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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ETSI TC SCP Meeting #75**  **Sunnyvale, California, U.S., 13th – 14th October 2016** | | | | | | | | | | | | | | ***SCP(16)000181*** | | | | | | | |
| **ETSI TC SCP TEST Meeting #50**  **Sophia Antipolis, France, 13 – 15 September 2016** | | | | | | | | | | | | | | ***SCPTEST(16)050017r2*** | | | | | | | |
| *TC SCP CR-Form-v1.8.0* | | | | | | | | | | | | | | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | |
| ⌘ | **102 695-2** | | | | **CR** | **040** | | | ⌘ rev |  | | | ⌘ Current version: | | | | | 10.1.0 | | ⌘ | |
|  | | | | | | | | | | | | | | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form, see bottom of this page or look at the pop-up text over the* ⌘ *symbols.* | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | |
| ***Proposed change affects:*** ⌘ | | | | | smart card | | **X** | terminal | | | |  | server / network entity | | | |  | |  | |  |
|  | | | | | | | | | | | | | | | | | | | | | |
| ***Title:*** ⌘ | | Creation of TS 102 695-2 Rel-11 | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | |
| ***Source:*** ⌘ | | SCP TEST | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | |
| ***Work item name:*** ⌘ | | TEI11 | | | | | | | | | |  | | ***Date:*** ⌘ | | 13/09/2016 | | | | | |
|  | |  | | | |  | | | | | | | |  | |  | | | | | |
| ***Category:*** ⌘ | | **B** |  | | | | | | | | | | | ***Release:*** ⌘ | | Rel-11 | | | | | |
|  | | *Use one of the following categories:* ***F*** *(essential correction)* ***A*** *(corresponds to a correction in an earlier release)* ***B*** *(Addition of feature),* ***C*** *(Functional modification of feature)* ***D*** *(Editorial modification)*  Detailed explanations of the above categories can be found in 3GPP TR 21.900. | | | | | | | | | | | | | Use one of the following releases: REL-6 (Release 6) REL-7 (Release 7)  REL-8 (Release 8)  REL-9 (Release 9)  REL-10 (Release 10)  REL-11 (Release 11) | | | | | | |
| TC SCP use of the status "Accepted" for change requests:   * At the TC SCP working group level, the status "Accepted" means that a change request is accepted for presentation to TC SCP Plenary. * At the TC SCP Plenary level, the status "Accepted" means that a change request is accepted for implementation in the targeted specification. | | | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | |
| ***Reason for change:*** ⌘ | | | TS 102 695-2 should be updated to take TS 102 622 Rel-11 into account. | | | | | | | | | | | | | | | | | | |
|  | | | ­­ | | | | | | | | | | | | | | | | | | |
| ***Summary of change:*** ⌘ | | | All UICC requirements from Rel-11 have been added.  Annex A has been updated accordingly (including with CRs which have been accepted but not yet published).  A Rel-11 column has been added to the Applicability Table. | | | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | | | |
| ***Consequences if*** ⌘ ***not accepted:*** | | | TS 102 695-2 cannot be used to test Rel-11 UICCs. | | | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | | | |
| ***New tag value defined within the CR?*** | | |  | If ticked, add document number of related CR to TS 101 220: | | | | | | | | | |  | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | | | |
| ***Clauses affected:*** ⌘ | | | 4.2, 5.4.2.2.2.1, 5.4.2.3.1.1, 5.4.2.4.1, 5.5.1.1.1, 5.6.1.1, 5.7.1.1, 5.7.2.2.1.1, 5.7.2.3.1.1, 5.7.2.3.2.1, 5.7.3.4.1.1, 5.7.3.4.X.1 (new clause), 5.7.4.X (new clause), 5.7.4.Y (new clause), Annex A | | | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | | | |
| ***Other specs*** ⌘ | | |  | Other core specifications ⌘ | | | | | | |  | | | | | | | | | | |
| ***Affected:*** | | |  | Test specifications | | | | | | |  | | | | | | | | | | |
|  | | |  |  | | | | | | |  | | | | | | | | | | |
| ***Other comments:*** ⌘ | | |  | | | | | | | | | | | | | | | | | | |

## 4.2 Applicability table

Table 4.2 specifies the applicability of each test case to the device under test. See clause 3.4 for the format of table 4.2.

