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Sub-Part 2: Test Suite Structure and Test Purposes (TSS & TP)

Reference

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Intelligent Transport Systems (ITS).

The present document is part 2, sub-part 2 of a multi-part deliverable covering the test specifications for High Data Rate (HDR) Dedicated Short Range Communication (DSRC).

Full details of the entire series can be found in part 2-1 [2].

Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document contains the Test Suite Structure (TSS) and Test Purposes (TP) to test the Dedicated Short Range Communication (DSRC) High Data Rate (HDR) Application Layer.

The objective of the present document is to provide a basis for conformance tests for DSRC-HDR equipment specified in ETSI ES 200 674-1 [1] giving a high probability of inter-operability between different manufacturer's equipment.

The ISO standard for the methodology of conformance testing ISO/IEC 9646-1 [3] is used as a basis for the test methodology.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at https://docbox.etsi.org/Reference/.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- [1] ETSI ES 200 674-1: "Intelligent Transport Systems (ITS); Road Transport and Traffic Telematics (RTTT); Dedicated Short Range Communications (DSRC); Part 1: Technical characteristics and test methods for High Data Rate (HDR) data transmission equipment operating in the 5,8 GHz Industrial, Scientific and Medical (ISM) band".
- [2] ETSI TS 102 708-2-1: "Intelligent Transport Systems (ITS); RTTT; Test specifications for High Data Rate (HDR) data transmission equipment operating in the 5,8 GHz ISM band; Part 2: Application Layer; Sub-Part 1: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ISO/IEC 9646-1 (1994): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ETSI ES 200 674-1 [1] and ISO/IEC 9646-1 [3] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI ES 200 674-1 [1] and ISO/IEC 9646-1 [3] apply.

4 Test Suite Structure

4.1 Structure

Table 1 shows the application layer test suite structure (TSS) including its groups defined for the conformance testing.

Table 1: Test suite structure for DSRC-HDR application layer

up

Type of system under test (SUT)

Be

Group	Type of system under test (SUT)	Behaviour
Kernel unit	On Board Unit	Valid behaviour
		Invalid behaviour
	Road Side Unit	Valid behaviour
Read access	On Board Unit	Valid behaviour
		Invalid behaviour
	Road Side Unit	Valid behaviour
Write access	On Board Unit	Valid behaviour
		Invalid behaviour
	Road Side Unit	Valid behaviour
Optional functionality	On Board Unit	Valid behaviour
		Invalid behaviour
	Road Side Unit	Valid behaviour
Security	On Board Unit	Valid behaviour
		Invalid behaviour
	Road Side Unit	Valid behaviour
		Invalid behaviour
Integrity constraints	On Board Unit	Invalid behaviour

4.2 Test groups

There are six test groups defined for the application layer of DSRC-HDR as presented in table 1.

4.3 Type of SUT

Two types of systems under test (SUT) are distinguished, i.e. on board units (OBUs) and road side units (RSUs).

4.4 Behaviour test groups

4.4.1 Valid behaviour tests

Valid behaviour tests shall verify that the IUT reacts in conformity with the base standard [1], after receipt or exchange of valid protocol data units (PDUs). "Valid PDU" means that the exchange of messages and the content of the exchanged messages are considered as valid, i.e. compliant with the base standard.

4.4.2 Invalid behaviour tests

Invalid behaviour tests shall verify that the IUT reacts in conformity with the base standard [1], after receipt of a syntactically invalid protocol data unit (PDU).

5 Test purposes

5.1 Introduction

5.1.1 Definition conventions

Test purposes (TPs) are defined following particular rules as presented in table 2.

Table 2: TP definition rules

TP ID	Title:
	Reference:
	PICS Selection:
	TC Reference:
	Initial condition:
Stimulus and Expected behaviour:	

TP ID	The TP ID is a unique identifier. It shall be specified according to the TP naming
	conventions defined in the clause below.
Title	Short description of test purpose objective.
Reference	The reference should contain the references of the subject to be validated by the actual
	TP (specification reference, clause and paragraph).
PICS Selection	Reference to the PICS statement involved for selection of the TP. Contains a Boolean
	expression. Only those ICS statements are shown that are explicitly related to the test.
TC reference	Shows the reference number of the related test case in the ATS.
Initial condition	The condition defines in which initial state the IUT has to be to apply the actual TP.
Stimulus and Expected	Definition of the events the tester performs, and the events that are expected from the
behaviour	IUT to conform to the base specification.

5.1.2 Naming conventions

The identifier of the TP is built according to table 3.

Table 3: TP naming convention

Identifier TP/ <sut>/<layer>/<group>/<x>/<n></n></x></group></layer></sut>		-/ <x>/<n></n></x>	
	<sut> = Type of SUT</sut>	OBU	On Board Unit
	• •	RSU	Road Side Unit
	<layer></layer>	AL	Application Layer
	<group></group>	KU	Kernel Unit
		RA	Read Access
		WA	Write Access
		OF	Optional Functionality
		IC	Integrity Constraints
		SC	Security
	x = Type of testing	BV	Valid Behaviour Test
		BI	Invalid Behaviour Test
	<n> = sequential number</n>	>0	<n> = sequential number</n>

NOTE: All tests specified in the present document are application layer tests. The term <layer> in the TP identifier is used to have a consistent TP reference covering also the tests on the data link layer provided in a separate part of this multi-part deliverable.

5.1.3 Sources of TP definitions

All TPs are specified according to the base standard ETSI ES 200 674-1 [1].

5.1.4 General reference

All references in the test purposes, if not stated differently, are indicating clauses of the base standard ETSI ES 200 674-1 [1].

All references to PICS are indicating tables in ETSI TS 102 708-2-1 [2].

5.1.5 General conditions

For all TPs related to OBUs the following pre-conditions shall apply, if not defined differently for a specific TP:

- The SUT (OBU) shall be ready for communication, i.e. it shall not be in sleep mode and all boot processes shall be finalized.
- The "AP Invocation Identifier" used in the SUT shall be as defined by the applicant.
- "Responding Mode" used in the SUT (RSU) shall be set to "response-slow-speed", if not required differently for a specific TP.
- The SUT (OBU) shall have no active association with the tester (RSU).

For all TPs related to RSUs, the following general conditions shall apply, if not defined differently for a specific TP:

- The SUT (RSU) shall provide means which allow issuing requests for APDUs to be transmitted.
- Repetition of a request message shall be possible only in case a reply was not received within due time.

NOTE: From this it follows that repetitive or periodic request messages are disabled in the SUT.

Additional pre-conditions may apply for specific TPs.

5.1.6 Default PICS selection

For all TPs related to OBUs the following PICS selections shall apply in addition to those specified for a specific TP:

• Tables A.1, A.3, A.5/1, A.5/2, A5/3 and A.5/7 of the PICS [2] shall be implicitly selected for all TPs.

For all TPs related to RSUs the following PICS selections shall apply in addition to those specified for a specific TP:

• Tables B.1, B.3, B.5, B.6/1, B.6/4, B.9/1, B.9/2, B.9/3 and B.9/7 of the PICS [2] shall be implicitly selected for all TPs.

Further PICS selections may apply as specified for a specific TP. These either select options of the base standard [1] or give hints on the major properties to be tested.

5.1.7 Presentation conventions

Concatenation of directives in a single frame shall be indicated with the symbol |.

 $\begin{tabular}{ll} EXAMPLE: & Concatenation of Open-Rq with Close-Rq is presented as \\ & Open-Rq \mid Close-Rq, \\ & with Open-Rq sent first. \\ \end{tabular}$

5.2 Test purposes for on-board units

5.2.1 Kernel Unit

5.2.1.1 Valid behaviour

TP/OBU/AL/KU/BV/01	Verify that the IUT can handle Open-Rq	
	Reference: Clauses 11.5.2, 11.5.3, 11.6.1, 11.6.2, 11.6.3 and 11.6.4	
	PICS Selection: Table A.4/1 AND Table A.4/2 AND Table A.4/3 AND Table A.4/4	
	Initial conditions	
with {		
the IUT being in the "	'initial state"	
}		
	Expected behaviour	
ensure that {		
when {		
the IUT receives a	a valid Open-Rq with new private LinkID and an "AP Invocation Identifier" having a valid value	
as specified by th	as specified by the applicant	
}		
then {		
the IUT issues a r	response with "Result" set to '06'H and "Diagnostic" set to '00'H and with "AP Invocation	
Identifier" having	the same value as received	
}		
}		

```
TP/OBU/AL/KU/BV/02
                          Verify that the IUT can handle Close-Rq
                           Reference: Clauses 11.5.2, 11.5.3, 11.6.1, 11.6.2, 11.6.3 and 11.6.4
                           PICS Selection: Table A.4/1 AND Table A.4/2 AND Table A.4/3 AND Table A.4/4
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq with new private LinkID and a valid "AP Invocation Identifier"
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Close-Rq with LinkID having the same value as in the initial conditions
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H and with "AP Invocation
      Identifier" having the same value as received
      }
```

```
TP/OBU/AL/KU/BV/03 | Verify that the IUT can handle Open-Rq and Close-Rq | Reference: Clauses 11.5.2, 11.5.3, 11.6.1, 11.6.2, 11.6.3 and 11.6.4 | PICS Selection: Table A.4/1 AND Table A.4/2 AND Table A.4/3 AND Table A.4/4 | Initial conditions |

with {
    the IUT being in the "initial state" |
} | Expected behaviour |

ensure that {
    when {
      the IUT receives a valid Open-Rq | Close-Rq with new private LinkID |
      }
      then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H and with "AP Invocation Identifier" having the same value as received |
    }
}
```

```
TP/OBU/AL/KU/BV/04
                         Verify that the IUT can handle Select-TBA-Id-Rq
                         Reference: Clauses 11.5.4, 11.6.1, 11.6.2 and 11.6.5
                         PICS Selection: Table A.4/5 AND Table A.4/6
                          TC reference:
                          Initial condition:
                                                  Initial conditions
with {
    the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with new private LinkID
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open | Select-TBA-Id-Rq | Close-Rq with new private LinkID and with "Responding AP
       Title" set equal to the value of "Called AP Title" as sent in the initial conditions
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
```

5.2.1.2 Invalid behaviour

```
TP/OBU/AL/KU/BI/01
                         Verify that the IUT can manage Select-TBA-Id-Rq with an invalid length
                                       Clauses 11.5.4, 11.6.1, 11.6.2 and 11.6.5
                         Reference:
                         PICS Selection: Table A.4/5 AND Table A.4/6
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a Open | Select-TBA-Id-Rq | Close-Rq with new private LinkID and with "Responding AP Title"
       set equal to the value of "Called AP Title" as sent in the initial conditions, but with an invalid value of "Length"
   then {
       the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
```

```
TP/OBU/AL/KU/BI/02
                         Verify that the IUT supporting the EETS profile can manage Select-TBA-Id-Rq with an invalid
                         value
                                        Clauses 11.5.4, 11.6.1, 11.6.2, 11.6.5 and D.2.2
                         Reference:
                         PICS Selection: Table A.4/5 AND Table A.4/6 AND Table A.2/1
                                                  Initial conditions
with {
    the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with new private LinkID
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open | Select-TBA-Id-Rq | Close-Rq with new private LinkID and with "Responding AP
       Title" set equal to a value different to "Called AP Title" as sent in the initial conditions
   then {
       the IUT does not respond
       }
```

TP/OBU/AL/KU/BI/03	Verify that the IUT not supporting the EETS profile can manage Select-TBA-Id-Rq with an	
	invalid value	
	Reference: Clauses 11.5.4, 11.6.1, 11.6.2 and 11.6.5	
	PICS Selection: Table A.4/5 AND Table A.4/6 AND NOT Table A.2/1	
	Initial conditions	
with {		
the IUT being in the '	"initial state"	
and the IUT having re	eceived a valid Open-Rq Close-Rq with new private LinkID	
	ssued a response with "Result" set to '06'H and "Diagnostic" set to '00'H	
}	·	
Expected behaviour		
ensure that {		
when {		
the IUT receives a valid Open Select-TBA-Id-Rq Close-Rq with new private LinkID and with "Responding AP		
Title" set equal to a value different to "Called AP Title" noted previously		
}		
then {		
the IUT does not i	respond OR the IUT responds with "Result" set to '15'H and "Diagnostic" set to '05'H	
}		
}		

```
TP/OBU/AL/KU/BI/O4 Verify that the IUT handles an invalid application identifier

Reference: Clauses 11.5.2, 11.5.3, 11.6.1, 11.6.2, 11.6.3 and 11.6.4

PICS Selection: Table A.4/1 AND Table A.4/2 AND Table A.4/3 AND Table A.4/4

Initial conditions

with {
    the IUT being in the "initial state"
    }

Expected behaviour

ensure that {
    when {
        the IUT receives a valid Open-Rq with new private LinkID and an invalid "AP Invocation Identifier" (different from valid values specified by the applicant)
    }
    then {
        the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '06'H
    }
}
```

5.2.2 Read access

5.2.2.1 Valid behaviour

with { the IUT being in the "initial } ensure that { repeat with different private Lithe whole Master Core	election: Table A.4/9 AND Table A.4/10 Initial conditions
with { the IUT being in the "initial } ensure that { repeat with different private Li the whole Master Core	election: Table A.4/9 AND Table A.4/10 Initial conditions state" Expected behaviour
with { the IUT being in the "initial } ensure that { repeat with different private Li the whole Master Core	Initial conditions state" Expected behaviour
with { the IUT being in the "initial } ensure that { repeat with different private Li the whole Master Core	Initial conditions state" Expected behaviour
ensure that { repeat with different private Li the whole Master Core	Expected behaviour
ensure that { repeat with different private Li the whole Master Core	Expected behaviour
ensure that { repeat with different private Li the whole Master Core	Expected behaviour
repeat with different private Li	•
repeat with different private Li	nkID and different combinations of "Offset" and "Length" parameters in order to cover
combinations of "Offset" and core } then { the IUT issues a response	pen-Rq Read-Master-Core-Rq Close-Rq with new private LinkID and with valid and "Length" in Read-Master-Core-Rq in order to retrieve a part of or the whole master with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of a specified by the applicant for the selected range

