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Identification cards — Test methods — Part 6: Proximity cards

AMENDMENT 11

Exchange of additional parameters

Cartes d'identification — Méthodes d'essai — Partie 6: Cartes de proximité

AMENDEMENT 11

Echange de paramètres additionnels

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Amendment 11 to ISO/IEC 10373-6:2011 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

Identification cards — Test methods — Part 6: Proximity cards

AMENDMENT 11:
Exchange of additional parameters

EDITORS NOTE: The Scenario numbering of ISO/IEC FDIS 10373-6:2010 is not changed therefore added Scenarios start with Scenario number 66.

Page 91 of ISO/IEC 10373-6:2011

Add note after Table G.7:

"

-

NOTE The block number may be 0 or 1 dependent on block numbering rules defined in ISO/IEC 14443-4:2008, 7.5.3.

"

-

Page 116 of ISO/IEC 10373-6:2011

Add note after Table G.38:

"

-

NOTE The block number may be 0 or 1 dependent on block numbering rules defined in ISO/IEC 14443-4:2008, 7.5.3.

"

-

Page 116, Table G.39 of ISO/IEC 10373-6:2011

Add table footnote "e" to REQB and WUPB in Transition column of first and second row in Table G.39.

Add table footnote "f" to REQB(Unmatched AFI) and WUPB(Unmatched AFI) in Transition column of tenth and eleventh row in Table G.39:

Add table footnotes "e" and "f" in last row in Table G.39:

"

-

e All matched AFIs as defined by the PICC manufacturer shall be tested.

f The unmatched AFI used in this test shall not be an RFU value. If the PICC accepts all AFIs this test is not applicable.

"

-

Page 118, Table G.41 of ISO/IEC 10373-6:2011

Add table footnote "e" to REQB and WUPB in Transition column of first and second row in Table G.41.

Add table footnote "f" to REQB(Unmatched AFI) and WUPB(Unmatched AFI) in Transition column of twelfth and thirteenth row in Table G.41.

Add table footnotes "e" and "f" in last row in Table G.41:

"

e All matched AFIs as defined by the PICC manufacturer shall be tested.

f The unmatched AFI used in this test shall not be an RFU value. If the PICC accepts all AFIs this test is not applicable.

"

Page 119, Table G.43 of ISO/IEC 10373-6:2011

Add table footnote "e" to REQB and WUPB in Transition column of first and second row in Table G.43.

Add table footnote "f" to REQB(Unmatched AFI) and WUPB(Unmatched AFI) in Transition column of fourteenth and fifteenth row in Table G.43.

Add table footnotes "e" and "f" in last row in Table G.43:

"

e All matched AFIs as defined by the PICC manufacturer shall be tested.

f The unmatched AFI used in this test shall not be an RFU value. If the PICC accepts all AFIs this test is not applicable.

"

Page 121, Table G.45 of ISO/IEC 10373-6:2011

Add table footnote "d" to REQB and WUPB in Transition column of first and second row in Table G.45.

Add table footnote "e" to REQB(Unmatched AFI) and WUPB(Unmatched AFI) in Transition column of ninth and tenth row in Table G.45.

Add table footnotes "d" and "e" in last row in Table G.45:

"

d All matched AFIs as defined by the PICC manufacturer shall be tested.

e The unmatched AFI used in this test shall not be an RFU value. If the PICC accepts all AFIs this test is not applicable.

"

Page 123, Table G.47 of ISO/IEC 10373-6:2011

Add table footnote "b" to REQB and WUPB in Transition column of first and second row in Table G.47.

Add table footnote "c" to REQB(Unmatched AFI) and WUPB(Unmatched AFI) in Transition column of tenth and eleventh row in Table G.47.

Add table footnotes "b" and "c" in last row in Table G.47:

"
-

^b All matched AFIs as defined by the PICC manufacturer shall be tested.

^c The unmatched AFI used in this test shall not be an RFU value. If the PICC accepts all AFIs this test is not applicable.

"
-

Page 141 of ISO/IEC ~~FDIS~~ 10373-6:2010/2011,

Add the following new Scenario after Scenario G.62:

"

Scenario G.66: CID on S(PARAMETERS)-block

Step	PICC-test-apparatus	PICC
1	S(PARAMETERS, CID = cid _{cmd}) →	Response 1: S(PARAMETERS, CID = cid _{cmd}) Response 2: Mute ^a
	←	
^a	Response 1 or response 2 according to Table G.55 or Table G.56.	

