

DIN CEN/TS 16794-1:2017-09 (E)

Public transport - Communication between contactless readers and fare media - Part 1: Implementation requirements for ISO/IEC 14443; English version CEN/TS 16794-1:2017

Contents	Page
European foreword.....	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions.....	4
4 Symbols and abbreviations.....	6
5 Conformance.....	6
6 Interoperability of PT devices and NFC mobile devices.....	6
6.1 Description of the “concept for interoperability”.....	6
6.2 References for implementation and test of NFC mobile devices.....	7
6.3 Limitations.....	8
7 Requirements applicable to PT readers.....	8
7.1 General.....	8
7.2 Categories of PT reader.....	8
7.3 Normative requirements applicable to PT readers.....	9
7.4 Specific requirements applicable to PT readers.....	9
7.5 Requirements on polling and recognizing contactless objects.....	10
7.6 Performance requirements (informative).....	11
8 Requirements applicable to PT objects.....	11
8.1 General.....	11
8.2 Normative requirements applicable to PT objects.....	11
8.3 Specific requirements applicable to PT objects.....	12
8.4 Performance requirements (informative).....	12
9 Test boundaries and test conditions for PT readers and PT objects.....	12
9.1 Implementation characteristics.....	12
9.1.1 General.....	12
9.1.2 ICS for PT readers - PCD.....	12
9.1.3 ICS for PT objects - PICC.....	15
9.2 Test conditions.....	17
9.2.1 General.....	17
9.2.2 Temperature.....	17
9.2.3 Test positions for PT readers.....	17
9.2.4 Test positions for PT object.....	31
9.2.5 Test mode for PT readers.....	35
9.2.6 Test application for PT object.....	35
Annex A (informative) Examples of polling sequences and scenarios.....	36
A.1 Examples of polling sequences.....	36
A.2 Examples of polling scenarios.....	37
Annex B (informative) Loopback interface for PT reader testing.....	38
Bibliography.....	39