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Information technology — Telecommunications and information exchange between systems — NFCIP-1 — Protocol Test Methods

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — NFCIP-1 — Méthodes d'essai du
protocole*

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Contents

Page

Foreword.....	v
Introduction	vi
1 Scope	1
2 Conformance	1
3 Normative references	1
4 Notational conventions	1
4.1 Representation of numbers	1
4.2 Names	1
4.3 Test report	2
5 Terms and definitions	2
5.1 Activation in Active communication Mode	2
5.2 Activation in Passive communication Mode	2
5.3 Active communication Mode	2
5.4 Operating volume	2
5.5 Passive communication Mode	2
5.6 Single Device Detection (SDD)	2
5.7 Scenario	2
5.8 Test commands	2
6 Acronyms and abbreviations	3
7 General description	5
7.1 Apparatus for Testing	5
7.1.1 Generating the I/O character timing in reception mode	5
7.1.2 Measuring and monitoring the RF I/O protocol	5
7.1.3 Test scenario and report	5
7.1.4 RFU bits	5
7.1.5 General rules	5
8 Target test methods	5
8.1 Apparatus for testing the Target (Target-test-apparatus)	5
8.2 List of protocol test methods related to ISO/IEC 18092	6
8.3 Activation in Passive communication Mode at 212 and 424 kbps	7
8.3.1 Activation time	7
8.3.2 Frame format	8
8.3.3 SDD at 212 and 424 kbps	8
8.4 Activation in Active communication Mode	9
8.4.1 RF Collision Avoidance	9
8.5 Logical operation of the Target Transport Protocol	10
8.5.1 Handling of ATR_REQ	10
8.5.2 Handling of PSL_REQ	11
8.5.3 Handling of DEP_REQ Information PDUs	13
8.5.4 Handling of DEP_REQ Information PDUs with the "more information" bit set to ONE	14
8.5.5 Handling of DEP_REQ supervisory PDU's with timeout bit set to ONE	19
8.5.6 Handling of DEP_REQ supervisory PDU's with timeout bit set to ZERO	20
8.5.7 Handling of DSL_REQ	21
8.5.8 Handling of RLS_REQ	22
8.5.9 Handling of WUP_REQ (Active communication Mode Only)	24
9 Initiator test methods	26
9.1 Apparatus for testing the Initiator (Initiator-test-apparatus)	26
9.1.1 Initiator test apparatus concept	26

9.1.2	Protocol activation procedure for Passive communication Mode at 106 kbps	26
9.1.3	Protocol activation procedures for Passive communication Mode at 212 and 424 kbps.....	27
9.1.4	Protocol activation procedures for Active communication Mode.....	27
9.2	List of protocol test methods for Initiators	27
9.3	Activation in Passive communication Mode at 212 and 424 kbps	28
9.3.1	Frame format	28
9.3.2	SDD at 212 and 424 kbps	28
9.4	Activation in Active communication Mode	29
9.4.1	Initial RF Collision Avoidance	29
9.4.2	Response RF Collision Avoidance with time jitter n=0	29
9.5	Logical operation of the Transport Protocol	30
9.5.1	Handling of ATR_RES	30
9.5.2	Handling of PSL_RES.....	31
9.5.3	Handling of DEP_RES Information PDUs.....	32
9.5.4	Handling of DEP_RES Information PDU's with more information bit set to ONE.....	34
9.5.5	Handling of DEP_RES supervisory PDU's with timeout bit set to ONE.....	37
9.5.6	Handling of DEP_RES supervisory PDUs with timeout bit set to ZERO.....	39
9.5.7	Handling of DSL_RES	40
9.5.8	Handling of RLS_RES	41
Annex A	(normative) Test report template for Target tests	43
Annex B	(normative) Test report template for Initiator tests.....	48

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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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.

ISO/IEC 23917 was prepared by Ecma International (as ECMA-362) and was adopted, under a special “fast-track procedure”, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

Introduction

In 2002, Ecma International formed Task Group 19 of Technical Committee 32 to specify Near Field Communication (NFC) signal interfaces and protocols. The NFC devices are wireless closely coupled devices communicating at 13,56 MHz.

The General Assembly of December 2002 adopted Near Field Communication Interface and Protocol-1 (NFCIP-1) as Standard ECMA-340 (ISO/IEC 18092).

This International Standard specifies protocol tests for ECMA-340 (ISO/IEC 18092) and complements ECMA-356 (ISO/IEC 22536), which specifies the RF interface tests for ECMA-340 (ISO/IEC 18092).

Information technology — Telecommunications and information exchange between systems — NFCIP-1 — Protocol Test Methods

1 Scope

This International Standard specifies protocol test methods for ISO/IEC 18092 in addition to those specified in ISO/IEC 22536.

2 Conformance

In addition to conforming to ISO/IEC 22536, implementations of ISO/IEC 18092 shall pass all normative tests and requirements specified herein; test results shall be recorded using Annex A and Annex B of this International Standard.

3 Normative references

The following referenced documents are indispensable for the application 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 10373-6:2001, *Identification cards — Test methods — Part 6: Proximity cards*

ISO/IEC 18092:2004, *Information technology — Telecommunications and information exchange between systems — Near Field Communication — Interface and Protocol (NFCIP-1)*

ISO/IEC 22536:2005, *Information technology — Telecommunications and information exchange between systems — NFCIP-1 - RF interface test methods*