Verify that the IUT can manage Read-Master-Core-Rq with broadcast LinkID
Reference: Clauses 11.5.6, 11.6.2 and 11.6.7
PICS Selection: Table A.4/9 AND Table A.4/10
Initial conditions
he "initial state"
Expected behaviour
•
combinations of "Offset" and "Length" parameters in order to cover the whole Master Core
a valid Read-Master-Core-Rq with broadcast LinkID and with valid combinations of "Offset"
lead-Master-Core-Rq in order to retrieve a part of or the whole master core
·
response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of
re-Rs" as specified by the applicant for the selected range

```
Verify that the IUT can manage Open-Rq | Get-Master-Record-Rq | Close-Rq with no support
TP/OBU/AL/RA/BV/03
                         for security level 1
                        Reference:
                                      Clauses 11.5.7, 11.6.2 and 11.6.8
                                          Table A.4/11 AND Table A.4/12 AND NOT Table A.2/3
                        PICS Selection:
                                                 Initial conditions
with {
   the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Master Record
   when {
      the IUT receives a valid Open-Rq | Get-Master-Record-Rq | Close-Rq with new private LinkID and with valid
      combinations of "Offset" and "Length" in Get-Master-Record-Rq in order to retrieve a part of or the whole master
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of
       "Get-Master-Record-Rs" as specified by the applicant for the selected range
```

```
TP/OBU/AL/RA/BV/04
                          Verify that the IUT can manage Open-Rg | Read-Appl-Core-Rg | Close-Rg with no support
                          for security level 1
                                        Clauses 11.5.8, 11.6.2 and 11.6.9
                          Reference:
                          PICS Selection: Table A.4/13 AND Table A.4/14 AND NOT Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Core
   when {
       the IUT receives a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with valid
      combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole
      application core
      }
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of
       "Read-Application-Core-Rs" as specified by the applicant for the selected range
```

```
TP/OBU/AL/RA/BV/05
                         Verify that the IUT can manage Read-Appl-Core-Rg with broadcast Linkld with no support for
                         security level 1
                                       Clauses 11.5.8, 11.6.2 and 11.6.9
                         Reference:
                                          Table A.4/13 AND Table A.4/14 AND NOT Table A.2/3
                         PICS Selection:
                                                  Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different combinations of "Offset" and "Length" parameters in order to cover the whole Application Core
      the IUT receives a valid Read-Appl-Core-Rq with broadcast LinkID and with valid combinations of "Offset" and
       "Length" in Read-Appl-Core-Rg in order to retrieve a part of or the whole application core
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of
      "Read-Application-Core-Rs" as specified by the applicant for the selected range
```

```
TP/OBU/AL/RA/BV/06 | Verify that the IUT can manage Open-Rq | Read-Appl-Record-Rq | Close-Rq with no support
                        for security level 1
                        Reference:
                                      Clauses 11.5.13, 11.6.2 and 11.6.14
                        PICS Selection: Table A.4/23 AND Table A.4/24 AND NOT Table A.2/3
                                                  Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
   when {
       the IUT receives a valid Open-Rq | Read-Appl-record-Rq | Close-Rq with new private LinkID and with valid
       combinations of "Offset" and "Length" in Read-Appl-Record-Rq in order to retrieve a part of or the whole
       application record
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of
       "Read-Application-Record-Rs" as specified by the applicant for the selected range
       }
```

```
TP/OBU/AL/RA/BV/07
                         Verify that the IUT can manage Read-Appl-Record-Rg with broadcast LinkId with no support
                         for security level 1
                         Reference:
                                       Clauses 11.5.13, 11.6.2 and 11.6.14
                                          Table A.4/23 AND Table A.4/24 AND NOT Table A.2/3
                         PICS Selection:
                                                  Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different combinations of "Offset" and "Length" parameters in order to cover the whole Application
   Record
   when {
      the IUT receives a valid Read-Appl-Record-Rq with broadcast LinkID and with valid combinations of "Offset"
      and "Length" in Read-Appl-Record-Rq in order to retrieve a part of or the whole application record
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of
       "Read-Application-record-Rs" as specified by the applicant for the selected range
```

```
TP/OBU/AL/RA/BV/08
                        |Verify that the IUT can manage Open-Rq | Read-Appl-Record-Rq | Close-Rq with support for
                        the European profile and no support for security level 1
                        Reference:
                                      Clauses 11.5.13, 11.6.2, 11.6.14 and D.2.3
                                          Table A.2/1 AND Table A.4/23 AND Table A.4/24 AND NOT Table A.2/3
                        PICS Selection:
                                                  Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different private LinkID and different valid combinations of "Offset" parameter, and "Length" parameter,
   in order to cover the whole Application Record respecting the limit of Record Length of 8 octets
       the IUT receives a valid Open-Rq | Read-Appl-record-Rq | Close-Rq with new private LinkID and with valid
       combinations of "Offset" and "Length" in Read-Appl-Record-Rg in order to retrieve a part of or the whole
       application record
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of
       "Read-Application-Record-Rs" as specified by the applicant for the selected range
```

```
TP/OBU/AL/RA/BV/09
                         Verify that the IUT can manage Read-Appl-Record-Rq with broadcast LinkId with support for
                         the European profile and no support for security level 1
                         Reference:
                                       Clauses 11.5.13, 11.6.2, 11.6.14 and D.2.3
                                          Table A.2/1 AND Table A.4/23 AND Table A.4/24 AND NOT Table A.2/3
                         PICS Selection:
                                                  Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different valid combinations of "Offset" parameter, and "Length" parameter, in order to cover the whole
   Application Record respecting the limit of Record Length of 8 octets
   when {
      the IUT receives a valid Read-Appl-Record-Rq with broadcast LinkID and with valid combinations of "Offset"
      and "Length" in Read-Appl-Record-Rq in order to retrieve a part of or the whole application record
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of
       "Read-Application-record-Rs" as specified by the applicant for the selected range
```

5.2.2.2 Invalid behaviour

TP/OBU/AL/RA/BI/01	Verify that the IUT can manage reception of Get-Master-Record-Rq outside a session	
	Reference: Clauses 11.5.7, 11.6.2 and 11.6.8	
	PICS Selection: Table A.4/11 AND Table A.4/12	
	Initial conditions	
with {		
the IUT being in th	ne "initial state"	
}		
	Expected behaviour	
ensure that {		
when {		
the IUT receives a valid Get-Master-Record-Rq with broadcast LinkID and with valid combinations of "Offset"		
and "Length" in Get-Master-Record-Rq in order to retrieve a part of or the whole application record		
}		
then {		
the IUT issues a re	esponse with " Result" set to '15'H and "Diagnostic" set to '02'H	
}		
}		

```
TP/OBU/AL/RA/BI/02
                        Verify that the IUT can manage Open-Rq | Read-Appl-Record-Rq | Close-Rq with support for
                        the European profile with wrong values for Displacement and Length and no support for
                        security level 1
                                      Clauses 11.5.13, 11.6.2, 11.6.14 and D.2.3
                        Reference:
                        PICS Selection: Table A.2/1 AND Table A.4/23 AND Table A.4/24 AND NOT Table A.2/3
                                                 Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different private LinkID and different invalid combinations of "Offset" parameter, and "Length"
   parameter, in order to cover the whole Application Record not respecting the limit of Record Length of 8 octets
       the IUT receives a valid Open-Rg | Read-Appl-record-Rg | Close-Rg with new private LinkID and with invalid
      combinations of "Offset" and "Length" in Read-Appl-Record-Rg in order to retrieve a part of or the whole
      application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no read data
```

```
Verify that the IUT can manage Read-Appl-Record-Rq with broadcast LinkId with support for
 TP/OBU/AL/RA/BI/03
                         the European profile with wrong values for Displacement and Length and no support for
                         security level 1
                                       Clauses 11.5.13, 11.6.2, 11.6.14 and D.2.3
                         Reference:
                         PICS Selection: Table A.2/1 AND Table A.4/23 AND Table A.4/24 AND NOT Table A.2/3
                                                  Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different invalid combinations of "Offset" parameter, and "Length" parameter, in order to cover the whole
   Application Record not respecting the limit of Record Length of 8 octets
      the IUT receives a valid Read-Appl-Record-Rq with broadcast LinkID and with valid combinations of "Offset"
      and "Length" in Read-Appl-Record-Rq in order to retrieve a part of or the whole application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no read data
```

5.2.3 Write Access

5.2.3.1 Valid behaviour

```
TP/OBU/AL/WA/BV/01
                         Verify that the IUT can manage Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Close-
                          Rq with no restrictions due to EETS profile and with no support for security level 1
                                        Clauses 11.5.9, 11.6.2, 11.6.10
                         Reference:
                                           Table A.4/15 AND Table A.4/16 AND NOT (Table A.2/1 OR Table A.2/3)
                         PICS Selection:
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Core
with {
      the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with
   valid combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole
   application core
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Note the value of
    "Called AP Title" and the data received
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Close-Rq with new private LinkID
      and with the same values of "Offset" and "Length" as in the previous Read-Appl-Core-Rq in order to write
      different data in the same position as the data previously received
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                  Final Conditions
ensure that {
   when {
      the IUT receives a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with the same
      values of "Offset" and "Length" as used previously and with "Responding AP Title" set equal to the value of
       "Called AP Title" noted previously
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
      are the same as the data sent previously
```

```
TP/OBU/AL/WA/BV/02
                            Verify that the IUT can manage Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Close-
                            Rg with the restrictions due to EETS profile and with no support for security level 1
                                          Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2 n: Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND NOT Table A.2/3
                           Reference:
                           PICS Selection:
                                                   Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Core
with {
       the IUT being in the "initial state"
    and the IUT having received a valid Open-Rg | Read-Appl-Core-Rg | Close-Rg with new private LinkID and with
    "Offset" set to 47 Decimal and "Length" set to 28 Decimal in Read-Appl-Core-Rg in order to retrieve the first
    writable part of the Application Core
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Note the value of
    "Called AP Title" and the data received
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Read-Appl-Core | Close-Rq with
       new private LinkID and with the same values of "Offset" and "Length" as in the previous Read-Appl-Core-Rq
       and with "Responding AP Title" set equal to the value of "Called AP Title" noted previously in order to write data
       to the application core being different to the data previously received and subsequently retrieve data from the
       same memory in the application core
       }
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
       are the same as the data sent previously
```

```
TP/OBU/AL/WA/BV/03
                           Verify that the IUT can manage Write-Appl-Core-Rg | Read-Appl-Core-Rg with no
                           restrictions due to the EETS profile and with no support for security level 1
                           Reference:
                                        Clauses 11.5.9, 11.6.2 and 11.6.10
                           PICS Selection: Table A.4/13 AND Table A.4/14 AND Table A.4/15 AND Table A.4/16
                           AND NOT (Table A.2/1 OR Table A.2/3)
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Core
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with
   valid combinations of "Offset" and "Length" in Read-Appl-Core-Rg.
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Read_Appl-Core-Rq | Close-Rq
      with new private LinkID and with the same values of "Offset" and "Length" as in the initial conditions and with
       "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions in order to write
       different data in the same position as the data previously received, and then to read back that data
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
      are the same as the data sent previously
```

```
Verify that the IUT can manage multiple Write-Appl-Core-Rq in a single frame with no
TP/OBU/AL/WA/BV/04
                                                                                                      restrictions due to the EETS profile and with no support for security level 1
                                                                                                      Reference:
                                                                                                                                                              Clauses 11.5.9, 11.6.2 and 11.6.10
                                                                                                                                                                           Table A.4/15 AND Table A.4/16 AND NOT (Table A.2/1 OR Table A.2/3)
                                                                                                     PICS Selection:
                                                                                                                                                                                                           Initial conditions
with {
               the IUT being in the "initial state"
               and the IUT receives a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with "Offset"
               set to zero and "Length" set to the maximum length D provided by the applicant in order to retrieve the whole
               and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                                                                                                                                                                    Expected behaviour
ensure that {
             when {
                            the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq("Offset"=0, "Length"=A) | Write-Appl-C
                            Appl-Core-Rq("Offset"=A, "Length"=B) | Write-Appl-Core-Rq("Offset"=A+B, "Length"=C) | Read-Appl-Core-Rq("Offset"=A+B, "Length"=C) | Read-Appl-Core-Rq("Offset"=A+B, "Length"=B) | Write-Appl-Core-Rq("Offset"=A+B, "Length"=C) | Read-Appl-Core-Rq("Offset"=A+B, "Length"=C) | Read-Appl-Core-Rq("Offset"=
                            Rq("Offset"=0, "Length"=A+B+C=D) | Close-Rq with new private LinkID and with "Responding AP Title" set to
                            the value of "Called AP Title" sent in the initial conditions
              then {
                            the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
                            are the same as the data sent previously
                            }
```

```
TP/OBU/AL/WA/BV/05 | Verify that the IUT can manage Write-Appl-Core-Conf-Rq with no support for security level 1
                         Reference: Clauses 11.5.10, 11.6.2 and 11.6.11
                         PICS Selection: Table A.4/17 AND Table A.4/18 AND NOT Table A.2/3
                                                  Initial conditions
with {
       the IUT being in the "initial state"
    and the IUT having received a valid Open-Rg | Read-Appl-Core-Rg | Close-Rg with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Core-Rq
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rg | Select-TBA-Id-Rg | Write-Appl-Core-Conf-Rg | Close-Rg with new private
       LinkID and with the same value of "Offset" and "Length" as used in the initial conditions and with "Responding
       AP Title" set to the value of "Called AP Title" as sent in the initial conditions
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                  Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID
       and with the same values of "Offset" and "Length" as used previously and with "Responding AP Title" set to the
       value of "Called AP Title" as sent in the initial conditions
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
       are the same as the data sent previously
```

```
Verify that the IUT can manage Write-Appl-Record-Curr-Rg with no support for security
 TP/OBU/AL/WA/BV/06
                          level 1
                         Reference:
                                        Clauses 11.5.14, 11.6.2 and 11.6.15
                         PICS Selection: Table A.4/25 AND Table A.4/26 AND NOT Table A.2/3
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq with new private
       LinkID and with the same value of "Offset" and "Length" as received in the initial conditions and with
       "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                  Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Read-Appl-Record-Rq | Close-Rq with new private
       LinkID and with the same values of "Offset" and "Length" as used previously and with "Responding AP Title" set
       equal to the value of "Called AP Title" noted previously
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
       are the same as the data sent previously
TP/OBU/AL/WA/BV/07
                         Verify that the IUT can manage Write-Appl-Record-Curr-Rq | Read-Appl-Record-Rq with no
                         support for security level 1
                                      Clauses 11.5.14, 11.6.2 and 11.6.15
                         Reference:
                         PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.4/25 AND Table A.4/26 AND
                         NOT Table A.2/3
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
```

```
Expected behaviour

e that {
en {
the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Read_Appl-Record-Rq |
Close-Rq with new private LinkID and with the same values of "Offset" and "Length" as in the initial conditions
and with "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions
}
n {
the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
```