Clause 4.5.2 should be referenced for usage of the execution requirements which are referenced in table 4.2 a) and described in table 4.2 c).

Table 4.2 a): Applicability of tests

| e | Test case number and description | Release | Execution requirements | Rel‑7 UICC | Rel‑8 UICC | Rel‑9 UICC | Rel‑10 UICC | Rel-11 UICC | Support |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5.1.2.2 | Test case 1: processing of RFU host identifier | Rel-7 |  | M | M | M | M | M |  |
| 5.1.3.2 | Test case 1: existence of gates | Rel-7 |  | M | M | M | M | M |  |
| 5.1.4.2 | Test case 1: static pipe deletion - administration gate | Rel-7 |  | M | M | M | M | M |  |
| 5.1.4.3 | Test case 2: static pipe deletion - link management gate | Rel-7 |  | C101 | C101 | C101 | C101 | C101 |  |
| 5.1.4.4 | Test case 3: persistence of pipe state | Rel-7 |  | M | M | M | M | M |  |
| 5.1.4.5 | Test case 4: initial pipe state | Rel-7 |  | M | M | M | M | M |  |
| 5.2.2.2 | Test case 1: commands/events on pipe which is not open | Rel-7 |  | M | M | M | M | M |  |
| 5.3.1.2.1.2 | Test case 1: ANY\_SET\_PARAMETER reception - invalid structure | Rel-7 |  | C101 | C101 | C101 | C101 | C101 |  |
| 5.3.1.2.1.3 | Test case 2: ANY\_SET\_PARAMETER reception - RO registry parameter | Rel-7 |  | M | M | M | M | M |  |
| 5.3.1.2.2.2 | Test case 1: ANY\_GET\_PARAMETER reception - invalid structure | Rel-7 |  | M | M | M | M | M |  |
| 5.3.1.2.3.2 | Test case 1: ANY\_OPEN\_PIPE reception | Rel-7 |  | M | M | M | M | M |  |
| 5.3.1.2.4.2 | Test case 1: ANY\_CLOSE\_PIPE reception | Rel-7 |  | M | M | M | M | M |  |
| 5.3.2.2 | Test case 1: response to unknown command | Rel-7 |  | M | M | M | M | M |  |
| 5.3.2.3 | Test case 2: responses received out of order, previous command sent by host controller | Rel-7 |  | M | M | M | M | M |  |
| 5.3.3.2 | Test case 1: reception of unknown events | Rel-7 |  | M | M | M | M | M |  |
| 5.4.1.2 | Test case 1: command and event support for link management gate | Rel-7 |  | C101 | C101 | C101 | C101 | C101 |  |
| 5.4.1.3 | Test case 2: command and event support for host administration gate | Rel-7 |  | M | M | M | M | M |  |
| 5.4.2.1.1.2 | Test case 1: SESSION\_IDENTITY | Rel-7 |  | M | M | M | M | M |  |
| 5.4.2.3.1.2 | Test case 1: registry parameters | Rel-7 |  | M | M | M | M | M |  |
| 5.5.1.1.3 | Test case 2: ADM\_NOTIFY\_PIPE\_CREATED from host controller | Rel-7 |  | M | M | M | M | M |  |
| 5.5.1.1.4 | Test case 3: ADM\_NOTIFY\_PIPE\_CREATED from other host | Rel-7 |  | C102 | C102 | C102 | C102 | C102 |  |
| 5.5.1.1.5 | Test case 4: ADM\_NOTIFY\_PIPE\_CREATED with incorrect destination HID | Rel-7 |  | M | M | M | M | M |  |
| 5.5.1.1.6 | Test case 5: unsuccessful ADM\_NOTIFY\_PIPE\_CREATED | Rel-7 | SR5 | M | M | M | M | M |  |
| 5.5.1.2.3 | Test case 2: receiving ADM\_NOTIFY\_PIPE\_DELETED | Rel-7 |  | M | M | M | M | M |  |
| 5.5.1.3.2 | Test case 1: ADM\_CLEAR\_ALL\_PIPE for data link layer specified in ETSI TS 102 613 [2] | Rel-7 |  | C103 | C103 | C103 | C103 | C103 |  |
| 5.5.1.3.3 | Test case 2: ADM\_CLEAR\_ALL\_PIPE - static pipes, dynamic pipes to host controller | Rel-7 |  | C103 | C103 | C103 | C103 | C103 |  |
| 5.5.1.3.4 | Test case 3: ADM\_CLEAR\_ALL\_PIPE - dynamic pipes to other host | Rel-7 |  | C102 | C102 | C102 | C102 | C102 |  |
| 5.5.4.2 | Test case 1: SESSION\_IDENTITY not changed | Rel-7 |  | C103 | C103 | C103 | C103 | C103 |  |
| 5.5.4.3 | Test case 2: SESSION\_IDENTITY changed | Rel-7 |  | C103 | C103 | C103 | C103 | C103 |  |
