



**International
Standard**

ISO/IEC 15693-3

**Cards and security devices
for personal identification —
Contactless vicinity objects —**

**Part 3:
Anticollision and transmission
protocol**

*Cartes et dispositifs de sécurité pour l'identification
personnelle — Objets sans contact de voisinage —*

Partie 3: Anticollision et protocole de transmission

**Fourth edition
2026-05**



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Contents

	Page
Foreword	vi
Introduction	vii
1 Scope	1
2 Normative references	1
3 Terms, definitions, symbols and abbreviated terms	1
3.1 Terms and definitions.....	1
3.2 Symbols and abbreviated terms.....	2
4 Definition of data elements	3
4.1 UID.....	3
4.2 AFI.....	3
4.3 DSFID.....	5
4.4 CRC.....	5
4.5 Security framework.....	6
5 VICC memory organization	6
6 Block security status	6
7 Overall protocol description	7
7.1 Protocol concept.....	7
7.2 Modes.....	8
7.2.1 General.....	8
7.2.2 Addressed mode.....	8
7.2.3 Non-addressed mode.....	8
7.2.4 Select mode.....	8
7.3 Request format.....	9
7.3.1 General.....	9
7.3.2 Request flags.....	9
7.4 Response format.....	10
7.4.1 General.....	10
7.4.2 Response flags.....	10
7.4.3 Response error code.....	11
7.4.4 In-process reply response formats.....	12
7.4.5 Waiting time extension request formats.....	13
7.5 VICC states.....	13
7.5.1 General.....	13
7.5.2 Power-off state.....	14
7.5.3 Ready state.....	14
7.5.4 Quiet state.....	14
7.5.5 Selected state.....	14
7.5.6 Selected Secure state.....	15
8 Anticollision	16
8.1 General.....	16
8.2 Request parameters.....	16
8.3 Request processing by the VICC.....	16
8.4 Explanation of an anticollision sequence.....	18
9 Timing specifications	20
9.1 General.....	20
9.2 VICC waiting time before transmitting its response after reception of an EOF from the VCD.....	20
9.3 VICC modulation ignore time after reception of an EOF from the VCD.....	20
9.4 VCD waiting time before sending a subsequent request.....	20
9.5 VCD waiting time before switching to the next slot during an inventory process.....	21
9.5.1 General.....	21

ISO/IEC 15693-3:2026(en)

9.5.2	When the VCD has started to receive one or more VICC responses.....	21
9.5.3	When the VCD has received no VICC response.....	21
9.6	VICC waiting time before transmitting a response for Write alike commands.....	22
9.7	Security timeout as used in the CS.....	22
9.8	VICC replies as used in CS or extended functionalities.....	22
9.8.1	General.....	22
9.8.2	Immediate VICC reply.....	22
9.8.3	In-process reply.....	23
9.9	Waiting time extension reply.....	25
10	Commands.....	26
10.1	Command types.....	26
10.1.1	General.....	26
10.1.2	Mandatory.....	26
10.1.3	Optional.....	26
10.1.4	Custom.....	26
10.1.5	Proprietary.....	26
10.2	Command codes.....	26
10.3	Mandatory commands.....	28
10.3.1	Inventory.....	28
10.3.2	Stay quiet.....	28
10.4	Optional commands.....	29
10.4.1	Read single block.....	29
10.4.2	Write single block.....	30
10.4.3	Lock block.....	30
10.4.4	Read multiple blocks.....	31
10.4.5	Write multiple blocks.....	32
10.4.6	Select.....	33
10.4.7	Reset to ready.....	33
10.4.8	Write AFI.....	34
10.4.9	Lock AFI.....	35
10.4.10	Write DSFID command.....	35
10.4.11	Lock DSFID.....	36
10.4.12	Get system information.....	36
10.4.13	Get multiple block security status.....	38
10.4.14	Fast read multiple blocks.....	39
10.4.15	Extended read single block.....	40
10.4.16	Extended write single block.....	41
10.4.17	Extended lock block.....	42
10.4.18	Extended read multiple block.....	43
10.4.19	Extended write multiple blocks.....	44
10.4.20	Extended get multiple block security status.....	45
10.4.21	Fast extended read multiple blocks.....	46
10.4.22	Authenticate.....	47
10.4.23	KeyUpdate.....	48
10.4.24	Challenge.....	49
10.4.25	ReadBuffer.....	50
10.4.26	Extended get system information.....	51
10.5	Custom commands.....	55
10.6	Proprietary commands.....	55
11	Secured Communication.....	55
11.1	General.....	55
11.2	AuthComm.....	56
11.3	SecureComm.....	56
Annex A (informative) VCD pseudo-code for anticollision.....		58
Annex B (informative) Cyclic redundancy check (CRC).....		59
Annex C (informative) Examples of crypto command sequence.....		62

Annex D (normative) List of legacy commands	65
Bibliography	66

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.

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This document was prepared by Joint Technical Committee 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 15693-3:2019), which has been technically revised.

The main changes are as follows:

- extended IC manufacturer code.

A list of all parts in the ISO/IEC 15693 series can be found on the ISO and IEC websites.

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 and www.iec.ch/national-committees.

Introduction

The ISO/IEC 15693 series describes the parameters for identification cards as defined in ISO/IEC 7810 and the use of such cards for international interchange.

This document describes the anticollision and transmission protocols.

This document does not preclude the incorporation of other standard technologies on the card.

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

Cards and security devices for personal identification — Contactless vicinity objects —

Part 3: Anticollision and transmission protocol

1 Scope

This document specifies:

- protocols and commands;
- other parameters required to initialize communications between a vicinity integrated circuit card and a vicinity coupling device;
- 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.

This document does not preclude the addition of other existing card standards on the vicinity integrated circuit card (VICC), such as ISO/IEC 7816-6 or others listed in this document.

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/IEC 7816-6:2023, *Identification cards — Integrated circuit cards — Part 6: Interindustry data elements for interchange*

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

ISO/IEC 15418, *Information technology — Automatic identification and data capture techniques — GS1 Application Identifiers and ASC MH10 Data Identifiers and maintenance*

ISO/IEC 15693-1, *Cards and security devices for personal identification — Contactless vicinity objects — Part 1: Physical characteristics*

ISO/IEC 15693-2, *Cards and security devices for personal identification — Contactless vicinity objects — Part 2: Air interface and initialization*

Bibliography

- [1] ISO/IEC 7810, *Identification cards — Physical characteristics*
- [2] ISO/IEC 7811 (all parts), *Identification cards — Recording technique*
- [3] ISO/IEC 7812-1, *Identification cards — Identification of issuers — Part 1: Numbering system*
- [4] ISO/IEC 7812-2, *Identification cards — Identification of issuers — Part 2: Application and registration procedures*
- [5] ISO/IEC 7813, *Information technology — Identification cards — Financial transaction cards*
- [6] ISO/IEC 7816-2, *Identification cards — Integrated circuit cards — Part 2: Cards with contacts — Dimensions and location of the contacts*
- [7] ISO/IEC 10373-7, *Cards and security devices for personal identification — Test methods — Part 7: Contactless vicinity objects*
- [8] ISO/IEC 10536 (all parts), *Identification cards — Contactless integrated circuit(s) cards — Close-coupled cards*
- [9] ISO/IEC 14443 (all parts), *Cards and security devices for personal identification — Contactless proximity objects*
- [10] ISO/IEC 29167 (all parts), *Information technology — Automatic identification and data capture techniques*