ensure that { when {

then {

are the same as the data sent previously

```
TP/OBU/AL/WA/BV/08
                         Verify that the IUT can manage Write-Appl-Record-Curr-Conf-Rg with no support for security
                          level 1
                          Reference:
                                        Clauses 11.5.15, 11.6.2 and 11.6.16
                         PICS Selection: Table A.4/27 AND Table A.4/28 AND NOT Table A.2/3
                                                   Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Close-Rq with new
       private LinkID and with the same value of "Offset" and "Length" as used in the initial conditions and with
       "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                   Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Read-Appl-Record-Rq | Close-Rq with new private
       LinkID and with the same values of "Offset" and "Length" as used previously and with "Responding AP Title" set
       equal to the value of "Called AP Title" noted previously
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
       are the same as the data sent previously
TP/OBU/AL/WA/BV/09
                         Verify that the IUT can manage Write-Appl-Record-Curr-Conf-Rg | Read-Appl-Record-Rg with
                          no support for security level 1
                                       Clauses 11.5.15, 11.6.2 and 11.6.16
                          Reference:
                          PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.4/27 AND Table A.4/28 AND
                          NOT Table A.2/3
                                                   Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Read_Appl-Record-
       Rq | Close-Rq with new private LinkID and with the same values of "Offset" and "Length" as in the initial
       conditions and with "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
       are the same as the data sent previously
```

```
Verify that the IUT can manage multiple Write-Appl-Record-Curr-Conf-Rq in a single frame
TP/OBU/AL/WA/BV/10
                         with no support for security level 1
                        Reference:
                                      Clauses 11.5.15, 11.6.2 and 11.6.16
                        PICS Selection:
                                          Table A.4/27 AND Table A.4/28 AND NOT Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
    "Offset" set to zero and "Length" set to the maximum length D provided by the applicant in order to retrieve the
   whole application record
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq("Offset"=0, "Length"=A)
       | Write-Appl-Record-Curr-Conf -Rq("Offset"=A, "Length"=B) | Write-Appl-Record-Curr-Conf-Rq("Offset"=A+B,
       "Length"=C) | Read-Appl-Record-Rg("Offset"=0, "Length"=A+B+C=D) | Close-Rg with new private LinkID and
      with "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
      are the same as the data sent previously.
      }
```

```
TP/OBU/AL/WA/BV/11
                         Verify that the IUT can manage Write-Appl-Record-Next-Rq with no support for European
                         Profile and no support for security level 1
                         Reference: Clauses 11.5.16, 11.6.2 and 11.6.17
                         PICS Selection: Table A.4/29 AND Table A.4/30 AND NOT (Table A.2/1 OR Table A.2/3)
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Rq | Close-Rq with new private
       LinkID and with the same value of "Offset" and "Length" as used in the initial conditions and with "Responding
       AP Title" set to the value of "Called AP Title" sent in the initial conditions and "Data" set to '0'B in order to write
       all-zero data to the next application record, which by this command will become the current record
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                  Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Read-Appl-Record-Rq | Close-Rq with new private
       LinkID and with the same value of "Offset" and "Length" as used previously and with "Responding AP Title" set
       equal to the value of "Called AP Title" used previously in order to retrieve data from the application record
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
       are identical to those sent previously
```

TP/OBU/AL/WA/BV/12 Verify that the IUT can manage Write-Appl-Record-Next-Rg with no support for security level 1 and no support for European profile Reference: Clauses 11.5.16, 11.6.2 and 11.6.17 PICS Selection: Table A.4/29 AND Table A.4/30 AND NOT (Table A.2/3 OR Table A.2/1) Initial conditions repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover the whole Application Record with { the IUT being in the "initial state" and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H **Expected behaviour** ensure that { when { the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Rq | Close-Rq with new private LinkID and with the same value of "Offset" and "Length" as used in the initial conditions and with "Responding AP Title" set to the value of "Called AP Title" sent in the initial conditions and "Data" set to '1'B in order to write all-one data to the next application record, which by this command will become the current record then { the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H **Final Conditions** ensure that { when { the IUT receives a valid Open-Rg | Select-TBA-Id-Rg | Read-Appl-Record-Rg | Close-Rg with new private LinkID and with the same value of "Offset" and "Length" as used previously and with "Responding AP Title" set equal to the value of "Called AP Title" noted previously in order to retrieve data from the application record the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are identical to those sent previously

```
TP/OBU/AL/WA/BV/13
                        Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rg with no support for security
                         level 1 and no support for the European profile
                                       Clauses 11.5.17, 11.6.2 and 11.6.18
                         Reference:
                         PICS Selection: Table A.4/31 AND Table A.4/32 AND NOT (Table A.2/3 OR Table A.2/1)
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
   valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
   and the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Close-Rq with new
      private LinkID and with the same value of "Offset" and "Length" as used in the initial conditions and with
       "Responding AP Title" set to the value of "Called AP Title" sent in the initial conditions and "Data" set to '0'B in
      order to write all-zero data to the next application record, which by this command will become the current record
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                  Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rg | Select-TBA-Id-Rg | Read-Appl-Record-Rg | Close-Rg with new private
      LinkID and with the same value of "Offset" and "Length" as used previously and with "Responding AP Title" set
      equal to the value of "Called AP Title" noted previously in order to retrieve data from the application record
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
      are identical to those sent previously
```

```
Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rg with no support for security
TP/OBU/AL/WA/BV/14
                         level 1 and no support for the European profile
                                       Clauses 11.5.17, 11.6.2 and 11.6.18
                         Reference:
                         PICS Selection: Table A.4/31 AND Table A.4/32 AND NOT (Table A.2/3 OR Table A.2/1)
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
   valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
   and the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Close-Rq with new
      private LinkID and with the same value of "Offset" and "Length" as in the initial conditions and with "Responding
      AP Title" set equal to the value of "Called AP Title" as sent in the initial conditions and "Data" set to '1'B in order
      to write all-one data to the next application record, which by this command will become the current record
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                  Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Read-Appl-Record-Rq | Close-Rq with new private
      LinkID and with the same value of "Offset" and "Length" as used previously and with "Responding AP Title" set
      equal to the value of "Called AP Title" noted previously in order to retrieve data from the application record
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
      are identical to those sent previously
```

```
TP/OBU/AL/WA/BV/15
                           Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rq | Read-Appl-Record-Rq
                           with no support for security level 1 and no support for the European profile
                           Reference:
                                        Clauses 11.5.17, 11.6.2 and 11.6.18
                           PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.4/31 AND Table A.4/32
                           AND NOT (Table A.2/3 OR Table A.2/1)
                                                 Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
   valid combinations of "Offset" and "Length" in Read-Appl-Record-Rg
   the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Read-Appl-Record-
       Rg | Close-Rg with new private LinkID and with the same value of "Offset" and "Length" as used in the initial
       conditions and with "Responding AP Title" set to the value of "Called AP Title" sent in the initial conditions and
       "Data" set to '0'B in order to write all-zero data to the next application record, which by this command will
      become the current record
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
       are identical to those sent previously
```

TP/OBU/AL/WA/BV/16 Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rq | Read-Appl-Record-Rq with no support for security level 1 and no support for the European profile Reference: Clauses 11.5.17, 11.6.2 and 11.6.18 PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.4/31 AND Table A.4/32 AND NOT (Table A.2/3 OR Table A.2/1) Initial conditions repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover the whole Application Record with { the IUT being in the "initial state" and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H **Expected behaviour** ensure that { when { the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with the same value of "Offset" and "Length" as used in the initial conditions and with "Responding AP Title" set to the value of "Called AP Title" sent in the initial conditions and "Data" set to '1'B in order to write all-one data to the next application record, which by this command will become the current record then { the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are identical to those sent previously

5.2.3.2 Invalid behaviour

```
TP/OBU/AL/WA/BI/01
                           Verify that the IUT can manage a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-
                           Rq | Close-Rq that violates the restrictions due to EETS profile and no support for security
                           level 1
                                         Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2
                          Reference:
                           PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/1
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with
    "Offset" set to 40 Decimal and "Length" set to 28 Decimal in Read-Appl-Core-Rg in order to retrieve part of the
   read/only section and part of the read/write section of the Application Core
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq| Close-Rq with new private LinkID
      and with the same values of "Offset" and "Length" as in the initial conditions and with "Responding AP Title" set
      to the value of "Called AP Title" sent in the initial conditions in order to write different data in the same position
      as the data previously received
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
                                                   Final Conditions
ensure that {
   when {
      the IUT receives a valid Open-Rg | Read-Appl-Core-Rg | Close-Rg with new private LinkID and with "Offset" set
      to 40 Decimal and "Length" set to 28 Decimal in Read-Appl-Core-Rq in order to retrieve the same information
      as previously received
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
      are identical to the data received in the first read operation
```

5.2.4 Optional functionality

5.2.4.1 Valid behaviour

```
TP/OBU/AL/OF/BV/01 | Verify that the IUT can manage the Read-Display-Type-Rq | Reference: Clauses 11.5.5, 11.6.2 and 11.6.6 | PICS Selection: Table A.4/7 AND Table A.4/8 AND Table A.5/6 | Initial conditions |

with {
    the IUT being in the "initial state"
    }
    Expected behaviour

ensure that {
    when {
      the IUT receives a valid Open-Rq | Read-Display-Type-Rq | Close-Rq with new private LinkID
    }
    then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H and indicating the display type as either '41'H or '4E'H, as specified by the applicant
    }
}
```

```
TP/OBU/AL/OF/BV/02 Verify that the IUT can manage the Action-Rq (covers also Write-Data-To-External-Rq and
                          Read-Data-from-External-Rq)
                          Reference: Clauses 11.5.11, 11.5.12, 11.5.19, 11.6.2, 11.6.12, 11.6.13 and 11.6.20 PICS Selection: Table A.4/19 AND Table A.4/20 AND Table A.4/21 AND Table A.4/22 AND
                          Table A.4/35 AND Table A.4/36 AND Table A.5/14
                                                      Initial conditions
with {
       the IUT being in the "initial state"
                                                    Expected behaviour
repeat for all actions specified by the applicant
ensure that {
   when {
       the IUT receives a valid Open-Rq | Action-Rq | Close-Rq with new private LinkID and with parameters as
       specified by the applicant
   then {
       Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H, and providing
       response parameters as specified by the applicant
```

TP/OBU/AL/OF/BV/03 Verify that the IUT ca	n manage the Set-UIF-Rq
Reference: Clause	s 11.5.18, 11.6.2 and 11.6.19
PICS Selection: Tab	ole A.4/33 AND Table A.4/34
	Initial conditions
with {	
the IUT being in the "initial state"	
}	
	Expected behaviour
parameters for the two Set-UIF-Rq "Video" set to '00'H in all three Set- "Audio" set to '01'H in the first Set- "Time" set to 1 "Count" set to 1 in the first Set-UIF- } then {	• •

5.2.4.2 Invalid behaviour

```
TP/OBU/AL/OF/BI/01
                      Verify that the IUT can manage an invalid Action-Rg (covers also Write-Data-To-External-Rg
                       and Read-Data from-External-Rg)
                       Reference: Clauses 11.5.11, 11.5.12, 11.5.19, 11.6.2, 11.6.12, 11.6.13, 11.6.20
                       PICS Selection: Table A.4/19 AND Table A.4/20 AND Table A.4/21 AND Table A.4/22 AND
                       Table A.4/35 AND Table A.4/36 AND Table A.5/14
                                                 Initial conditions
with {
       the IUT being in the "initial state"
                                               Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Action-Rq | Close-Rq with new private LinkID and with parameters as
       specified by the applicant, but at least one parameter having a wrong value
   then {
       Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04', not providing any
       response parameters
```

5.2.5 Security

5.2.5.1 Valid behaviour

```
TP/OBU/AL/SC/BV/01
                          Verify that the IUT can manage Set-Password-Rq
                                        Clauses 11.5.20, 11.6.2 and 11.6.21
                          Reference:
                          PICS Selection: Table A.4/37 AND Table A.4/38
                                                 Initial conditions
with {
       the IUT being in the "initial state" AND the password to be used in the OBU is accessed according to the
   applicant specifications, and recorded in an external media
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Set-Password-Rq with new private LinkID and with valid value of "Length" in
      Set-Password-Rq and the value of the transmitted password set to a value different from that of the original
      password
   then {
      Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00', Note the value of
       "Called AP Title"
                                                  Final Conditions
ensure that {
   when {
      the IUT receives a valid Select-TBA-Id-Rq | Close-Rq with the "Responding AP Title" parameter set to the
       previously received "Called AP Title" value
   then {
      Verify that the password to be used reverts back to its original value, by accessing the OBU according to the
      applicant specifications
```

```
TP/OBU/AL/SC/BV/02
                         Verify that the IUT can manage Use-Last-Password-Rq
                                       Clauses 11.5.21, 11.6.2 and 11.6.22
                         Reference:
                                           Table A.4/37 AND Table A.4/39 AND Table A.4/38 AND Table A.4/40
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Set-Password-Rq | Close-Rq with new private LinkID and with valid
   value of "Length" in Set-Password-Rq and a value for password different from the original settings as specified by
   the applicant
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Use-Last-Password-Rq with new private LinkID and with valid value of
       "Length" in Use-Last-Password-Rq
   then {
       Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00'. Note the value of
       "Called AP Title"
      Verify that the password to be used in the OBU is the same as the one transmitted in TP/OBU/AL/SC/BV/01, by
      accessing the OBU according to the applicant specifications
                                                  Final Conditions
ensure that {
   when {
      the IUT receives a valid Select-TBA-Id-Rq | Close-Rq with the "Responding AP Title" parameter set to the
      previously received "Called AP Title" value
   then {
      Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H
      Verify that the password to be used reverts back to its original value, by accessing the OBU according to the
      applicant specifications
```

```
TP/OBU/AL/SC/BV/03
                         Verify that the IUT can manage Get-TBA-Random-Rq with no support for the EETS profile
                                       Clauses 11.5.22, 11.6.2 and 11.6.23
                         Reference:
                         PICS Selection: NOT Table A.2/1 AND Table A.4/41 AND Table A.4/42
                                                 Initial conditions
with {
      the IUT being in the "initial state"
                                               Expected behaviour
repeat 10 times, by modifying each time the value of "Length" parameter in Get-TBA-Random-Rq
ensure that {
   when {
      the IUT receives a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with valid
      value of "Length" in Get-TBA-Random-Rq
   then {
      Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00'. Note the data
      retrieved
   Repeat 100 times {
      when {
          the IUT receives a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with valid
          value of "Length" in Get-TBA-Random-Rq
      then {
          Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H.
          }
   }
                                                 Final Conditions
ensure that the set of random values received in the test execution presents a reasonable uniform distribution.
```

```
TP/OBU/AL/SC/BV/04
                         Verify that the IUT can manage Set-Credential-Rg with no support for the EETS profile
                         Reference: Clauses 11.5.23, 11.6.2 and 11.6.24
                         PICS Selection: Table A.4/43 AND Table A.4/44 AND Table A.5/10 AND Table A.5/12 AND
                         NOT Table A.2/1
                                                 Initial conditions
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rg and the data previously received
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials"
      according to the computed credentials
   then {
      Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H
```

```
TP/OBU/AL/SC/BV/05
                         Verify that the IUT can manage Set-Credential-Rq with support for the EETS profile
                                      Clauses 11.5.23, 11.6.2 and 11.6.24
                         Reference:
                         PICS Selection: Table A.2/3 AND Table A.4/43 AND Table A.4/44 AND Table A.5/10 AND
                         Table A.5/12 AND Table A.2/1
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Get-Master-Record-Rq | Close-Rq with new
   private LinkID and with value of '4'D for "Length" in Get-TBA-Random-Rq and values of '4'D for "Offset" and '8'D for
    "Length in the Get-Master-Record-Rg in order to get the values of EFC Context mark and AC CR-KeyReference
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00' and a valid
   random number and the values of the EFC Context mark and of the AC_CR-KeyReference
   and the tester having computed credentials based on the data received
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials"
      according to the computed credentials in the initial conditions
   then {
      Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H
```

```
TP/OBU/AL/SC/BV/06
                         Verify that the IUT can manage Get-Credential-Rq with no support for the EETS profile
                         Reference: Clauses 11.5.24, 11.6.2 and 11.6.25
                         PICS Selection:
                                          Table A.4/45 AND Table A.4/46 AND Table A.5/09 AND Table A.5/11 AND
                         NOT Table A.2/1
                                                 Initial conditions
Repeat 10 times varying the values of the issued parameters within their limits
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with
   valid values for "Displacement" and for "Length" in Read-Appl-Core-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
                                                Expected behaviour
Repeat 8 times varying the key used to generate credentials
ensure that {
   when {
       Tester having computed credentials according to the data received, a randomly generated number of 10 octets
       and one of the available kevs
      and the IUT receives a valid Open-Rq | Get-Credential-Rq | Close-Rq with the same values for "Offset" and
       "Length" as used in the initial conditions, with values for "Nonce-len" and "Nonce" parameters corresponding to
      a generated random number and with a value for the "Key" parameter indicating the key used for computation of
      the credentials
   then {
      Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00' and with a value
      for the received credentials equal to the computed value
```

```
TP/OBU/AL/SC/BV/07
                         Verify that the IUT can manage Get-Credential-Rq with support for the EETS profile
                                       Clauses 11.5.24, 11.6.2 and 11.6.25
                         Reference:
                         PICS Selection: Table A.2/2 AND NOT Table A.2/3 AND Table A.4/45 AND Table A.4/46
                         AND Table A.5/09 AND Table A.5/11 AND Table A.2/1
                                                 Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with
    value '0'D for "Displacement" and '14'D for "Length" in Read-Appl-Core-Rq
    and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
                                               Expected behaviour
Repeat 8 times varying the key used to generate credentials.
ensure that {
   when {
       Tester having computed credentials according to the data received, a randomly generated number of 10 octets
       and one of the available keys
       and the IUT receives a valid Open-Rq | Get-Credential-Rq | Close-Rq with the same values for "Offset" and
       "Length" as used in the initial conditions, with values of '4'D for "Nonce-len" parameter and "Nonce"
       corresponding to the generated random number and with a value for the "Key" parameter indicating the key
       used for computation of the credentials
   then {
       Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00' and with a value
       for the received credentials equal to the computed value
```