| 5.5.4.X | Test case x: activation in low power mode, no session initialization | Rel-10 |  | N/A | N/A | N/A | C103 | C103 |  |
| 5.5.4.Y | Test case y: subsequent activation, no session initialization | Rel-10 |  | N/A | N/A | N/A | C103 | C103 |  |
| 5.5.5.2 | Test case 1: pipe creation from host controller | Rel-7 |  | M | M | M | M | M |  |
| 5.5.5.3 | Test case 2: pipe creation from another host | Rel-7 |  | C102 | C102 | C102 | C102 | C102 |  |
| 5.5.5.4 | Test case 3: processing of EVT\_POST\_DATA | Rel-7 |  | M | M | M | M | M |  |
| 5.6.3.3.4.2.2 | Test case 1: Type A registry values | Rel-7 | SR8 | C104 | C104 | C104 | C104 | C104 |  |
| 5.6.3.3.4.3.2 | Test case 1: Type B registry values | Rel-7 | SR8 | C105 | C105 | C105 | C105 | C105 |  |
| 5.6.3.3.4.5.2 | Test case 1: Type F registry values | Rel-7 | SR8 | C106 | C106 | C106 | C106 | C106 |  |
| 5.6.4.1.2 | Test case 1: full power mode | Rel-7 | SR6 | C107 | C107 | C107 | C107 | C107 |  |
| 5.6.4.1.3 | Test case 2: full power mode, no EVT\_CARD\_ACTIVATED and EVT\_CARD\_DEACTIVATED | Rel-7 | SR6 | C107 | C107 | C107 | C107 | C107 |  |
| 5.6.4.1.4 | Test case 3: sequence from DEACTIVATED state | Rel-7 | SR6 | C107 | C107 | C107 | C107 | C107 |  |
| 5.6.4.1.5 | Test case 4: sequence from DEACTIVATED state, no EVT\_CARD\_ACTIVATED or EVT\_CARD\_DEACTIVATED | Rel-7 | SR6 | C107 | C107 | C107 | C107 | C107 |  |
| 5.6.4.1.6 | Test case 5: low power, power down instead of EVT\_FIELD\_OFF | Rel-7 | SR6 | C107 | C107 | C107 | C107 | C107 |  |
| 5.6.4.1.7 | Test case 6: EVT\_FIELD\_OFF after EVT\_FIELD\_ON / SWP interface activation | Rel-7 | SR6 | C107 | C107 | C107 | C107 | C107 |  |
| 5.6.4.1.8 | Test case 7: EVT\_FIELD\_OFF after EVT\_CARD\_ACTIVATED | Rel-7 | SR6 | C107 | C107 | C107 | C107 | C107 |  |
| 5.6.4.1.9 | Test case 8: EVT\_FIELD\_OFF after EVT\_SEND\_DATA | Rel-7 | SR6 | C107 | C107 | C107 | C107 | C107 |  |
| 5.6.4.1.10 | Test case 9: multiple open card gates | Rel-7 | SR6 | C108 | C108 | C108 | C108 | C108 |  |
| 5.6.4.1.11 | Test case 10: empty C-APDU | Rel-7 | SR6 |  |  | C107 | C107 | C107 |  |
| 5.6.4.2.2 | Test case 1: full power mode | Rel-7 | SR7 | N/A | N/A | N/A | C109 | C109 |  |
| 5.6.4.2.3 | Test case 2: sequence from DEACTIVATED state | Rel-7 | SR7 | N/A | N/A | N/A | C109 | C109 |  |
| 5.6.4.2.4 | Test case 3: low power mode, power down instead EVT\_FIELD\_OFF | Rel-7 | SR7 | N/A | N/A | N/A | C109 | C109 |  |
| 5.6.4.2.5 | Test case 4: EVT\_FIELD\_OFF after EVT\_FIELD\_ON / SWP interface activation | Rel-7 | SR7 | N/A | N/A | N/A | C109 | C109 |  |
| 5.6.4.2.6 | Test case 5: EVT\_FIELD\_OFF during CLT frames exchange | Rel-7 | SR7 | N/A | N/A | N/A | C109 | C109 |  |
| 5.6.4.2.7 | Test case 6: multiple open card gates | Rel-7 | SR7 | N/A | N/A | N/A | C110 | C110 |  |
| 5.6.4.4.2 | Test case 1: RF error indicator | Rel-7 | SR9 |  |  |  | C106 | C106 |  |
| 5.6.4.4.3 | Test case 2: full power mode | Rel-7 | SR9 |  |  |  | C106 | C106 |  |
| 5.6.4.4.4 | Test case 3: sequence from DEACTIVATED state | Rel-7 | SR9 |  |  |  | C106 | C106 |  |
| 5.6.4.4.5 | Test case 4: low power, power down instead of EVT\_FIELD\_OFF | Rel-7 | SR9 |  |  |  | C106 | C106 |  |
| 5.6.4.4.6 | Test case 5: EVT\_FIELD\_OFF after EVT\_FIELD\_ON / SWP interface activation | Rel-7 | SR9 |  |  |  | C106 | C106 |  |
| 5.6.4.4.7 | Test case 6: EVT\_FIELD\_OFF after EVT\_SEND\_DATA | Rel-7 | SR9 |  |  |  | C106 | C106 |  |
| 5.6.4.4.8 | Test case 7: multiple open card gates | Rel-7 | SR9 |  |  |  | C111 | C111 |  |
| 5.6.4.4.9 | Test case 8: EVT\_FIELD\_OFF during CLT frames exchange | Rel-7 | SR9 |  |  |  | C106 | C106 |  |