"

Page 143 of ISO/IEC ~~FDIS~~ 10373-6:2010/2011,

Add the following new clauses at the end of G.5.5.3:

"

G.5.6 PICC reaction on S(PARAMETERS) blocks

G.5.6.1 Scope

This test is to determine the behavior of the PICC according to ISO/IEC 14443-4:2008/Amd.1, 7.5.1. This test uses implementations of the protocol Scenarios of ISO/IEC 14443-4:2008/Amd.1 Annex B.2.6.

G.5.6.2 Procedure

Perform the following steps for each of Scenario G.67 through G.70 listed in this subclause:

- a) Activate the PICC as described in G.5.1.1, use CID = 0 and FSDI = 0.
- a) For each step in the Scenario do:
 - 1) Send the command as described in the PICC-test-apparatus column.
 - 2) Check that the PICC response matches the one of the PICC column.
- b) End for.

Scenario G.67: Exchange of additional parameters

Step	PICC-test-apparatus		PICC
1	I(0) ₀ (TEST_COMMAND1(1))	→	
		←	I(0) ₀ (TEST_RESPONSE1(1))
2	S(PARAMETERS)	→	
		←	S(PARAMETERS)
3	I(0) ₁ (TEST_COMMAND1(1))	→	
		←	I(0) ₁ (TEST_RESPONSE1(1))

Scenario G.68: Exchange of additional parameters

Step	PICC-test-apparatus		PICC
1	S(PARAMETERS)	→	
		←	S(PARAMETERS)
2	I(0) ₀ (TEST_COMMAND1(1))	→	
		←	I(0) ₀ (TEST_RESPONSE1(1))

Scenario G.69: Exchange of additional parameters

Step	PICC-test-apparatus		PICC
1	S(PARAMETERS)	→	
		←	S(PARAMETERS)
2	S(PARAMETERS)	→	
		←	S(PARAMETERS)
3	I(0) ₀ (TEST_COMMAND1(1))	→	
		←	I(0) ₀ (TEST_RESPONSE1(1))

Scenario G.70: Exchange of additional parameters

Step	PICC-test-apparatus		PICC
1	S(PARAMETERS, ~CRC)	→	
		←	Mute
2	S(PARAMETERS)	→	
		←	S(PARAMETERS)
3	I(0) _o (TEST_COMMAND1(1))	→	
		←	I(0) _o (TEST_RESPONSE1(1))

G.5.6.3 Test report

Fill the appropriate rows in Table G.63 according to Table G.59.

Table G.59 — Result criteria for exchange of additional parameters

Explanation	Test result
Only when the PICC responded as indicated in the procedure	PASS
Any other case	FAIL

"

[Page 144 of ISO/IEC 10373-6:2011.](#)

[Remove Line](#) No [10 of Table G.60](#) referring to parameter TR2

Page 146 of ISO/IEC ~~FDIS-10373-6:2010~~2011,

Insert new Scenarios [G.66](#) to [G.70](#) in Table G.63 as follows:

"

Test method from ISO/IEC 10373-6		Scenario numbers	Test result
Clause	Parameter	ISO/IEC 10373-6	PASS or FAIL or N/A
G.5.4	PICC reaction on CID	Scenario G.58	
		Scenario G.59	
		Scenario G.60	
		Scenario G.61	
		Scenario G.62	
		Scenario G.66	
G.5.6	PICC reaction on S(PARAMETERS) blocks	Scenario G.67	
		Scenario G.68	
		Scenario G.69	
		Scenario G.70	

"

Page 181 of ISO/IEC ~~FDIS~~ 10373-6:20102011,

Add the following Note in H.4.3.2.12 after Step h)

"

NOTE Within this scenario the new rule 8 is tested only for S(DESELECT) blocks.

"

Page 183 of ISO/IEC ~~FDIS~~ 10373-6:20102011,

Replace H.5.4 with

"

S-block shall have an INF field of one byte only when it is a WTX block, an INF field of n byte(s) (n ≥ 0) when it is a PARAMETERS block, and no INF field otherwise (see ISO/IEC 14443-4:2008, 7.1.1.1 and ISO/IEC 14443-4:2008/Amd.1).

"