TD/ODII/AL/OO/DV/00	Marifa that the ULT are seen as Oct TDA Dandara Danish as mare for the EFTO wells
TP/OBU/AL/SC/BV/08	Verify that the IUT can manage Get-TBA-Random-Rq with support for the EETS profile
	Reference: Clauses 11.5.22, 11.6.2 and 11.6.23
	PICS Selection: Table A.2/1 AND Table A.2/3 AND Table A.4/41 AND Table A.4/42
	Initial conditions
with {	
the IUT being in th	ne "initial state"
}	
	Expected behaviour
Repeat 100 times	
ensure that {	
when {	
	es a valid Open-Rq Get-TBA-Random-Rq Close-Rq with new private LinkID and with a or "Length" in Get-TBA-Random-Rq
} *!(
then {	(
Verity reception data retrieved	n of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H. Note the
}	
}	
}	
	Final Conditions
ensure that the set of ran	dom values received in the test execution presents a reasonable uniform distribution.

```
TP/OBU/AL/SC/BV/09
                          Verify that the IUT can manage Open-Rg | Read-Appl-Core-Rg | Close-Rg with support for
                          security level 1
                          Reference:
                                        Clauses 11.5.8, 11.6.2 and 11.6.9
                          PICS Selection: Table A.4/13 AND Table A.4/14 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   repeat with the previously used LinkID and different combinations of "Offset" and "Length" parameters in order to
   cover the whole Application Core
   when {
      the IUT receives a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with the previously used LinkID and with
      valid combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole
      application core
      }
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Read-
      Application-Core-Rs" as specified by the applicant for the selected range
```

```
TP/OBU/AL/SC/BV/10
                         Verify that the IUT can manage Read-Appl-Core-Rq with broadcast Linkld with support for
                         security level 1
                         Reference: Clauses 11.5.8, 11.6.2 and 11.6.9
                         PICS Selection: Table A.4/13 AND Table A.4/14 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rg and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   repeat with different combinations of "Offset" and "Length" parameters in order to cover the whole Application Core
   when {
      the IUT receives a valid Read-Appl-Core-Rq with broadcast LinkID and with valid combinations of "Offset" and
       "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole application core
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Read-
      Application-Core-Rs" as specified by the applicant for the selected range
```

```
Verify that the IUT can manage Open-Rg | Read-Appl-Record-Rg | Close-Rg with support for
TP/OBU/AL/SC/BV/11
                        security level 1
                        Reference:
                                      Clauses 11.5.13, 11.6.2 and 11.6.14
                        PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                               Expected behaviour
ensure that {
   repeat with the previously used LinkID and different combinations of "Offset" and "Length" parameters in order to
   cover the whole Application Record
   when {
      the IUT receives a valid Open-Rq | Read-Appl-record-Rq | Close-Rq with the previously used LinkID and with
      valid combinations of "Offset" and "Length" in Read-Appl-Record-Rg in order to retrieve a part of or the whole
      application record
      }
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Read-
      Application-Record-Rs" as specified by the applicant for the selected range
```

```
TP/OBU/AL/SC/BV/12
                         Verify that the IUT can manage Read-Appl-Record-Rq with broadcast Linkld with support for
                         security level 1
                         Reference: Clauses 11.5.13, 11.6.2 and 11.6.14
                         PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rg and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   repeat with different combinations of "Offset" and "Length" parameters in order to cover the whole Application
   Record
   when {
      the IUT receives a valid Read-Appl-Record-Rg with broadcast LinkID and with valid combinations of "Offset"
      and "Length" in Read-Appl-Record-Rg in order to retrieve a part of or the whole application record
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Read-
      Application-record-Rs" as specified by the applicant for the selected range
```

```
TP/OBU/AL/SC/BV/13 Verify that the IUT can manage Open-Rq | Read-Appl-Record-Rq | Close-Rq with support for
                        the European profile and support for security level 1
                        Reference:
                                      Clauses 11.5.13, 11.6.2, 11.6.14 and D.2.3
                        PICS Selection:
                                         Table A.2/1 AND Table A.4/23 AND Table A.4/24 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   repeat with the previously used LinkID and different valid combinations of "Offset" parameter, and "Length"
   parameter, in order to cover the whole Application Record respecting the limit of Record Length of 8 octets
   when {
      the IUT receives a valid Open-Rq | Read-Appl-record-Rq | Close-Rq with the previously used LinkID and with
      valid combinations of "Offset" and "Length" in Read-Appl-Record-Rg in order to retrieve a part of or the whole
      application record
      }
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Read-
      Application-Record-Rs" as specified by the applicant for the selected range
```

```
TP/OBU/AL/SC/BV/14
                        Verify that the IUT can manage Read-Appl-Record-Rq with broadcast Linkld with support for
                         the European profile and support for security level 1
                         Reference: Clauses 11.5.13, 11.6.2, 11.6.14 and D.2.3
                         PICS Selection: Table A.2/1 AND Table A.4/23 AND Table A.4/24 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rg and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   repeat with different valid combinations of "Offset" parameter, and "Length" parameter, in order to cover the whole
   Application Record respecting the limit of Record Length of 8 octets
      the IUT receives a valid Read-Appl-Record-Rq with broadcast LinkID and with valid combinations of "Offset"
      and "Length" in Read-Appl-Record-Rg in order to retrieve a part of or the whole application record
```

then {

the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Read-

Application-record-Rs" as specified by the applicant for the selected range

TP/OBU/AL/SC/BV/15 Verify that the IUT can manage Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Close-Rg with the restrictions due to EETS profile and support of security level 1 Reference: Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2 PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND Table A.2/3 Initial conditions repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover the whole Application Core with { the IUT being in the "initial state" and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with valid value of "Length" in Get-TBA-Random-Rq and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00' and tester having retrieved data from the OBU according to the field and length as specified by the applicant for calculating credentials and having computed its credentials based on the random number received after the Get-TBA-Random-Rq and the data previously received and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials" according to the computed credentials; and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H and the IUT having received a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with the previously received LinkID and with "Offset" set to 47 Decimal and "Length" set to 28 Decimal in Read-Appl-Core-Rg in order to retrieve the first writable part of the Application Core and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Note the value of "Called AP Title" and the data received **Expected behaviour** ensure that {

```
when {
    when {
        the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Read-Appl-Core | Close-Rq with the previously received LinkID and with the same values of "Offset" and "Length" as in the previous Read-Appl-Core-Rq and with "Responding AP Title" set equal to the value of "Called AP Title" noted previously in order to write data to the application core being different to the data previously received and subsequently retrieve data from the same memory in the application core
    }
then {
    the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are the same as the data sent previously
}
```

```
TP/OBU/AL/SC/BV/16
                         Verify that the IUT can manage Write-Appl-Record-Curr-Rg with the restrictions due to EETS
                         profile and support of security level 1
                                       Clauses 11.5.14, 11.6.2 and 11.6.15
                         Reference:
                                           Table A.4/25 AND Table A.4/26 AND Table A.2/1 and Table A.2/3
                         PICS Selection:
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record respecting the limit of Record Length of 8 octets
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" according to the computed credentials;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
   and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with the previously received
   LinkID and with valid combinations of "Offset" and "Length" in Read-Appl-Record-Rg
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq with the
      previously received LinkID and with the same value of "Offset" and "Length" as received in the initial conditions
      and with "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                  Final Conditions
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Read-Appl-Record-Rq | Close-Rq with the previously
      received LinkID and with the same values of "Offset" and "Length" as used previously and with "Responding AP
      Title" set equal to the value of "Called AP Title" noted previously
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
      are the same as the data sent previously
```

TP/OBU/AL/SC/BV/17 Verify that the IUT can manage Write-Appl-Record-Curr-Rg | Read-Appl-Record-Rg with the restrictions due to EETS profile and support of security level 1 Reference: Clauses 11.5.14, 11.6.2 and 11.6.15 PICS Selection: Table A.2/1 AND Table A.2/3 AND Table A.4/23 AND Table A.4/24 AND Table A.4/25 AND Table A.4/26 Initial conditions repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover the whole Application Record respecting the limit of Record Length of 8 octets with { the IUT being in the "initial state" and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with valid value of "Length" in Get-TBA-Random-Rq and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00' and tester having retrieved data from the OBU according to the field and length as specified by the applicant for calculating credentials and having computed its credentials based on the random number received after the Get-TBA-Random-Rg and the data previously received and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials" according to the computed credentials; and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with the previously received LinkID and with valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H **Expected behaviour** ensure that { when { the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Read_Appl-Record-Rq | Close-Rq with the previously received LinkID and with the same values of "Offset" and "Length" as in the initial conditions and with "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions then { the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received

are the same as the data sent previously

}

```
TP/OBU/AL/SC/BV/18
                          Verify that the IUT can manage Write-Appl-Record-Curr-Conf-Rg with the restrictions due to
                          EETS profile and support of security level 1
                                        Clauses 11.5.15, 11.6.2 and 11.6.16
                          Reference:
                                           Table A.2/1 AND Table A.2/3 AND A.4/27 AND Table A.4/28
                         PICS Selection:
                                                    Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record respecting the limit of Record Length of 8 octets
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
    valid value of "Length" in Get-TBA-Random-Rq
    and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
    and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
    calculating credentials and having computed its credentials based on the random number received after the
    Get-TBA-Random-Rq and the data previously received
    and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" according to the computed credentials;
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
    and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with the previously received
    LinkID and with valid combinations of "Offset" and "Length" in Read-Appl-Record-Rg
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                  Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Close-Rq with the
       previously received LinkID and with the same value of "Offset" and "Length" as used in the initial conditions and with "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                    Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Read-Appl-Record-Rq | Close-Rq with the previously
       received LinkID and with the same values of "Offset" and "Length" as used previously and with "Responding AP
       Title" set equal to the value of "Called AP Title" noted previously
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received
       are the same as the data sent previously
```

TP/OBU/AL/SC/BV/19 Verify that the IUT can manage Write-Appl-Record-Curr-Conf-Rg | Read-Appl-Record-Rg with the restrictions due to EETS profile and support of security level 1 Clauses 11.5.15, 11.6.2 and 11.6.16 Reference: PICS Selection: Table A.2/1 AND Table A.2/3 AND Table A.4/23 AND Table A.4/24 AND Table A.4/27 AND Table A.4/28 Initial conditions repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover the whole Application Record respecting the limit of Record Length of 8 octets with { the IUT being in the "initial state" and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with valid value of "Length" in Get-TBA-Random-Rq and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00' and tester having retrieved data from the OBU according to the field and length as specified by the applicant for calculating credentials and having computed its credentials based on the random number received after the Get-TBA-Random-Rq and the data previously received and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials" according to the computed credentials; and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with the previously received LinkID and with valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H **Expected behaviour** ensure that { when { the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Read_Appl-Record-Rq | Close-Rq with the previously received LinkID and with the same values of "Offset" and "Length" as in the initial conditions and with "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions then { the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are the same as the data sent previously

TP/OBU/AL/SC/BV/20 Verify that the IUT can manage multiple Write-Appl-Record-Curr-Conf-Rg in a single frame with the restrictions due to EETS profile and support of security level 1 Reference: Clauses 11.5.15, 11.6.2 and 11.6.16 Table A.2/1 AND Table A.2/3 AND Table A.4/27 AND Table A.4/28 PICS Selection: Initial conditions with { the IUT being in the "initial state" and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with valid value of "Length" in Get-TBA-Random-Rg and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00' and tester having retrieved data from the OBU according to the field and length as specified by the applicant for calculating credentials and having computed its credentials based on the random number received after the Get-TBA-Random-Rq and the data previously received and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials" according to the computed credentials; and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with the previously received LinkID and with "Offset" set to zero and "Length" set to 8 in order to retrieve the whole application record and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H **Expected behaviour** ensure that { when { the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq("Offset"=0, "Length"=A) | Write-Appl-Record-Curr-Conf -Rq("Offset"=A, "Length"=B) | Write-Appl-Record-Curr-Conf-Rq("Offset"=A+B, "Length"=C) | Read-Appl-Record-Rq("Offset"=0, "Length"=A+B+C=8) | Close-Rq with the previously received LinkID and with "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions then { the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received

are the same as the data sent previously.

