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Telecommunications and information exchange between systems — Near Field Communication Interface and Protocol 1 (NFCIP-1) — Protocol test methods

Télécommunications et échange d'information entre systèmes — Interface et protocole 1 de communication en champ proche (NFCIP-1) — Méthodes d'essai du protocole

Reference number
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Contents

Page

Foreword ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Symbols and abbreviated terms **2**

5 Notational conventions **4**
5.1 Representation of numbers 4
5.2 Names 4
5.3 Test report 4

6 Conformance **4**

7 Apparatus for testing **4**
7.1 General 4
7.2 Generating the I/O character timing in reception mode 4
7.3 Measuring and monitoring the RF I/O protocol 4
7.4 Test scenario and report 5
7.5 RFU bits 6
7.6 General rules 6

8 Target test methods **6**
8.1 General 6
8.2 Apparatus for testing the Target (Target-test-apparatus) 6
8.3 List of protocol test methods related to ISO/IEC 18092 6
8.4 Activation in Passive communication mode at $f_c/128$ 7
8.4.1 SDD for transport protocol activation 7
8.5 Activation in Passive communication mode at $f_c/64$ and $f_c/32$ 8
8.5.1 Activation time 8
8.5.2 Frame format 8
8.5.3 SDD timing 9
8.5.4 SDD for transport protocol activation 9
8.6 Activation in Active communication mode 10
8.6.1 RFCA 10
8.7 Logical operation of the Target Transport Protocol 11
8.7.1 Handling of ATR_REQ 11
8.7.2 Handling of PSL_REQ 12
8.7.3 Handling of DEP_REQ Information PDUs 13
8.7.4 Handling of DEP_REQ Information PDUs with chaining Initiator to Target and Target to Initiator 15
8.7.5 Handling of DEP_REQ supervisory PDUs with timeout bit set to ONE 17
8.7.6 Handling of DEP_REQ supervisory PDUs with timeout bit set to ZERO 19
8.7.7 Handling of DSL_REQ 20
8.7.8 Handling of RLS_REQ 21
8.7.9 Handling of WUP_REQ (Active communication mode only) 22

9 Initiator test methods **23**
9.1 Apparatus for testing the Initiator (Initiator-test-apparatus) 23
9.1.1 Initiator-test-apparatus concept 23
9.1.2 Protocol activation procedure for Passive communication mode at $f_c/128$ 24
9.1.3 Protocol activation procedures for Passive communication mode at $f_c/64$ and $f_c/32$ 24
9.1.4 Protocol activation procedures for Active communication mode 24
9.2 List of protocol test methods for Initiators 24
9.3 Activation in Passive communication mode at $f_c/128$ 26
9.3.1 Initial RFCA 26

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9.3.2 SDD for transport protocol activation 26
9.4 Activation in Passive communication mode at $f_c/64$ and $f_c/32$ 27
9.4.1 Initial RFCA 27
9.4.2 Frame format 27
9.4.3 SDD for transport protocol activation 28
9.5 Activation in Active communication mode 28
9.5.1 Initial RFCA 28
9.5.2 Response RFCA with time jitter n=0 29
9.6 Logical operation of the Transport Protocol 29
9.6.1 Handling of ATR_RES 29
9.6.2 Handling of PSL_RES 30
9.6.3 Handling of DEP_RES Information PDUs 31
9.6.4 Handling of DEP_RES Information PDUs with chaining Initiator to Target and Target to Initiator 32
9.6.5 Handling of DEP_RES supervisory PDUs with timeout bit set to ONE 35
9.6.6 Handling of DEP_RES supervisory PDUs with timeout bit set to ZERO 36
9.6.7 Handling of DSL_RES 37
9.6.8 Handling of RLS_RES 38
9.6.9 Handling of WUP_RES (Active communication mode only) 39
Annex A (normative) **Test report template for Target tests** **41**
Annex B (normative) **Test report template for Initiator tests** **45**

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Foreword

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This second edition cancels and replaces the first edition (ISO/IEC 23917:2005), which has been technically revised.

The main changes are as follows:

— alignment with the latest edition of ISO/IEC 18092 (the base standard);

— improvement on descriptions of test procedures;

— correction of test scenarios.

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Telecommunications and information exchange between systems — Near Field Communication Interface and Protocol 1 (NFCIP-1) — Protocol test methods

1 Scope

This document specifies protocol test methods for Near Field Communication Interface and Protocol 1 (NFCIP-1), as defined in ISO/IEC 18092 (the base standard).

The radio frequency (RF) test methods for NFCIP-1 (also defined in ISO/IEC 18092) are specified in ISO/IEC 22536.

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 10373-6, *Cards and security devices for personal identification — Test methods — Part 6: Contactless proximity objects*

ISO/IEC 18092:2023, *Telecommunications and information exchange between systems — Near Field Communication Interface and Protocol (NFCIP-1)*

ISO/IEC 22536, *Information technology — Telecommunications and information exchange between systems — Near Field Communication Interface and Protocol (NFCIP-1) — RF interface test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 18092 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
activation in active communication mode
flow to activate the device under test (DUT) in *active communication mode* (3.3), which includes initialisation and protocol activation

3.2
activation in passive communication mode
flow to activate the device under test (DUT) in *passive communication mode* (3.5), which includes initialisation and protocol activation

3.3
active communication mode
mode in which both the Initiator and the Target use their own radio frequency (RF) field to enable the communication

[SOURCE: ISO/IEC 18092:2023, 3.1]

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