[…]

##### 5.4.2.2.2 Host link management gate

5.4.2.2.2.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clauses 7.1.2.2 and 4.5.

|  |  |  |
| --- | --- | --- |
| RQ1 | 4.5 | Registry parameters which are in the range of '00' to 'EF' but which are not allocated in ETSI TS 102 622 [1] shall not be present in the registry. |
| RQ2 | 7.1.2.2 | The host shall use a default value for REC\_ERROR of '0000'. |
| RQ3 | 7.1.2.2 | The host shall apply the access condition of RW to REC\_ERROR. |
| RQ4 | 7.1.2.2 | The host shall only accept values of REC\_ERROR of length 2 bytes. |
| NOTE 1: Development of test cases for RQ1 is FFS.  NOTE 2: RQ2, RQ3 and RQ4 are not testable in a standardised manner. See Annex A for test cases which could be used in a non-standardised manner. | | |

5.4.2.2.2.2 Void

#### 5.4.2.3 Identity management gate

##### 5.4.2.3.1 Local registry

5.4.2.3.1.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clauses 7.1.3 and 4.5.

NOTE: This clause covers the conformance requirements contained within ETSI TS 102 622 [1], clause 7.1.3 for the local registry. The requirements for the remote registry are contained in clause 5.4.2.3.2.