TP/OBU/AL/SC/BV/21 Verify that the IUT can manage Get-Credential-Rq with support for security Level 1 Clauses 11.5.24, 11.6.2 and 11.6.25 Reference: PICS Selection: Table A.2/2 AND Table A.2/3 AND Table A.4/45 AND Table A.4/46 AND Table A.5/09 AND Table A.5/11 AND Table A.2/1 Initial conditions with { the IUT being in the "initial state" and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with valid value of "Length" in Get-TBA-Random-Rg and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00' and tester having retrieved data from the OBU according to the field and length as specified by the applicant for calculating credentials and having computed its credentials based on the random number received after the Get-TBA-Random-Rq and the data previously received and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials" as evaluated by tester; and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H **Expected behaviour** Repeat 8 times varying the key used to generate credentials. ensure that { when { Tester having computed credentials according to the data received, a randomly generated number of 10 octets and one of the available kevs and the IUT receives a valid Open-Rq | Get-Credential-Rq | Close-Rq with the same values for "Offset" and "Length" as used in the initial conditions, with values of '4'D for "Nonce-len" parameter and "Nonce" corresponding to the generated random number and with a value for the "Key" parameter indicating the key used for computation of the credentials then { Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00' and with a value for the received credentials equal to the computed value

5.2.5.2 Invalid behaviour

```
TP/OBU/AL/SC/BI/01
                          Verify that the IUT can manage Set-Password-Rq with invalid length
                                       Clauses 11.5.20, 11.6.2 and 11.6.21
                          Reference:
                          PICS Selection: Table A.4/37 AND Table A.4/38
                                                 Initial conditions
with {
       the IUT being in the "initial state" AND the password to be used in the OBU is accessed according to the
   applicant specifications, and recorded in an external media
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a sequence Open-Rq | Set-Password-Rq with new private LinkID and with invalid value of
       "Length" in Set-Password-Rg and the value of the transmitted password set to a value different from that of the
      original password
   then {
      Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04', Verify that the
      password to be used remains set to its original value, by accessing the OBU according to the applicant
      specifications
```

```
TP/OBU/AL/SC/BI/02

Verify that the IUT can manage Get-TBA-Random with invalid length
Reference: Clauses 11.5.22, 11.6.2 and 11.6.23
PICS Selection: Table A.4/41 AND Table A.4/42

Initial conditions

with {
    the IUT being in the "initial state"
    }

Expected behaviour

ensure that {
    when {
        the IUT receives a sequence Open-Rq | Get-TBA-Random-Rq with new private LinkID and with invalid value of "Length" in Get-TBA-Random-Rq
    }
    then {
        Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04'
    }
}
```

```
TP/OBU/AL/SC/BI/03
                          Verify that the IUT with no support for the EETS profile can manage invalid Set-Credential-
                          Reference:
                                        Clauses 11.5.23, 11.6.2 and 11.6.24
                          PICS Selection: Table A.4/43 AND Table A.4/44 AND Table A.5/10 AND Table A.5/12
                          AND NOT Table A.2/1
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and Tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received. The value of the credentials is then modified
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials"
      according to the value computed in the initial conditions
   then {
       Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04'H
      }
```

```
TP/OBU/AL/SC/BI/04
                          Verify that the IUT with support for the EETS profile can manage invalid Set-Credential-Rq
                                       Clauses 11.5.23, 11.6.2 and 11.6.24
                          Reference:
                          PICS Selection: Table A.4/43 AND Table A.4/44 AND Table A.5/10 AND Table A.5/12
                          AND Table A.2/1
                                                 Initial conditions
with {
   the IUT being in the "initial state" AND Test Purpose TP/OBU/AL/SC/BV/08 successfully executed
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Get-Master-Record-Rq | Close-Rq with new
   private LinkID and with valid value of "Length" in Get-TBA-Random-Rq and values of '10'D for "Offset" and '2'D for
    "Length in the Get-Master-Record-Rg
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and the Tester having retrieved data from the OBU and having computed its credentials based on the random
   number received after the Get-TBA-Random-Rq and the data previously received. The value of the credentials is
   then modified
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials"
      according to the altered value
   then {
      Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04'H
```

Verify that the IUT with support for the EETS profile can manage invalid Get-Credential-Rq		
Reference: Clauses 11.5.24, 11.6.2 and 11.6.25		
PICS Selection: Table A.4/45 AND Table A.4/46 AND Table A.5/09 AND Table A.5/11		
AND Table A.2/1		
Initial conditions		
e "initial state"		
Expected behaviour		
valid Open-Rq Get-Credential-Rq Close-Rq with valid values for "Offset" and "Length", but		
once-len" parameter different from '4'D		
·		
Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04'		

```
TP/OBU/AL/SC/BI/06
                          Verify that the IUT with support for the EETS profile can manage invalid Get-Credential-Rq
                                        Clauses 11.5.24, 11.6.2 and 11.6.25
                          Reference:
                          PICS Selection: Table A.4/45 AND Table A.4/46 AND Table A.5/09 AND Table A.5/11
                          AND Table A.2/1
                                                 Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Get-Credential-Rq | Close-Rq with values of '10'D for "Nonce-len" parameter
      and "Nonce" corresponding to a generated random number but with an invalid value for the "Key" parameter
      indicating the key used for computation of the credentials.
   then {
       Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04'.
```

```
TP/OBU/AL/SC/BI/07
                          Verify that the IUT can handle Open-Rg | Read-Appl-Core-Rg | Close-Rg from not
                          authorized RSE with support for security level 1
                          Reference:
                                        Clauses 11.5.8, 11.6.2 and 11.6.9
                                           Table A.4/13 AND Table A.4/14 AND Table A.2/3
                          PICS Selection:
                                                 Initial conditions
with {
   the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with valid
      combinations of "Offset" and "Length" in Read-Appl-Core-Rg in order to retrieve a part of or the whole
      application core
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
```

```
TP/OBU/AL/SC/BI/08
                          Verify that the IUT can handle Open-Rq | Read-Appl-Core-Rq | Close-Rq with support for
                          security level 1 with invalid credentials
                          Reference: Clauses 11.5.8, 11.6.2 and 11.6.9
                          PICS Selection: Table A.4/13 AND Table A.4/14 AND Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rg and the data previously received
   and tester having incremented the value of credentials by 1
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '15'H and "Diagnostic" set to '004H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with the previously used LinkID and with
      valid combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole
      application core
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
```

```
TP/OBU/AL/SC/BI/09
                          Verify that the IUT can handle invalid Open-Rg | Read-Appl-Core-Rg | Close-Rg with
                          support for security level 1
                                        Clauses 11.5.8, 11.6.2 and 11.6.9
                          Reference:
                                            Table A.4/13 AND Table A.4/14 AND Table A.2/3
                          PICS Selection:
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rg
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with valid
      combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole
      application core
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
```

```
TP/OBU/AL/SC/BI/10
                          Verify that the IUT can handle invalid Open-Rg | Read-Appl-Core-Rg | Close-Rg with
                          support for security level 1
                          Reference: Clauses 11.5.8, 11.6.2 and 11.6.9
                          PICS Selection: Table A.4/13 AND Table A.4/14 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with the previously used LinkID and with a
      different value for Calling Application Title and with valid combinations of "Offset" and "Length" in Read-Appl-
      Core-Rg in order to retrieve a part of or the whole application core
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
      }
```

```
TP/OBU/AL/SC/BI/11
                         Verify that the IUT can handle Read-Appl-Core-Rg with broadcast LinkId with support for
                         security level 1 with invalid credentials
                         Reference:
                                       Clauses 11.5.8, 11.6.2 and 11.6.9
                                          Table A.4/13 AND Table A.4/14 AND Table A.2/3
                         PICS Selection:
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and tester having incremented the value of the credentials by 1
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester:
   and the IUT having issued a response with "Result" set to '15'H and "Diagnostic" set to '04'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Read-Appl-Core-Rq with broadcast LinkID and with valid combinations of "Offset" and
       "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole application core
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
```

```
TP/OBU/AL/SC/BI/12
                         Verify that the IUT can handle invalid Read-Appl-Core-Rq with broadcast Linkld with support
                         for security level 1
                         Reference:
                                      Clauses 11.5.8, 11.6.2 and 11.6.9
                         PICS Selection: Table A.4/13 AND Table A.4/14 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Read-Appl-Core-Rq with broadcast LinkID and with a different value for Calling
      Application Title and with valid combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve
      a part of or the whole application core
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
      }
```

```
TP/OBU/AL/SC/BI/13
                        Verify that the IUT can manage Open-Rq | Read-Appl-Record-Rq | Close-Rq from not
                         authorized RSE with support for security level 1
                                       Clauses 11.5.13, 11.6.2 and 11.6.14
on: Table A.4/23 AND Table A.4/24 AND Table A.2/3
                         Reference:
                         PICS Selection:
                                                    Initial conditions
with {
    the IUT being in the "initial state"
                                                  Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Read-Appl-record-Rq | Close-Rq with new private LinkID and with valid
       combinations of "Offset" and "Length" in Read-Appl-Record-Rq in order to retrieve a part of or the whole
       application record
   then {
       the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
```

TP/OBU/AL/SC/BI/14	Verify that the IUT can manage Read-Appl-Record-Rq with broadcast LinkId from not
	authorized RSE with support for security level 1
	Reference: Clauses 11.5.13, 11.6.2 and 11.6.14
	PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.2/3
	Initial conditions
with {	
the IUT being in the	e "initial state"
}	
	Expected behaviour
ensure that {	
when {	
the IUT receives	a valid Read-Appl-Record-Rq with broadcast LinkID and with valid combinations of "Offset"
	Read-Appl-Record-Rg in order to retrieve a part of or the whole application record
}	
then {	
the IUT issues a	response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
}	,
}	

```
TP/OBU/AL/SC/BI/15
                       Verify that the IUT can manage invalid Open-Rg | Read-Appl-Record-Rg | Close-Rg with
                        support for security level 1
                                      Clauses 11.5.13, 11.6.2 and 11.6.14
                        Reference:
                        PICS Selection:
                                         Table A.4/23 AND Table A.4/24 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                               Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Read-Appl-record-Rq | Close-Rq with new private LinkID and with valid
      combinations of "Offset" and "Length" in Read-Appl-Record-Rq in order to retrieve a part of or the whole
      application record
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
```

```
TP/OBU/AL/SC/BI/16
                        Verify that the IUT can manage invalid Open-Rq | Read-Appl-Record-Rq | Close-Rq with
                        support for security level 1
                        Reference:
                                     Clauses 11.5.13, 11.6.2 and 11.6.14
                        PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rg | Read-Appl-record-Rg | Close-Rg with the previously used LinkID and with a
      different value for Calling Application Title and with valid combinations of "Offset" and "Length" in Read-Appl-
       Record-Rq in order to retrieve a part of or the whole application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
      }
```

```
TP/OBU/AL/SC/BI/17
                         Verify that the IUT can manage invalid Read-Appl-Record-Rg with broadcast Linkld with
                         support for security level 1
                                       Clauses 11.5.13, 11.6.2 and 11.6.14
                         Reference:
                         PICS Selection:
                                          Table A.4/23 AND Table A.4/24 AND Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rg
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Read-Appl-Record-Rq with broadcast LinkID and with a different value for Calling
      Application Title and with valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq in order to
      retrieve a part of or the whole application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no data
```

```
TP/OBU/AL/SC/BI/18
                          Verify that the IUT can manage a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-
                          Rg | Close-Rg with invalid access credentials when security level 1 is selected
                         Reference: Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2
                          PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rg and the data previously received
   and tester having increased the value of the computed credentials by 1
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester:
   and the IUT having issued a response with "Result" set to '15'H and "Diagnostic" set to '04'H
                                               Expected behaviour
ensure that {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq| Close-Rq with the previously
```

```
ensure that {
    when {
        the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq| Close-Rq with the previously received LinkID and with valid values of "Offset" and "Length" and with "Responding AP Title" set to the value of "Called AP Title" sent in the initial conditions
    }
    then {
        the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
    }
```

```
Verify that the IUT can manage a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-
 TP/OBU/AL/SC/BI/19
                          Rg | Close-Rg with invalid LinkID when security level 1 is selected
                          Reference:
                                        Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2
                                           Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND Table A.2/3
                          PICS Selection:
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rg | Select-TBA-Id-Rq | Write-Appl-Core-Rq| Close-Rq with a new LinkID and
      with valid values of "Offset" and "Length" and with "Responding AP Title" set to the value of "Called AP Title"
      sent in the initial conditions
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
```

```
TP/OBU/AL/SC/BI/20
                          Verify that the IUT can manage a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-
                          Rq | Close-Rq with invalid Calling Application Title when security level 1 is selected
                                        Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2
                          Reference:
                          PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq| Close-Rq with the previously
       received LinkID and with valid values of "Offset" and "Length" and with "Responding AP Title" set to the value of
       "Called AP Title" sent in the initial conditions, but with a Calling AP Title value different from the previously
       received value.
```

the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H

then {

```
TP/OBU/AL/SC/BI/21
                          Verify that the IUT can manage a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-
                          Record-Curr-Rg | Close-Rg with invalid access credentials when security level 1 is selected
                                        Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2
                          Reference:
                                           Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND Table A.2/3
                          PICS Selection:
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rg
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and tester having increased the value of the computed credentials by 1
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester:
   and the IUT having issued a response with "Result" set to '15'H and "Diagnostic" set to '04'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq with the
      previously received LinkID and with valid values of "Offset" and "Length" and with "Responding AP Title" set to
      the value of "Called AP Title" sent in the initial conditions
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
```

```
TP/OBU/AL/SC/BI/22
                          Verify that the IUT can manage a sequence Open-Rg | Select-TBA-Id-Rg | Write-Appl-
                          Record-Curr-Rg | Close-Rg with invalid LinkID when security level 1 is selected
                          Reference: Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2
                          PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND Table A.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                               Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq with a new
      LinkID and with valid values of "Offset" and "Length" and with "Responding AP Title" set to the value of "Called
       AP Title" sent in the initial conditions
```

```
then {
   the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
```

```
TP/OBU/AL/SC/BI/23
                          Verify that the IUT can manage a sequence Open-Rg | Select-TBA-Id-Rg | Write-Appl-
                          Record-Curr-Rq | Close-Rq with invalid Calling Application Title when security level 1 is
                          selected
                                        Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2
                          Reference:
                          PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rg
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq with the
      previously received LinkID and with valid values of "Offset" and "Length" and with "Responding AP Title" set to
      the value of "Called AP Title" sent in the initial conditions, but with a Calling AP Title value different from the
      previously received value.
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
```

```
TP/OBU/AL/SC/BI/24 Verify that the IUT correctly identifies a Get-Master-Record-Rq outside a session with support
                       for security level 1
                       Reference: Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/11 AND Table A.4/12 AND Table A.5/4 AND Table A.2/3
                                                  Initial behaviour
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
    valid value of "Length" in Get-TBA-Random-Rg
    and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
    and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
    calculating credentials and having computed its credentials based on the random number received after the
    Get-TBA-Random-Rq and the data previously received
    and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester:
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
       the IUT receives a valid Get-Master-Record-Rq with broadcast LinkID and with valid combinations of "Offset"
       and "Length" in Get-Master-Record-Rq in order to retrieve a part of or the whole master record
       }
   then {
       the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data
```

