

# DIN CEN/TS 16794-2:2019-12 (E)

## Public transport - Communication between contactless readers and fare media - Part 2: Test plan for ISO/IEC 14443; English version CEN/TS 16794-2:2019

---

<b>Contents</b>	<b>Page</b>
European foreword.....	3
<b>1 Scope.....</b>	<b>4</b>
<b>2 Normative references.....</b>	<b>4</b>
<b>3 Terms and definitions.....</b>	<b>5</b>
<b>4 Symbols and abbreviated terms.....</b>	<b>5</b>
<b>5 Description of the test environment.....</b>	<b>6</b>
<b>5.1 Test bench.....</b>	<b>6</b>
<b>5.2 Tolerances applicable to ambient-environment tests.....</b>	<b>6</b>
<b>5.3 Test conditions for PCD.....</b>	<b>6</b>
<b>5.4 Test conditions for PICC.....</b>	<b>6</b>
<b>5.5 Positional tolerance.....</b>	<b>6</b>
<b>5.6 Admissible tolerances on the measurements.....</b>	<b>6</b>
<b>6 PCD - Test plan.....</b>	<b>7</b>
<b>6.1 PCD conformance to ISO/IEC 14443 series.....</b>	<b>7</b>
<b>6.2 PCD conformance to CEN/TS 16794-1.....</b>	<b>7</b>
<b>6.2.1 TC_PCD_D_TADT: PCD Type A detection time.....</b>	<b>7</b>
<b>6.2.2 TC_PCD_D_TBBDT: PCD Type B detection time.....</b>	<b>8</b>
<b>6.2.3 TC_PCD_D_AFI: AFI value sent by the PCD.....</b>	<b>9</b>
<b>6.2.4 TC_PCD_D_RFU: Recommendations on RFU bits and values reception test.....</b>	<b>9</b>
<b>6.2.5 TC_PCD_D_PRO: Proprietary protocols management by the PCD.....</b>	<b>11</b>
<b>6.2.6 TC_PCD_D_TAMF: ATQA sent after modulated field.....</b>	<b>12</b>
<b>6.2.7 TC_PCD_D_TBMF: ATQB sent after modulated field.....</b>	<b>12</b>
<b>6.3 Dual conformance of PCD to the CEN/TS 16794 series and EMV Contactless Interface Specification.....</b>	<b>13</b>
<b>7 PICC - Test plan.....</b>	<b>14</b>
<b>7.1 PICC conformance to ISO/IEC 14443 series.....</b>	<b>14</b>
<b>7.2 PICC conformance to CEN/TS 16794-1.....</b>	<b>15</b>
<b>7.2.1 TC_PICC_D_RFU: Recommendations on RFU bits and values reception test.....</b>	<b>15</b>
<b>7.2.2 TC_PICC_D_RAMP: field ramp-ups and shut-offs.....</b>	<b>16</b>
<b>Annex A (informative) Test report templates.....</b>	<b>18</b>
<b>Annex B (informative) Traceability between requirements stated in CEN/TS 16794-1 and test cases stated in this document.....</b>	<b>29</b>