INTERNATIONAL STANDARD

ISO/IEC 14443-4

> Second edition 2008-07-15 **AMENDMENT 3** 2013-10-01

Identification cards — Contactless integrated circuit cards — Proximity cards

Part 4: **Transmission protocol**

iTeh STAMENDMENT 3: Bit rates of 3fc/4, fc, 3fc/2 and 2fc from PCD to PICC

IS Cartes d'Identification 3.2 Cartes à circuit(s) intégré(s) sans contact — https://standards.iteh.cartes de proximité 7938916b-de72-4b7e-a70a-

Partie 4: Protocole de transmission

AMENDEMENT 3: Débits binaires de 3fc/4, fc, 3fc/2 et 2fc de PCD vers PICC



ISO/IEC 14443-4:2008/Amd 3:2013 https://standards.iteh.ai/catalog/standards/sist/7938916b-de72-4b7e-a70a-00a3590c9f8b/iso-iec-14443-4-2008-amd-3-2013



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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.

Amendment 3 to ISO/IEC 14443-4:2008 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, Cards and personal identification.

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AMENDMENT 3: Bit rates of 3fc/4, fc, 3fc/2 and 2fc from PCD to PICC

Clause 9

Add the following below Figure 24:

"For bit rates of 3fc/4, fc, 3fc/2 and 2fc see Annex D."

iTeh STANDARD PREVIEW (standards.iteh.ai)

After Annex C

Add the following Annex D: ISO/IEC 14443-4:2008/Amd 3:2013

https://standards.iteh.ai/catalog/standards/sist/7938916b-de72-4b7e-a70a-00a3590c9f8b/iso-iec-14443-4-2008-amd-3-2013

Annex D (normative)

Bit rates of 3fc/4, fc, 3fc/2 and 2fc from PCD to PICC

D.1 Function tags identifier definition

The information field shall contain tags and values as defined in Table D.1.

Table D.1 — Function tags identifier definition

Tag (Hex)	Description	Length (Hex)	Value		
'A1'	Bit rates Request	'0'			_
'A2'	Bit rates Indication		Tag (Hex)	Length (Hex)	Value
		iTe	'80' h ST	'02' 'AND	supported bit rates from PCD to PICC Ast byte is specified in Figure 23 2 nd byte is specified in Figure D.1
		https://stand	0003500	0.601 ₆ /ico ico	supported bit rates from PICC to PCD 131st byte is specified in Figure 23 142nd byte is RFU 16b-de72-4b7e-a70a- 14443-4-2008-amd-3-2013
			'82'	01	supported framing options PICC to PCD (see Figure 24) ^a
'A3'	Bit rates Activation	L	Tag (Hex)	Length (Hex)	Value
			'83'	'02'	selected bit rate from PCD to PICC ^b 1 st byte is specified in Figure 23 2 nd byte is specified in Figure D.1
			'84'	'02'	selected bit rate from PICC to PCD ^b 1 st byte is specified in Figure 23 2 nd byte is RFU
			'85'	'01'	selected framing options PICC to PCD (see Figure 24) ^{a,c}
'A4'	Bit rates Acknowledgement	'0'			_

a shall be omitted for Type A PICCs

When the PCD sets b1 (start bit and stop bit suppression):

b The PCD shall set only one bit. The PCD shall not activate simultaneously a bit rate higher than fc/16 for PCD to PICC communication and a bit rate of fc/128 for PICC to PCD communication in Type A.

^c The PCD shall not set both b1 (start bit and stop bit suppression) and b2 (SOF and EOF suppression).

[—] The PICC shall use a SOF low time of 10 etu and a SOF high time of 2 etu.

[—] The PICC shall use an EOF low time of 10 etu.

The PICC shall apply no character separation.

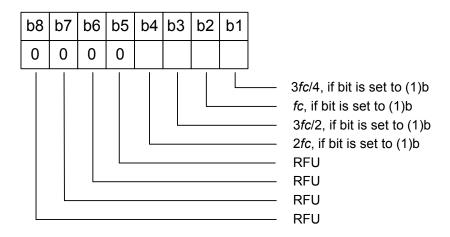


Figure D.1 —Coding of bit rates of 3fc/4, fc, 3fc/2 and 2fc from PCD to PICC

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