}

```
TP/OBU/AL/SC/BI/25
                      Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Rg following a valid
                       termination request of an existing session with support for security level 1
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/25 AND Table A.4/26 AND Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rg
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Curr-Rg with LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Write-Appl-Record-Curr-Rq in order to write a part of or the whole
      current application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/SC/BI/26
                      Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Rg following a valid
                       termination request of an existing session with support for security level 1
                       Reference: Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/25 AND Table A.4/26 AND Table A.2/3
                                                  Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
    valid value of "Length" in Get-TBA-Random-Rq
    and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
    and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
    calculating credentials and having computed its credentials based on the random number received after the
    Get-TBA-Random-Rq and the data previously received
    and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Curr-Rg with broadcast LinkID and with valid combinations of
       "Offset" and "Length" in Write-Appl-Record-Curr-Rq in order to write a part of or the whole current application
       record
       }
   then {
       the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/SC/BI/27
                       Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Conf-Rg following a
                       valid termination request of an existing session and support for security level 1
                       Reference:
                                     Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/27 AND Table A.4/28 AND Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rg
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Curr-Conf-Rg with LinkID as used in the initial conditions and with
      valid combinations of "Offset" and "Length" in Write-Appl-Record-Curr-Conf-Rq in order to write a part of or the
      whole current application record
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/SC/BI/28
                      Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Conf-Rg following a
                       valid termination request of an existing session and support for security level 1
                       Reference: Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/27 AND Table A.4/28 AND Table A.2/3
                                                  Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
    valid value of "Length" in Get-TBA-Random-Rq
    and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
    and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
    calculating credentials and having computed its credentials based on the random number received after the
    Get-TBA-Random-Rq and the data previously received
    and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Curr-Conf-Rq with broadcast LinkID and with valid combinations of
       "Offset" and "Length" in Write-Appl-Record-Curr-Conf-Rq in order to write a part of or the whole current
       application record
   then {
       the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/SC/BI/29
                       Verify that the IUT correctly identifies an invalid Write-Appl-Core-Rg following a valid
                       termination request of an existing session and support for security level 1
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rg
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Core-Rg with LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Write-Appl-Core-Rq in order to write a part of or the whole current
      application core
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/SC/BI/30 Verify that the IUT correctly identifies an invalid Write-Appl-Core-Rg following a valid
                       termination request of an existing session and support for security level 1
                       Reference: Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/3
                                                  Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
    valid value of "Length" in Get-TBA-Random-Rq
    and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
    and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
    calculating credentials and having computed its credentials based on the random number received after the
    Get-TBA-Random-Rq and the data previously received
    and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Core-Rg with broadcast LinkID and with valid combinations of "Offset" and
       "Length" in Write-Appl-Core-Rq in order to write a part of or the whole current application core
   then {
       the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/SC/BI/31
                         Verify that the IUT handles a too big number of directives in a single frame and support for
                         security level 1
                         Reference:
                                       Clauses 11.5.1 and 11.6.1
                        PICS Selection: Table A.3/1 AND Table A.2/3
                                                  Initial conditions
with {
       the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rg
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
   and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives an Open-Rq | Read-Appl-Core-Rq ("Offset"=47, "Length"=2) | Close-Rq with new private
       LinkID and with "Number of Directives" set to 1
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, but with no data, to show that
      only Open-Rq has been performed
   when {
      the IUT receives a valid Write-Appl-Core-Rq ("Offset"=47, "Length"=2) | Close-Rq with private LinkID as used
      previously and with "Number of Directives" set to 1
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, to show that the session is still
      active
      }
   when {
      the IUT receives a Read-Appl-Core-Rq ("Offset"=47, "Length"=2) | Close-Rq with new private LinkID and with
       "Number of Directives" set to 2
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H and data as written previously
   when {
      the IUT receives a valid Close-Rq
   then {
```

the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H

5.2.6 Integrity constraints

5.2.6.1 Invalid behaviour

```
TP/OBU/AL/IC/BI/O1 Verify that the IUT correctly identifies an invalid termination request
Reference: Clauses 11.6.2 and 11.6.4
PICS Selection: Table A.4/3 AND Table A.4/4

Initial conditions

with {
    the IUT being in the "initial state"
    }

Expected behaviour

ensure that {
    when {
        the IUT receives a valid Close-Rq with new private LinkID.
        }
        then {
            the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data
        }
}
```

	T
TP/OBU/AL/IC/BI/02	Verify that the IUT correctly identifies an invalid termination request
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/3 AND Table A.4/4
	Initial conditions
with {	
the IUT being in	nthe "initial state"
}	
	Expected behaviour
ensure that {	
when {	
the IUT receives	s a valid Close-Rg with broadcast LinkID
}	
then {	
the IUT issues a	a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data
}	
}	

```
TP/OBU/AL/IC/BI/03
                       Verify that the IUT correctly handles a valid Read-Appl-Record-Rg outside a session and no
                       support for security level 1
                       Reference: Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/23 AND Table A.4/24 AND NOT Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Read-Appl-Record-Rq with private LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Read-Appl-Record-Rq in order to retrieve a part of or the whole
      application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '00'2 and no data
```

TP/OBU/AL/IC/BI/04	Empty test purpose to maintain numbering aligned with previous versions of the present document
	Initial conditions
	Expected behaviour

```
TP/OBU/AL/IC/BI/05
                      Verify that the IUT correctly handles a valid Read-Appl-Core-Rq outside a session and no
                       support for security level 1
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/11 AND Table A.4/12 AND NOT Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Read-Appl-Core-Rq with private LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole
      application core
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data
      }
```

TP/OBU/AL/IC/BI/06	Empty test purpose to maintain numbering aligned with previous versions of the present document
Initial conditions	
	Expected behaviour

```
TP/OBU/AL/IC/BI/07
                       Verify that the IUT correctly handles a valid Read-Master-Core-Rq outside a session and no
                       support for security level 1
                       Reference: Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/09 AND Table A.4/10 AND NOT Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Read-Master-Core-Rq with LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Read- Master-Core-Rq in order to retrieve a part of or the whole master
      core
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data
```

TP/OBU/AL/IC/BI/08	Empty test purpose to maintain numbering aligned with previous versions of the present
	document
Initial conditions	
Expected behaviour	

```
TP/OBU/AL/IC/BI/09
                       Verify that the IUT correctly identifies a Get-Master-Record-Rq outside a session with no
                       support for security level 1
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/11 AND Table A.4/12 AND Table A.5/4 AND NOT Table A.2/3
                                                  Initial behaviour
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Get-Master-Record-Rq with LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Get-Master-Record-Rq in order to retrieve a part of or the whole master
       record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data
      }
```

```
TP/OBU/AL/IC/BI/10
                      Verify that the IUT correctly identifies a Get-Master-Record-Rq outside a session with no
                       support for security level 1
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/11 AND Table A.4/12 AND Table A.5/4 AND NOT Table A.2/3
                                                  Initial behaviour
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Get-Master-Record-Rq with broadcast LinkID and with valid combinations of "Offset"
      and "Length" in Get-Master-Record-Rq in order to retrieve a part of or the whole master record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data
```

```
TP/OBU/AL/IC/BI/11
                       Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Rq following a valid
                       termination request of an existing session with no support for security level 1
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/25 AND Table A.4/26 AND NOT Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
      the IUT receives a valid Write-Appl-Record-Curr-Rg with LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Write-Appl-Record-Curr-Rq in order to write a part of or the whole
      current application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/IC/BI/12
                       Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Rq following a valid
                       termination request of an existing session with no support for security level 1
                       Reference:
                                     Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/25 AND Table A.4/26 AND NOT Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Curr-Rq with broadcast LinkID and with valid combinations of
       "Offset" and "Length" in Write-Appl-Record-Curr-Rq in order to write a part of or the whole current application
       record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
      }
```

```
Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Conf-Rq following a
TP/OBU/AL/IC/BI/13
                       valid termination request of an existing session and no support for security level 1
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/27 AND Table A.4/28 AND NOT Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Write-Appl-Record-Curr-Conf-Rg with LinkID as used in the initial conditions and with
      valid combinations of "Offset" and "Length" in Write-Appl-Record-Curr-Conf-Rq in order to write a part of or the
      whole current application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/IC/BI/14
                       Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Conf-Rq following a
                       valid termination request of an existing session and no support for security level 1
                       Reference:
                                     Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/27 AND Table A.4/28 AND NOT Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Curr-Conf-Rq with broadcast LinkID and with valid combinations of
       "Offset" and "Length" in Write-Appl-Record-Curr-Conf-Rg in order to write a part of or the whole current
       application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
      }
```

```
TP/OBU/AL/IC/BI/15
                       Verify that the IUT correctly identifies an invalid Write-Appl-Record-Next-Rg following a valid
                       termination request of an existing session
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/29 AND Table A.4/30 AND NOT (Table A.2.1 OR Table A.2/3)
                                                  Initial Conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Write-Appl-Record-Next-Rg with LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Write-Appl-Record-Next-Rq in order to write a part of or the whole
      current application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/IC/BI/16
                       Verify that the IUT correctly identifies an invalid Write-Appl-Record-Next-Rg following a valid
                       termination request of an existing session
                       Reference:
                                     Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/29 AND Table A.4/30 AND NOT (Table A.2/1 OR Table A.2/3)
                                                 Initial Conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Next-Rq with broadcast LinkID and with valid combinations of
       "Offset" and "Length" in Write-Appl-Record-Next-Rq in order to write a part of or the whole current application
       record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
      }
```

```
TP/OBU/AL/IC/BI/17
                       Verify that the IUT correctly identifies an invalid Write-Appl-Record-Next-Conf-Rq following a
                       valid termination request of an existing session
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/31 AND Table A.4/32 AND NOT (Table A.2/1 OR Table A.2/3)
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Write-Appl-Record-Next-Conf-Rg with LinkID as used in the initial conditions and with
      valid combinations of "Offset" and "Length" in Write-Appl-Record-Next-Conf-Rq in order to write a part of or the
      whole current application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/IC/BI/18
                       Verify that the IUT correctly identifies an invalid Write-Appl-Record-Next-Conf-Rg following a
                       valid termination request of an existing session
                       Reference:
                                     Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/31 AND Table A.4/32 AND NOT Table A.2/1
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Next-Conf-Rq with broadcast LinkID and with valid combinations of
       "Offset" and "Length" in Write-Appl-Record-Next-Conf-Rq in order to write a part of or the whole current
       application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
      }
```

```
TP/OBU/AL/IC/BI/19
                       Verify that the IUT correctly identifies an invalid Write-Appl-Core-Rq following a valid
                       termination request of an existing session and no support for security level 1
                       Reference:
                                     Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/15 AND Table A.4/16 AND NOT Table A.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
      the IUT receives a valid Write-Appl-Core-Rg with LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Write-Appl-Core-Rq in order to write a part of or the whole current
      application core
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

TD/ODLIVAL /IO/DI/OO	Note of the control o	
TP/OBU/AL/IC/BI/20	Verify that the IUT correctly identifies an invalid Write-Appl-Core-Rq following a valid	
	termination request of an existing session and no support for security level 1	
	Reference: Clauses 11.6.2 and 11.6.4	
	PICS Selection: Table A.4/15 AND Table A.4/16 AND NOT Table A.2/3	
	Initial conditions	
with {		
the IUT being in the	e "initial state"	
and the IUT having	received a valid Open-Rq Close-Rq with a new private LinkID	
	issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H	
}		
•	Expected behaviour	
ensure that {	·	
when {		
the IUT receives	s a valid Write-Appl-Core-Rq with broadcast LinkID and with valid combinations of "Offset" and	
	"Length" in Write-Appl-Core-Rg in order to write a part of or the whole current application core	
}		
then {		
	the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H	
}		
}		
V		

```
TP/OBU/AL/IC/BI/21
                       Verify that the IUT correctly identifies an invalid Write-Appl-Core-Conf-Rq following a valid
                       termination request of an existing session
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/17 AND Table A.4/18 AND NOT Table A.2/1
                                                  Initial conditions
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Core-Conf-Rq with LinkID as used in the initial conditions and with valid
      combinations of "Offset" and "Length" in Write-Appl-Core-Conf-Rq in order to write a part of or the whole current
      application core
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/IC/BI/22
                       Verify that the IUT correctly identifies an invalid Write-Appl-Core-Conf-Rq following a valid
                       termination request of an existing session
                       Reference:
                                     Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/17 AND Table A.4/18 AND NOT Table A.2/1
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Write-Appl-Core-Conf-Rq with broadcast LinkID and with valid combinations of "Offset"
      and "Length" in Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
      }
```

```
TP/OBU/AL/IC/BI/23
                       Verify that the IUT correctly identifies an invalid Select-TBA-Id-Rq following a valid termination
                        request of an existing session
                       Reference: Clauses 11.6.2 and 11.6.4
                       PICS Selection: Table A.4/5 AND Table A.4/6
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Select-TBA-Id-Rq with LinkID as used in the initial conditions and with validCalled AP
      Title
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
Verify that the IUT correctly identifies termination of an active session and an invalid Read-
TP/OBU/AL/IC/BI/24
                       Display-Type-Rq
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                                        Table A.4/7 AND Table A.4/8 AND Table A.5/6
                       PICS Selection:
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Read-Display-Type-Rq with LinkID as used previously and with validCalled AP Title
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/IC/BI/25
                         Verify that the IUT correctly identifies termination of an active session and an invalid Action-
                         Rq
                         Reference:
                                       Clauses 11.6.2 and 11.6.4
                         PICS Selection: Table A.4/35 AND Table A.4/36 AND Table A.5/14
                                                  Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Action-Rq with LinkID as used in the initial conditions and with validCalled AP Title
   then {
       the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