|  |  |  |  |
| --- | --- | --- | --- |
| RQ1 | 4.5 |  | Registry parameters which are in the range of '00' to 'EF' but which are not allocated in ETSI TS 102 622 [1] shall not be present in the registry. |
| RQ2 | 7.1.3 |  | The registry of the identity management gate shall be persistent. |
| RQ3 | 7.1.3 |  | This gate shall be provided by all hosts and the host controller. |
| RQY | 7.1.3 | Rel-11 upwards | As destination gate, the identity management gate in the host controller shall accept at least one pipe from each host in its WHITELIST. |
| RQ4 | 7.1.3 |  | If present in the host, the host shall use a value for VERSION\_SW of length 3 bytes. |
| RQ5 | 7.1.3 |  | If present in the host, the host shall apply the access condition of RO to VERSION\_SW. |
| RQ6 | 7.1.3 |  | If present in the host, the host shall use a value for VERSION\_HARD of length 3 bytes. |
| RQ7 | 7.1.3 |  | If present in the host, the host shall apply the access condition of RO to VERSION\_HARD. |
| RQ8 | 7.1.3 |  | If present in the host, the host shall use a value for VENDOR\_NAME of maximum length 20 bytes with UTF8 coding. |
| RQ9 | 7.1.3 |  | If present in the host, the host shall apply the access condition of RO to VENDOR\_NAME. |
| RQ10 | 7.1.3 |  | If present in the host, the host shall use a value for MODEL\_ID of length 1 byte. |
| RQ11 | 7.1.3 |  | If present in the host, the host shall apply the access condition of RO to MODEL\_ID. |
| RQ12 | 7.1.3 |  | If present in the host, the host shall apply the access condition of RO to HCI\_VERSION. |
| RQ13 | 7.1.3 |  | The host shall use a value for GATES\_LIST containing the list of all gates that accept dynamic pipes as an array of gate identifiers. |
| RQ14 | 7.1.3 |  | The host shall apply the access condition of RO to GATES\_LIST. |
| RQ15 | 7.1.3 |  | A host according to the present document shall set the HCI\_VERSION parameter if provided to '01'. |
| RQA | 7.1.3 | Rel-11 upwards | If present in the host, the MAX\_CURRENT parameter shall represent the maximum current that it requires during operation as defined for the different contactless mode of operation, and only for the period defined in TS 102 613 [1]. |
| RQB | 7.1.3 | Rel-11 upwards | If present in the host, the host shall use a value for MAX\_CURRENT of length 1 byte |
| RQC | 7.1.3 | Rel-11 upwards | If present in the host, the host shall apply the access condition of RO to MAX\_CURRENT |
| NOTE 1: Development of test cases for RQ1, RQY, RQA, RQB and RQC is FFS.  NOTE 2: RQ2 is not tested within this clause, as the registry contains no writeable parameters which can be used to test the persistence of the registry.  NOTE 3: RQ3 is also covered in clause 4.3 of ETSI TS 102 622 [1], covered by clause 5.1.3 of the present document. This RQ is therefore not tested within this clause, as it is effectively tested in clause 5.1.3. | | | |

[…]

#### 5.4.2.4 Loop back gate

##### 5.4.2.4.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clauses 7.1.4 and 4.5.

|  |  |  |  |
| --- | --- | --- | --- |
| RQ1 | 4.5 |  | Registry parameters which are in the range of '00' to 'EF' but which are not allocated in ETSI TS 102 622 [1] shall not be present in the registry. |
| RQZ | 7.1.4 | Rel-11 upwards | As destination gate, the loop back gate in the host controller shall accept at least one pipe from each host in its WHITELIST. |
| NOTE: Development of test cases for RQ1 and RQZ is FFS. | | | |

[…]

#### 5.5.1.1 Pipe creation

##### 5.5.1.1.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clauses 8.1.1, 6.1.3.1 and 6.1.3.2.

|  |  |  |  |
| --- | --- | --- | --- |
| RQ1 | 6.1.3.1 |  | When a host sends an ADM\_CREATE\_PIPE command, the command parameters shall be 3 bytes long, and contain valid GIDs and HID. |
| RQ2 | 6.1.3.2 |  | When a host receives an ADM\_NOTIFY\_PIPE\_CREATED command, it shall respond with ANY\_OK with no parameters if it accepts the pipe. |
| RQ3 | 6.1.3.2 |  | If a host receives an ADM\_NOTIFY\_PIPE\_CREATED command containing a destination HID which is not the HID of the host, it shall reject the pipe creation. |
| RQ4 | 8.1.1 |  | If host B does not accept the creation of the pipe, it shall respond to ADM\_NOTIFY\_PIPE\_CREATED with an appropriate response code. |
| RQ5 | 6.1.3.1 |  | When receiving ADM\_NOTIFY\_PIPE\_CREATED, the host shall accept any gate identifier being used as source gate. |
| RQX | 6.1.3.1 | Rel-11 upwards | Only one pipe is allowed to be created for each combination of source host/source gate and destination host/destination gate. |
| NOTE 1: Development of test cases for RQ5 and RQX is FFS.  NOTE 2: RQ1 is not testable in a standardised manner. See Annex A for test cases which could be used in a non-standardised manner. | | | |

