ISO/IEC TS 24192-2:2021 (E)

Cards and security devices for personal identification — Communication between contactless readers and fare media used in public transport — Part 2: Test plan for ISO/IEC 14443 (all parts)

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Symbols and abbreviated terms

5 Description of the test environment

5.1 Test bench
5.2 Tolerances applicable to ambient-environment tests
5.3 Test conditions for PCD
5.4 Test conditions for PICC
5.5 Positional tolerance
5.6 Admissible setup tolerances

6 PCD – Test plan

6.1 PCD conformance to ISO/IEC 14443 (all parts)
6.1.1 Tests defined in ISO/IEC 10373-6
6.1.2 RFU bits and values reception test
6.1.2.1 Purpose
6.1.2.2 Test procedures
6.1.2.2.1 Test procedure 1 (ATQA)
6.1.2.2.2 Test procedure 2 (FSCI)
6.1.2.2.3 Test procedure 3 (SFGI, Type A)
6.1.2.2.4 Test procedure 4 (Maximum Frame Size Code in ATQB)
6.1.2.2.5 Test procedure 5 (SFGI, Type B)
6.1.2.2.6 Test procedure 6 (Protocol_Type, Type B)
6.1.2.2.7 Test procedure 7 (WTXM)
6.1.2.2.8 Test procedure 8 (FWI)
6.1.2.2.9 Test procedure 9 (Bit_Rate_capability)
6.1.2.3 Test report
6.2 PCD conformance to ISO/IEC TS 24192-1
6.2.1 AFI value sent by the PCD
6.2.1.1 Purpose
6.2.1.2 Test procedure
6.2.1.3 Test report
6.2.2 PCD Type A time-to-detection
6.2.2.1 Purpose
6.2.2.2 Test procedure
6.2.2.3 Test report
6.2.3 PCD Type B time-to-detection
6.2.3.1 Purpose
6.2.3.2 Test procedure
6.2.3.3 Test report
6.2.4 ATQA sent after modulated field
6.2.4.1 Purpose
6.2.4.2 Procedure

6.2.4.3 Test report
6.2.5 ATQB sent after modulated field
6.2.5.1 Purpose
6.2.5.2 Procedure
6.2.5.3 Test report
6.2.6 Non-ISO/IEC 14443-4 protocol management by the PCD
6.2.6.1 Purpose
6.2.6.2 Test procedure
6.2.6.3 Test report

7 PICC – Test plan

7.1 PICC conformance to ISO/IEC 14443 (all parts)
7.1.1 Tests defined in ISO/IEC 10373-6
7.1.2 Unexpected or RFU bits and values reception test
7.1.2.1 Purpose
7.1.2.2 Test procedures
7.1.2.2.1 Test procedures for PICC Type A
7.1.2.2.1.1 Test procedure 1 (REQA)
7.1.2.2.1.2 Test procedure 2 (RATS)
7.1.2.2.1.3 Test procedure 3 (PPS0)
7.1.2.2.1.4 Test procedure 4 (PPS1)
7.1.2.2.1.5 Test procedure 5 (CID)
7.1.2.2.2 Test procedures for PICC Type B
7.1.2.2.2.1 Test procedure 1 (REQB)
7.1.2.2.2.2 Test procedure 2 (ATTRIB Param 1)
7.1.2.2.2.3 Test procedure 3 (ATTRIB Param 2)
7.1.2.2.2.4 Test procedure 4 (ATTRIB Param 3)
7.1.2.2.2.5 Test procedure 5 (ATTRIB Param 4)
7.1.2.2.2.6 Test procedure 6 (CID)
7.1.2.3 Test report
7.2 PICC conformance to ISO/IEC TS 24192-1
7.2.1 Field ramp-ups and shut-offs
7.2.1.1 Purpose
7.2.1.2 Test procedure
7.2.1.3 Test report

Annexe A (informative) Test report templates

Page count: 23