TP/OBU/AL/IC/BI/26	Verify that the IUT correctly handles invalid directive codes
	Reference: Clauses 11.3 and 11.6.1
	PICS Selection: Table A.3/3
	Initial conditions
with {	
the IUT being in t	the "initial state"
}	
	Expected behaviour
Repeat 100 times, by va	rrying invalid directive codes
ensure that {	
when {	
the IUT receives	Open-Rq "Invalid directive code number" Close-Rq with new private LinkID
}	
then {	
the IUT issues a	response with "Result" set to '15'H and "Diagnostic" set to '03'H
}	·
}	

```
TP/OBU/AL/IC/BI/27
                         Verify that the IUT correctly handles a too small number of directives in a single frame
                                       Clauses 11.5.1 and 11.6.1
                         Reference:
                         PICS Selection:
                                          Table A.3/1
                                                  Initial conditions
with {
      the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   when {
      the IUT receives Open-Rq | Read-Master-Core-Rq ("Offset"=0, "Length"=1) | Close-Rq with new private LinkID
      and with "Number of Directives" set to 4
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
```

```
TP/OBU/AL/IC/BI/28
                         Verify that the IUT handles a too big number of directives in a single frame and no support for
                         security level 1
                         Reference:
                                       Clauses 11.5.1 and 11.6.1
                         PICS Selection:
                                          Table A.3/1 AND NOT Table A.2/3
                                                  Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   when {
       the IUT receives an Open-Rq | Read-Appl-Core-Rq ("Offset"=47, "Length"=2) | Close-Rq with new private
      LinkID and with "Number of Directives" set to 1
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, but with no data, to show that
      only Open-Rq has been performed
   when {
      the IUT receives a valid Write-Appl-Core-Rq ("Offset"=47, "Length"=2) | Close-Rq with private LinkID as used
       previously and with "Number of Directives" set to 1
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, to show that the session is still
      active
   when {
      the IUT receives a Read-Appl-Core-Rq ("Offset"=47, "Length"=2) | Close-Rq with new private LinkID and with
       "Number of Directives" set to 2
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H and data as written previously
   when {
      the IUT receives a valid Close-Rq
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
      }
```

```
TP/OBU/AL/IC/BI/29
                       Verify that the IUT correctly identifies a Set-Password-Rq outside a session
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/37 AND Table A.4/38 AND Table A.5/5
                                                  Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H.
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Set-Password-Rq with LinkID as used in the initial conditions and with valid parameter
       values for "Length" and "Password"
   then {
       the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

```
TP/OBU/AL/IC/BI/30
                       Verify that the IUT correctly identifies a Use-Last-Password-Rq outside a session
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/39 AND Table A.4/40 AND Table A.5/5
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Use-Last-Password-Rg with LinkID as used in the initial conditions
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
      }
```

```
TP/OBU/AL/IC/BI/31
                       Verify that the IUT correctly identifies a Get-TBA-Random-Rq outside a session
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/42 AND Table A.4/43 AND Table A.5/5
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid Get-TBA-Random-Rq with LinkID as used in the initial conditions and with valid
      parameter value for "Length"
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
      }
```

5.3 Test purposes for road side units

5.3.1 Kernel Unit

```
Verify that the IUT can establish a connection with an OBU
TP/RSU/AL/KU/BV/01
                        Reference: Clauses 11.5.2, 11.5.3, 11.6.3 and 11.6.4
                        PICS Selection: Table B.4/1 AND Table B.4/2 AND Table B.4/3 AND Table B.4/4
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT is stimulated to send the sequence Open-Rq | Close-Rq with new private LinkID
   and the IUT issues a valid Open-Rq with a value of "Calling AP Title" as specified by the applicant, followed by a
   Close-Ra
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Close-Rs with "Result" set to '06'H and "Diagnostic" set to '00'H
      with LinkID having the same value as previously
   then {
      the IUT is not re-issuing the sequence Open-Rq | Close-Rq within the allowed time span
```

```
TP/RSU/AL/KU/BV/02
                        Verify that the IUT can establish a connection with a specific OBU
                        Reference: Clauses 11.5.4 and 11.6.5
                        PICS Selection: Table B.4/5 AND Table B.4/6
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT knows the value of "Responding AP Title" used by the tester
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Close-Rq with new private LinkID
   and with a given value of "Responding AP Title
   and the IUT issues a sequence of Open-Rq | Select-TBA-Id-Rq | Close-Rq with the correct value of "Responding
   AP Title"
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Close-Rs with "Result" set to '06'H and "Diagnostic" set to '00'H
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Close-Rq within the allowed time span
```

5.3.2 Read access

	·
TP/RSU/AL/RA/BV/01	Verify that the IUT can read specific fields of the master core
	Reference: Clauses 11.5.6 and 11.6.7
	PICS Selection: Table B.4/9 AND Table B.4/10
	Initial conditions
with {	
the IUT being in the "	initial state"
and the IUT is stimula	ated to send the sequence Open-Rq Read-Master-Core-Rq Close-Rq with new private
LinkID and with giver	n values of "Offset" and "Length" in Read-Master-Core-Rq
•	sequence of Open-Rq Read-Master-Core-Rq Close-Rq with correct values of "Offset" and
"Length"	·
}	
	Expected behaviour
ensure that {	•
when {	
the IUT receives a	a valid sequence Open-Rs Read-Master-Core-Rs Close-Rs with "Result" set to '06'H and
"Diagnostic" set to	o '00'H, and with valid read-data
}	
then {	
•	ssuing the sequence Open-Rg Read-Master-Core-Rg Close-Rg within the allowed time
span	
}	
)	

```
TP/RSU/AL/RA/BV/02
                         Verify that the IUT can read specific fields of the master record
                         Reference: Clauses 11.5.7 and 11.6.8
PICS Selection: Table B.4/11 AND Table B.4/12
                                                   Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT is stimulated to send the sequence Open-Rq | Get-Master-Record-Rq | Close-Rq with new private
    LinkID and with given values of "Offset" and "Length" in Get-Master-Record-Rq
    and the IUT issues a sequence Open-Rq | Get-Master-Record-Rq | Close-Rq with correct values of "Offset" and
    "Length"
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid sequence Open-Rs | Get-Master-Record-Rs | Close-Rs with "Result" set to '06'H and
       "Diagnostic" set to '00'H, and with valid read-data
   then {
       the IUT is not re-issuing the sequence Open-Rq | Get-Master-Record-Rq | Close-Rq within the allowed time
      span
      }
```

```
Verify that the IUT can read specific fields of the application core with no support of security
TP/RSU/AL/RA/BV/03
                         level 1
                        Reference:
                                       Clauses 11.5.8 and 11.6.9
                         PICS Selection: Table B.4/13 AND Table B.4/14 AND NOT Table B.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT is stimulated to send the sequence Open-Rq | Read-Application-Core-Rq | Close-Rq with new private
   LinkID and with given values of "Offset" and "Length" in Read-Application-Core-Rq
   and the IUT issues a sequence of Open-Rg | Read-Application-Core-Rg | Close-Rg with correct values of "Offset"
   and "Length"
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Read-Application-Core-Rs | Close-Rs with "Result" set to '06'H
      and "Diagnostic" set to '00'H and with valid read-data
   then {
      the IUT is not re-issuing the sequence Open-Rq | Read-Application-Core-Rq | Close-Rq within the allowed time
      span
      }
```

```
TP/RSU/AL/RA/BV/04
                        Verify that the IUT can read specific fields of the application record with no support of security
                         level 1
                        Reference:
                                      Clauses 11.5.13 and 11.6.14
                         PICS Selection:
                                          Table B.4/23 AND Table B.4/24 AND NOT Table B.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT is stimulated to send the sequence Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private
   LinkID and with known values of "Offset" and "Length" in Read-Appl-Record-Rg
   and the IUT issues a sequence Open-Rq | Read-Appl-Record-Rq | Close-Rq with valid values of "Offset" and
    "Lenath"
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Read-Appl-Record-Rs | Close-Rs with "Result" set to '06'H and
       "Diagnostic" set to '00'H, and with read-data
      }
   then {
      the IUT is not re-issuing the sequence Open-Rq | Read-Appl-Record-Rq | Close-Rq within the allowed time
      span
      }
```

5.3.3 Write access

TP/RSU/AL/WA/BV/01	Verify that the IUT can write specific fields of the application core and no support of security level 1				
	Reference: Clauses 11.5.9 and 11.6.10				
	PICS Selection: Table B.4/15 AND Table B.4/16 AND NOT Table B.2/3				
	Initial conditions				
with {					
the IUT being in the "ir	nitial state"				
and the IUT knows the	value of "Responding AP Title" used by the tester				
and the IUT is stimulated to send the sequence Open-Rq Select-TBA-Id-Rq Write-Appl-Core-Rq Close-Rq with					
new private LinkID and	d with known values of "Offset", "Length", "Responding AP Title" and write-data				
and the IUT issues a s	equence Open-Rq Select-TBA-Id-Rq Write-Appl-Core-Rq Close-Rq with valid values of				
"Offset", "Length", "Re	"Offset", "Length", "Responding AP Title" and write-data				
}					
	Expected behaviour				
ensure that {					
when {					
	the IUT receives a valid sequence Open-Rs Select-TBA-Id-Rs Write-Appl-Core-Rs Close-Rs with "Result" set to '06'H and "Diagnostic" set to '00'H				
}					
then {					
the IUT is not re-issuing the sequence Open-Rq Select-TBA-Id-Rq Write-Appl-Core-Rq Close-Rq within the allowed time span					
}					

```
TP/RSU/AL/WA/BV/02
                          Verify that the IUT can write to the current application record with immediate confirmation
                          and no support of security level 1
                          Reference: Clauses 11.5.14 and 11.6.15
                          PICS Selection: Table B.4/25 AND Table B.4/26 AND NOT Table B.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT knows the value of "Responding AP Title" used by the tester
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-
   Rq with known values of "Offset" and "Length", "Responding AP Title" and write-data
   and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq with valid
   values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Curr-Rs | Close-Rs with
       "Result" set to '06'H and "Diagnostic" set to '00'H
      }
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq
      within the allowed time span
      }
```

```
TP/RSU/AL/WA/BV/03
                         Verify that the IUT can write to the next application record with immediate confirmation
                                      Clauses 11.5.16 and 11.6.17
                         Reference:
                         PICS Selection: Table B.4/29 AND Table B.4/30 AND NOT Table B.2/1
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT knows the value of "Responding AP Title" used by the tester
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Rq | Close-
   Rq with known values of "Offset" and "Length", "Responding AP Title" and write-data
   and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Rq | Close-Rq with correct
   values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Next-Rs | Close-Rqswith
       "Result" set to '06'H and "Diagnostic" set to '00'H
      }
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Rq | Close-Rq
      within the allowed time span
      }
```

```
TP/RSU/AL/WA/BV/04
                         Verify that the IUT can write to the current application record with deferred confirmation and
                         no support for security level 1
                         Reference: Clauses 11.5.15 and 11.6.16
                         PICS Selection:
                                          Table B.4/27 AND Table B.4/28 AND NOT Table B.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT knows the value of "Responding AP Title" used by the tester
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq |
   Close-Rq with known values of "Offset" and "Length", "Responding AP Title" and write-data
   and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Close-Rq with
   valid values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Curr-Conf-Rs | Close-Rs
      with "Result" set to '06'H and "Diagnostic" set to '00'H
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Close-
      Rg within the allowed time span
```

```
TP/RSU/AL/WA/BV/05
                        Verify that the IUT can write to the next application record with deferred confirmation
                                      Clauses 11.5.17 and 11.6.18
                        Reference:
                         PICS Selection: Table B.4/31 AND Table B.4/32 AND NOT Table B.2/1
                                                 Initial conditions
with {
   the IUT being in the "initial state"
    and the IUT knows the value of "Responding AP Title" used by the tester
  and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq |
  Close-Rq with known values of "Offset" and "Length", "Responding AP Title" and write-data
  and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Close-Rq with valid
  values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Next-Conf-Rs | Close-Rs
      with "Result" set to '06'H and "Diagnostic" set to '00'H
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Close-
      Rg within the allowed time span
```

```
TP/RSU/AL/WA/BV/06
                        Verify that the IUT can write to the application core with deferred confirmation
                         Reference: Clauses 11.5.9 and 11.6.10
                         PICS Selection: Table B.4/17 Table B.4/18 AND NOT Table B.2/1
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   the IUT knows the value of "Responding AP Title" used by the tester
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Conf-Rq | Close-Rq
   with known values of "Offset", "Length" and "Responding AP Title"
   and the IUT issues a sequence of Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Conf-Rq | Close-Rq with valid
   values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Core-Conf-Rs | Close-Rs with
       "Result" set to '06'H and "Diagnostic" set to '00'H
      }
   then {
      the IUT is not re-issuing the sequence Open-Rg | Select-TBA-Id-Rg | Write-Appl-Core-Conf-Rg | Close-Rg
      within the allowed time span
      }
```

5.3.4 Optional functionality

TP/RSU/AL/OF/BV/01	Verify that the IUT can issue a Read-Display-Type-Rq			
	Reference: Clauses 11.5.5 and 11.6.6			
	PICS Selection: Table B.4/7 AND Table B.4/8 AND Table B.9/6			
Initial conditions				
with {				
the IUT being in the	"initial state"			
and the IUT is stimulated to send the sequence Open-Rq Read-Display-Type-Rq Close-Rq				
}	}			
Expected behaviour				
ensure that {				
when {				
the IUT receives	the IUT receives a valid sequence Open-Rs Read-Display-Type-Rs Close-Rs with "Result" set to '06'H and			
"Diagnostic" set to	"Diagnostic" set to '00'H, and indicating a valid display type			
}				
then {				
verify that the IUT has correctly received the sequence				
}				
}				

TP/RSU/AL/OF/BV/02	Verify that the IUT accepts display type '41'H as response to Read-Display-Type-Rq			
	Reference: Clauses 11.5.5 and 11.6.6			
	PICS Selection: Table B.4/7 AND Table B.4/8 AND Table B.9/6			
Initial conditions				
with {				
the IUT being in the "i	initial state"			
Ü	ated to send the sequence Open-Rq Read-Display-Type-Rq Close-Rq			
}	the field is still dialog to solid the sequence open right read Bisplay Type right close right			
Expected behaviour				
ensure that {	F			
when {				
,	valid sequence Open-Rq Read-Display-Type-Rq Close-Rq with "Result" set to '06'H and			
	"Diagnostic" set to '00'H, and indicating the display type '41'H			
l	corr, and matering the display type 1111			
then {				
•	eving the appropriate Orace De I Dond Display Time De I Close De within the allowed time			
the IUT is not re-issuing the sequence Open-Rq Read-Display-Type-Rq Close-Rq within the allowed time				
span.				
}				
}				