[…]

## 5.6 Contactless card emulation

### 5.6.1 Overview

#### 5.6.1.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 9.1.

|  |  |  |
| --- | --- | --- |
| RQ1 |  | For each card RF gate it wants to use, the host has one card application gate. |
| RQ2 |  | For the contactless platform for card emulation mode the pipes to card RF gates shall be created, opened, closed and deleted by the host. |
| RQ3 |  | The host shall not create more than one pipe to each RF gate. |
| RQD | Rel-11 upwards | If MAX\_CURRENT present in the host, the host is allowed to consume a current up to the maximum defined by the host controller in its identity management gate registry between the appearance and the disappearance of the RF unless restricted by the underlying layers e.g. TS 102 613 [2] where the restrictions for low-power mode and power saving mode still apply. |
| NOTE 1: RQ1 and RQ2 are implicitly tested in clause 5.6.4.  NOTE 2: RQ3 is a non-occurrence RQ.  NOTE X: Development of test cases for RQD is FFS. | | |

[…]

## 5.7 Contactless reader

### 5.7.1 Overview

#### 5.7.1.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.1.

|  |  |  |
| --- | --- | --- |
| RQ1 |  | For each reader RF gate it wants to use, the host has one reader application gate. |
| RQ2 |  | The host shall not create more than one pipe to each reader RF gate. |
| RQE | Rel-11 upwards | If MAX\_CURRENT present in the host, the host is allowed to consume a current up to the maximum defined by the host controller in its identity management gate registry between the appearance and the disappearance of the RF unless restricted by the underlying layers e.g. TS 102 613 [2] where the restrictions for low-power mode and power saving mode still apply. |
| NOTE: Development of test cases for above listed RQs is FFS. | | |

### 5.7.2 Reader RF gates

#### 5.7.2.1 Overview

Reference: ETSI TS 102 622 [1], clause 10.2.1.

There are no conformance requirements for the UICC for the referenced clause.

#### 5.7.2.2 Command

##### 5.7.2.2.1 WR\_XCHG\_DATA

5.7.2.2.1.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.2.2.1.

|  |  |  |
| --- | --- | --- |
| RQ1 |  | The host shall have at least one byte in parameter of WR\_XCHG\_DATA. |
| RQ2 |  | In the CTR field of WR\_XCHG\_DATA, bit b8 to b6 shall set to 0. |
| RQ3 |  | In the CTR field of WR\_XCHG\_DATA, if bit b5 is set to one, the host shall use timeout value between 0 and 14. |
| RQ4 |  | On receiving value '00' of RF error indicator, the host shall interpret the received data having no error. |
| RQ5 | Up to Rel-10 | On receiving value '01' of RF error indicator, the host shall interpret the received data having an error. |
| RQK | Rel-11 upwards | On receiving value '01' of RF error indicator, the host shall interpret the received data having a non-recoverable error. |
| NOTE: Development of test cases for above listed RQs is FFS. | | |

#### 5.7.2.3 Registries

##### 5.7.2.3.1 Type A reader RF gate

5.7.2.3.1.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.2.3.1.

|  |  |
| --- | --- |
| RQ1 | The host shall adhere to the access condition of RO for UID. |
| RQ2 | The host shall adhere to the access condition of RO for ATQA. |
| RQ3 | The host shall adhere to the access condition of RO for APPLICATION\_DATA. |
| RQ4 | The host shall adhere to the access condition of RO for SAK. |
| RQ5 | The host shall adhere to the access condition of RO for FWI, SFGT. |
| RQ6 | The host shall only set values of DATARATE\_MAX as specified in ETSI TS 102 622 [1]. |
| RQF | The host shall adhere to the access condition of RO for OPERATING\_STATUS. |
| RQG | The host shall only set values of STATUS\_EVENT\_EN as specified in ETSI TS 102 622 [1]. |
| NOTE 1: Conformance to ISO/IEC 14443-3 [4] and ISO/IEC 14443-4 [5] of the values written by the host is out of scope of the present document.  NOTE 2: Development of test cases for above listed RQs is FFS. | |

