.2	Ready state .....	12
7.5.3	Quiet state .....	12
7.5.4	Selected state .....	13
8	Anticollision .....	14
8.1	Request parameters .....	14
8.2	Request processing by the VICC .....	15
8.3	Explanation of an anticollision sequence .....	17
9	Timing specifications .....	18
9.1.1	VICC waiting time before transmitting its response after reception of an EOF from the VCD .....	18
9.1.2	VICC modulation ignore time after reception of an EOF from the VCD .....	19
9.1.3	VCD waiting time before sending a subsequent request .....	19
9.1.4	VCD waiting time before switching to the next slot during an inventory process .....	20
10	Commands .....	21
10.1	Command types .....	21
10.1.1	Mandatory .....	21
10.1.2	Optional .....	21
10.1.3	Custom .....	21

10.1.4	Proprietary .....	21
10.2	Command codes .....	22
10.3	Mandatory commands .....	22
10.3.1	Inventory .....	22
10.3.2	Stay quiet .....	23
10.4	Optional commands .....	24
10.4.1	Read single block .....	24
10.4.2	Write single block .....	25
10.4.3	Lock block .....	26
10.4.4	Read multiple blocks .....	27
10.4.5	Write multiple blocks .....	28
10.4.6	Select .....	29
10.4.7	Reset to ready .....	30
10.4.8	Write AFI .....	31
10.4.9	Lock AFI .....	32
10.4.10	Write DSFID command .....	32
10.4.11	Lock DSFID .....	33
10.4.12	Get system information .....	34
10.4.13	Get multiple block security status .....	36
10.5	Custom commands .....	37
10.6	Proprietary commands .....	38
Annex A (informative) Compatibility with other card standards .....		39
Annex B (informative) VCD pseudo-code for anticollision .....		40
Annex C (informative) Cyclic Redundancy Check (CRC) .....		41
C.1	The CRC error detection method .....	41
C.2	CRC calculation example .....	43
Bibliography of other ISO/IEC card standards .....		44

## 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 PICC 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 8233, *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.*