```
TP/RSU/AL/OF/BV/03

| Verify that the IUT accepts display type '4E'H as response to Read-Display-Type-Rq
| Reference: Clauses 11.5.5 and 11.6.6
| PICS Selection: Table B.4/7 AND Table B.4/8 AND Table B.9/6
| Initial conditions
| Initial conditions
| With {
| the IUT being in the "initial state" | and the IUT is stimulated to send the sequence Open-Rq | Read-Display-Type-Rq | Close-Rq
| }
| Expected behaviour
| ensure that {
| when {
| the IUT receives a valid sequence Open-Rq | Read-Display-Type-Rq | Close-Rq with "Result" set to '06'H and "Diagnostic" set to '00'H, and indicating the display type '4E'H
| }
| then {
| the IUT is not re-issuing the sequence Open-Rq | Read-Display-Type-Rq | Close-Rq within the allowed time span | }
| }
```

```
TP/RSU/AL/OF/BV/04
                        Verify that the IUT can issue a Action-Rg (covers also Write-Data-To-External-Rg and Read-
                        Data-from-External-Rg)
                                      Clauses 11.5.11, 11.5.12, 11.5.19, 11.6.12, 11.6.13 and 11.6.20
                        Reference:
                        PICS Selection: Table B4/19 AND Table B.4/20 AND Table B.4/21 AND Table B.4/22 B.4/35
                        AND Table B.4/36 AND Table B.9/13
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT is stimulated to send the sequence Open-Rq | Action-Rq | Close-Rq with known Action-Rq parameter
   as specified by the applicant
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Action-Rs | Close-Rs with "Result" set to '06'H and "Diagnostic"
      set to '00'H and with valid Action-Rs parameter
   then {
      verify that the IUT has correctly received the sequence
```

```
TP/RSU/AL/OF/BV/05
                        Verify that the IUT accepts a valid Action-Rs
                        Reference:
                                     Clauses 11.5.19 and 11.6.20
                        PICS Selection: Table B.4/35 AND Table B.4/36 AND Table B.9/13
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT is stimulated to send the sequence Open-Rq | Action-Rq | Close-Rq with known Action-Rq parameter
   as specified by the applicant
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Action-Rs | Close-Rs with "Result" set to '06'H and "Diagnostic"
      set to '00'H and with valid Action-Rs parameter
   then {
      the IUT is not re-issuing the sequence Open-Rq | Read-Display-Type-Rq | Close-Rq within the allowed time
      span
      }
```

```
TP/RSU/AL/OF/BV/06
                         Verify that the IUT can issue a Set-UIF-Rq
                         Reference:
                                       Clauses 11.5.18, and 11.6.19
                                          Table B4/33 AND Table B.4/34
                         PICS Selection:
                                                  Initial conditions
with {
      the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   when {
      the IUT is stimulated to send Open-Rq | Set-UIF-Rq | Set-UIF-Rq | Close-Rq with new private LinkID. The
          parameters for the two Set-UIF-Rq primitives shall be:
           "Video" set to '00'H in both Set-UIF-Rq directives
           "Audio" set to '01'H in the first Set-UIF-Rg directive, 'and to 02'H in the second Set-UIF-Rg directive
           "Time" set to 1
           "Count" set to 1 in the first Set-UIF-Rq directive, and to 2 in the second Set-UIF-Rq directive
   then {
      verify reception of Open-Rq | Set-UIF-Rq | Set-UIF-Rq | Close-Rq with valid values for all parameters
      }
```

5.3.5 Security

```
TP/RSU/AL/SC/BV/01
                        Verify that the IUT can issue a Set-Password-Rq
                        Reference: Clauses 11.5.20 and 11.6.21
                        PICS Selection: Table B.4/37 AND Table B.4/38
                                                 Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT is stimulated to send the sequence Open-Rq | Set-Password-Rq with new private LinkID and with valid
    value of "Length" in Set-Password-Rq
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Set-Password -Rs with "Result" set to '06'H and "Diagnostic" set
      to '00'H
   then {
      verify that the IUT has correctly received the sequence
```

```
TP/RSU/AL/SC/BV/02
                        Verify that the IUT can issue a Use-Last-Password-Rq
                        Reference:
                                     Clauses 11.5.21 and 11.6.22
                        PICS Selection: Table B.4/39 AND Table B.4/40
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT is stimulated to send the sequence Open-Rq | Use-Last-Password-Rq with new private LinkID
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Use-Last-Password -Rs with "Result" set to '06'H and "Diagnostic"
      set to '00'H
      }
   then {
      verify that the IUT has correctly received the sequence
      }
```

```
TP/RSU/AL/SC/BV/03
                          Verify that the IUT can issue a Get-TBA-Random-Rq
                          Reference:
                                         Clauses 11.5.22 and 11.6.23
                          PICS Selection: Table B.4/41 AND Table B.4/42
                                                     Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT is stimulated to send the sequence Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with valid value of "Length" in Get-TBA-Random-Rq
                                                   Expected behaviour
ensure that {
   when {
       the IUT receives a valid sequence Open-Rs | Get-TBA-Random-Rs | Close-Rs with "Result" set to '06'H and
       "Diagnostic" set to '00'H and with a random number as data
   then {
       verify that the IUT has correctly received the sequence
```

TP/RSU/AL/SC/BV/04	Verify that the IUT can issue a Set-Credential-Rq with support for the EETS profile		
	Reference: Clauses 11.5.23 and 11.6.24 and D.2.4.3		
	PICS Selection: Table B.2/3 AND Table B.4/43 AND Table B.4/44 AND Table B.9/8 AND		
	Table B.9/9 AND Table B.9/11		
	Initial conditions		
with {			
the IUT being in the	"initial state"		
	lated to send the sequence Open-Rq Get-TBA-Random-Rq Get-Master-Record-Rq Close-		
	LinkID and with valid value of "Length" in Get-TBA-Random-Rq and values of '10'D for "Offset"		
and '2'D for "Length	in the Get-Master-Record-Rq in order to get a value corresponding to AC_CR-KeyReference		
}			
	Expected behaviour		
ensure that {			
when {			
	a valid sequence Open-Rs Get-TBA-Random-Rs Close-Rs with "Result" set to '06'H and		
"Diagnostic" set to	o '00'H and with a random number as data and the requested data from the master record		
}			
then {			
	ted to compute its credentials according to the data received and to issue a sequence		
	Open-Rq Set-Credential-Rq Close-Rq with values for "Length" and "Credentials" according to the computed		
	credentials based on the random number received after the Get-TBA-Random-Rq and the data previously		
transmitted			
}			
}			
Final Conditions			
ensure that {			
the IUT has correctly computed its credentials.			
}			

```
TP/RSU/AL/SC/BV/05
                        Verify that the IUT can issue a Get-Credential-Rq with support for the EETS profile
                                      Clauses 11.5.24 and 11.6.25
                        Reference:
                        PICS Selection: Table B.2/2 AND Table B.4/45 AND Table B.4/46 AND Table B.9/8 AND
                        Table B.9/10
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT is stimulated to send the sequence Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID
   and with value '0'D for "Displacement" and '14'D for "Length" in Read-Appl-Core-Rg in order to read the value of
   PaymentMeans attribute
   and
                                               Expected behaviour
ensure that {
      the IUT receives a response message with "Result" set to '06'H and "Diagnostic" set to '00' and the data read
      from the application core
   then {
      the IUT is stimulated to compute credentials according to the data received, a randomly generated number of
      4 octets and one of the available keys Open-Rq | Get-Credential-Rq | Close-Rq with the same values for
      "Offset" and "Length" as used in the previously issued Read-Appl-Core-Rq, with values of '4'D for "Nonce-len"
      parameter and "Nonce" corresponding to the generated random number and with a value for the "Key"
      parameter indicating the key used for computation of the credentials
                                                 Final Conditions
ensure that {
      the IUT has correctly computed the credentials
```

TP/RSU/AL/SC/BV/06	Verify that the IUT can read specific fields of the application core with support of			
	security level 1			
	Reference: Clauses 11.5.8 and 11.6.9 and D.2.4.3			
	PICS Selection: Table B.4/13 AND Table B.4/14 AND Table B.2/3			
Initial conditions				
with {				
the IUT being in the "initial sta	ate"			
and Test Purpose TP/RSU/A	L/SC/BV/04 successfully executed			
and the IUT is stimulated to send the sequence Open-Rq Read-Application-Core-Rq Close-Rq with the same				
value of LinkID used previously and with given values of "Offset" and "Length" in Read-Application-Core-Rq				
	and the IUT issues a sequence of Open-Rq Read-Application-Core-Rq Close-Rq with correct values of "Offset"			
and "Length"				
}				
	Expected behaviour			
ensure that {	'			
when {				
•	equence Open-Rs Read-Application-Core-Rs Close-Rs with "Result" set to '06'H			
	and "Diagnostic" set to '00'H and with valid read-data			
}				
then {				
,	ne sequence Open-Rg Read-Application-Core-Rg Close-Rg within the allowed time			
span				
) \				
1				
17				

```
TP/RSU/AL/SC/BV/07
                                     Verify that the IUT can read specific fields of the application record with support
                                    of security level 1
                                    Reference:
                                                  Clauses 11.5.13 and 11.6.14 and D.2.4.3
                                    PICS Selection: Table B.4/23 AND Table B.4/24 AND Table B.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and Test Purpose TP/RSU/AL/SC/BV/04 successfully executed
   and the IUT is stimulated to send the sequence Open-Rq | Read-Appl-Record-Rq | Close-Rq with the same value
   of LinkID used previously and with known values of "Offset" and "Length" in Read-Appl-Record-Rg
   and the IUT issues a sequence Open-Rq | Read-Appl-Record-Rq | Close-Rq with valid values of "Offset" and
'Length"
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Read-Appl-Record-Rs | Close-Rs with "Result" set to '06'H and
       "Diagnostic" set to '00'H, and with read-data
   then {
      the IUT is not re-issuing the sequence Open-Rq | Read-Appl-Record-Rq | Close-Rq within the allowed time
```

```
TP/RSU/AL/SC/BV/08
                           Verify that the IUT can write specific fields of the application core with support of security
                          level 1
                                        Clauses 11.5.9 and 11.6.10 and D.2.4
                          Reference:
                          PICS Selection: Table B.4/15 AND Table B.4/16 AND Table B.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and Test Purpose TP/RSU/AL/SC/BV/04 successfully executed
   and the IUT is stimulated to send the sequence Open-Rg | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Close-Rg with
   the same LinkID as used previously and with known values of "Offset", "Length", "Responding AP Title" and write-
   data
   and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Close-Rq with valid values of
    "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Core-Rs | Close-Rs with "Result"
      set to '06'H and "Diagnostic" set to '00'H
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Close-Rq within the
      allowed time span
      }
```

```
Verify that the IUT can write to the current application record with immediate confirmation
 TP/RSU/AL/SC/BV/09
                          and support of security level 1
                                        Clauses 11.5.14 and 11.6.15 and D.2.4
                          Reference:
                                           Table B.4/25 AND Table B.4/26 AND Table B.2/3
                          PICS Selection:
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and Test Purpose TP/RSU/AL/SC/BV/04 successfully executed
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-
   Rg with the same LinkID as used previously and with known values of "Offset" and "Length". "Responding AP Title"
   and write-data
   and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq with valid
   values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Curr-Rs | Close-Rs with
       "Result" set to '06'H and "Diagnostic" set to '00'H
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq
      within the allowed time span
      }
```

```
TP/RSU/AL/SC/BV/10
                         Verify that the IUT can write to the next application record with immediate confirmation and
                         with support of security level 1
                                      Clauses 11.5.16 and 11.6.17 and D.2.4
                         Reference:
                         PICS Selection: Table B.4/29 AND Table B.4/30 AND Table B.2/3 AND NOT Table B.2/1
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and Test Purpose TP/RSU/AL/SC/BV/04 successfully executed
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Rq | Close-
   Rq with known values of "Offset" and "Length", "Responding AP Title" and write-data
   and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Rq | Close-Rq with correct
   values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Next-Rs | Close-Rqswith
       "Result" set to '06'H and "Diagnostic" set to '00'H
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Rq | Close-Rq
      within the allowed time span
```

```
TP/RSU/AL/SC/BV/11
                         Verify that the IUT can write to the current application record with deferred confirmation and
                         with support for security level 1
                         Reference:
                                       Clauses 11.5.15 and 11.6.16 and D.2.4
                         PICS Selection:
                                          Table B.4/27 AND Table B.4/28 AND Table B.2/3
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and Test Purpose TP/RSU/AL/SC/BV/04 successfully executed
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq |
   Close-Rg with known values of "Offset" and "Length". "Responding AP Title" and write-data
   and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Close-Rq with
   valid values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Curr-Conf-Rs | Close-Rs
      with "Result" set to '06'H and "Diagnostic" set to '00'H
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Close-
      Rq within the allowed time span
```

```
TP/RSU/AL/SC/BV/12
                        Verify that the IUT can write to the next application record with deferred confirmation and
                         support of security level 1
                         Reference: Clauses 11.5.17 and 11.6.18
                        PICS Selection: Table B.4/31 AND Table B.4/32 AND Table B.2/3 AND NOT Table B.2/1
                                                 Initial conditions
with {
   the IUT being in the "initial state"
   and Test Purpose TP/RSU/AL/SC/BV/04 successfully executed
  and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq |
  Close-Rq with known values of "Offset" and "Length", "Responding AP Title" and write-data
  and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Close-Rq with valid
  values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Next-Conf-Rs | Close-Rs
      with "Result" set to '06'H and "Diagnostic" set to '00'H
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Close-
      Rg within the allowed time span
```

```
TP/RSU/AL/SC/BV/13
                         Verify that the IUT can write to the application core with deferred confirmation and support of
                         security level 1
                                       Clauses 11.5.9 and 11.6.10
                         Reference:
                         PICS Selection: Table B.4/17 Table B.4/18 AND Table B.2/3 AND NOT Table B.2/1
                                                 Initial conditions
with {
    the IUT being in the "initial state"
    and Test Purpose TP/RSU/AL/SC/BV/04 successfully executed
    and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Conf-Rq | Close-Rq
    with known values of "Offset", "Length" and "Responding AP Title"
    and the IUT issues a sequence of Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Conf-Rq | Close-Rq with valid
    values of "Offset", "Length", "Responding AP Title" and write-data
                                               Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Core-Conf-Rs | Close-Rs with
       "Result" set to '06'H and "Diagnostic" set to '00'H
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Conf-Rq | Close-Rq
      within the allowed time span
```

History

Document history				
V1.1.1	March 2010	Publication		
V1.2.1	February 2012	Publication		
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