##### 5.7.2.3.2 Type B reader RF gate

5.7.2.3.2.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.2.3.2.

|  |  |
| --- | --- |
| RQ1 | The host shall adhere to the access condition of RO for PUPI. |
| RQ2 | The host shall adhere to the access condition of RO for APPICATION\_DATA. |
| RQ3 | The host shall adhere to the access condition of RO for HIGHER\_LAYER\_RESPONSE. |
| RQH | The host shall adhere to the access condition of RO for OPERATING\_STATUS. |
| RQI | The host shall only set values of STATUS\_EVENT\_EN as specified in ETSI TS 102 622 [1]. |
| NOTE 1: Conformance to ISO/IEC 14443-3 [4] and ISO/IEC 14443-4 [5] of the values written by the host is out of scope of the present document.  NOTE 2: Development of test cases for above listed RQs is FFS. | |

[…]

#### 5.7.3.4 Events and subclauses

##### 5.7.3.4.1 Events

5.7.3.4.1.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.3.4.

|  |  |
| --- | --- |
| RQ1 | The reader application gates support the event name EVT\_TARGET\_DISCOVERED. |
| RQJ | The reader application gates support the event name EVT\_READER\_STATUS. |
| NOTE: Development of test cases for above listed RQs is FFS. | |

##### 5.7.3.4.2 EVT\_TARGET\_DISCOVERED

5.7.3.4.2.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.3.4.1.

There are no conformance requirements for the UICC for the referenced clause.

##### 5.7.3.4.X EVT\_READER\_STATUS

5.7.3.4.X.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.3.4.2.

There are no conformance requirements for the UICC for the referenced clause.

### 5.7.4 Procedures

#### 5.7.4.1 Use of contactless reader application

##### 5.7.4.1.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.4.1.

|  |  |
| --- | --- |
| RQ1 | The host shall send the EVT\_READER\_REQUESTED event on a single pipe only. |
| RQ2 | In the context of a valid contactless reader application sequence as specified in ETSI TS 102 622 [1], the host shall only send WR\_XCHG\_DATA commands after receiving an EVT\_TARGET\_DISCOVERED event which indicates that there is a single target in the reader field. |
| RQ3 | In the context of a valid contactless reader application sequence as specified in ETSI TS 102 622 [1], if the host receives an EVT\_TARGET\_DISCOVERED event which indicates that there are several targets in the field, the host shall not send WR\_XCHG\_DATA commands. |
| RQ4 | The host shall send the EVT\_END\_OPERATION event on a single pipe only. |
| RQ5 | In the context of a valid contactless reader application sequence as specified in ETSI TS 102 622 [1], if the host sends an EVT\_END\_OPERATION event, it shall not send further WR\_XCHG\_DATA commands until it has received a further EVT\_TARGET\_DISCOVERED event. |
| RQ6 | In the context of a valid contactless reader application sequence as specified in ETSI TS 102 622 [1], the host shall send the EVT\_END\_OPERATION. |
| NOTE: Development of test cases for above listed RQs is FFS. | |

#### 5.7.4.X Contactless reader not available

##### 5.7.4.X.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.4.2.

There are no conformance requirements for the UICC for the referenced clause.

#### 5.7.4.Y Error management

##### 5.7.4.Y.1 Conformance requirements

Reference: ETSI TS 102 622 [1], clause 10.4.3.

There are no conformance requirements for the UICC for the referenced clause.

[…]

Annex A (informative):  
Core specification version information

Unless otherwise specified, the versions of ETSI TS 102 622 [1] from which conformance requirements have been extracted are as follows:

| Release | Latest version from which conformance requirements have been extracted |
| --- | --- |
| 7 | V7.10.0 + SCP(14)000214 |
| 8 | V8.4.0 + SCP(14)000215 |
| 9 | V9.4.0 + SCP(14)000216 |
| 10 | V10.3.0 + SCP(14)000217 |
| 11 | V11.3.0 + SCP(16)000092 |