# ETSI TS 102 708-2-2 V1.2.1 (2012-02)



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

Reference RTS/ITS-0020032

Keywords DSRC, application, layer 7, ITS, testing, protocol, TSS&TP

#### **ETSI**

#### 650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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# Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Intelligent Transport System (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].

# 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 this test specification is to provide a basis for conformance tests for DSRC-HDR equipment specified in [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

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 reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <a href="http://docbox.etsi.org/Reference">http://docbox.etsi.org/Reference</a>.

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# 2.1 Normative references

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 (1991): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".

# 2.2 Informative references

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 purpose of the present document, the terms and definitions given in [1] and [3] apply.

# 3.2 Abbreviations

For the purpose of the present document, the abbreviations given in [1] and [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.

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 beh	aviour:

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, 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>/&lt;</sut>	<a>layer&gt;/<group>/</group></a>	<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>
use	ests specified in the present document are app d to have a consistent TP reference covering al of this multi-part deliverable.		

# 5.1.3 Sources of TP definitions

All TPs are specified according to the base standard 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 ES 200 674-1 [1]. All references to PICS are indicating tables in part 2 sub-part 1 [2] of this multi-part deliverable.

#### 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 |.

EXAMPLE: Concatenation of Open-Rq with Close-Rq is presented as Open-Rq | Close-Rq, with Open-Rq sent first.

# 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
specified by the a } then { the IUT issues a	a valid Open-Rq with new private LinkID and an "AP Invocation Identifier" having a valid value as applicant. response with "Result" set to '06'H and "Diagnostic" set to '00'H and with "AP Invocation 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 {	
	"initial state" eceived a valid Open-Rq with new private LinkID and a valid "AP Invocation Identifier" 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 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

}

<b>TD</b> /	
IP/	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
ens	ure that {
	when {
	the IUT receives a valid Open-Rg   Close-Rg 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
	}
l.	,
ſ	

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 r	eceived 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         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         Initial conditions         with {
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
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
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
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
and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H } Expected behaviour
} 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 '06'H and "Diagnostic" set to '05'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		
	Reference: Clauses 11.5.4, 11.6.1, 11.6.2, 11.6.5 and D.2.2		
	PICS Selection: Table A.4/5 AND Table A.4/6 AND Table A.2/1		
	Initial conditions		
with {			
the IUT being in the	e "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 {	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 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" noted previously

} then {

the IUT does not respond OR the IUT responds with "Result" set to '15'H and "Diagnostic" set to '05'H.

}

TP/OBU/AL/KU/BI/04	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" (diiferent from		

valid values specified by the applicant)

} then {

}

the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '06'H

# 5.2.2 Read access

### 5.2.2.1 Valid behaviour

TP/OBU/AL/RA/BV/01	Verify that the IUT can manage Open-Rq   Read-Master-Core-Rq   Close-Rq
	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
with {	
the IUT being in th	ne "initial state"
}	
	Expected behaviour
ensure that {	
repeat with different p	rivate LinkID and different combinations of "Offset" and "Length" parameters in order to cover
the whole Master Cor	<b>0</b>
when {	-
the IUT receives a	a valid Open-Rq   Read-Master-Core-Rq   Close-Rq with new private LinkID and with valid
combinations of "C	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 re	esponse with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Read-
Master-Core-Rs" a	as specified by the applicant for the selected range
}	
<b>b</b>	
v	

TP/OBU/AL/RA/BV/02	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		
with {			
the IUT being in the	ne "initial state"		
}			
	Expected behaviour		
ensure that {	ensure that {		
repeat with different of	repeat with different combinations of "Offset" and "Length" parameters in order to cover the whole Master Core.		
when {			
the IUT receives a	the IUT receives a valid Open-Rq   Read-Master-Core-Rq   Close-Rq with broadcast LinkID and with valid		
combinations of "	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 '06'H and "Diagnostic" set to '00'H, and with the data of "Read-			
Master-Core-Rs"	Master-Core-Rs" as specified by the applicant for the selected range		
}	· · · · · · · · · · · · · · · · · · ·		
}			

TP/OBU/AL/RA/BV/03	Verify that the IUT can manage Open-Rq   Get-Master-Record-Rq   Close-Rq
	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 the	ə "initial state"
}	
<u>,</u>	Expected behaviour
ensure that {	<b>.</b>
•	t private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
the whole Master R	
when {	
	s a valid Open-Rg   Get-Master-Record-Rg   Close-Rg with new private LinkID and with valid
	f "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	
	a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Get-
Master-Record-	a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Get- Rs" as specified by the applicant for the selected range
Master-Record- }	<b>6</b>

TP/OBU/AL/RA/BV/04	Verify that the IUT can manage Open-Rq   Read-Appl-Core-Rq   Close-Rq
	Reference: Clauses 11.5.8, 11.6.2 and 11.6.9
	PICS Selection: Table A.4/13 AND Table A.4/14
	Initial conditions
with {	
the IUT being in the "ir	nitial state"
}	
	Expected behaviour
the whole Application when { the IUT receives a	rivate LinkID and different combinations of "Offset" and "Length" parameters in order to cover Core. valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with valid bffset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole application
	esponse with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Read- ts" as specified by the applicant for the selected range

TP/OBU/AL/RA/BV/05 Verify that the IUT can manage Read-Appl-Core-Rq with broadcast L	inkld
Reference: Clauses 11.5.8, 11.6.2 and 11.6.9	
PICS Selection: Table A.4/13 AND Table A.4/14	
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.
when {	
the IUT receives a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with broadcast Linkl	D and with valid
combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole applicatior	
core.	
}	
then {	
the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and w	ith the data of "Read-
Application-Core-Rs" as specified by the applicant for the selected range	
u	

TP/OBU/AL/RA/BV/06 Verify that the IUT can manage Open-Rq   Read-Appl-Record-Rq   Close-Rq		
Reference: Clauses 11.5.13, 11.6.2 and 11.6.14		
PICS Selection: Table A.4/23 AND Table A.4/24		
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-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-		
and the needed a response man result set to set and Blaghould bot to soft, and man and add of riska		

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-Rq with broadcast LinkId Clauses 11.5.13, 11.6.2 and 11.6.14 Reference: PICS Selection: Table A.3/23 AND Table A.3/24 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 Open-Rq | Read-Appl-Record-Rq | Close-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 }

#### 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		
with {			
the IUT being in th	e "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-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 '02'H			
}	-		
}			

# 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
	Reference: Clauses 11.5.9, 11.6.2, 11.6.10
	PICS Selection: Table A.4/15 AND Table A.4/16 AND NOT Table A.2/1
	Initial conditions
repeat with different p the whole Application	private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
with {	
the IUT being in the	ne "initial state"
combinations of "Offs	eceived a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with valid set" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole application
core.	
"Called AP Title" and	ssued a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Note the value of I the data received
}	Expected behaviour
ensure that {	· · ·
when {	
and with the same	a valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Rq   Close-Rq with new private LinkID e values of "Offset" and "Length" as in the previous Read-Appl-Core-Rq in order to write different position as the data previously received.
then {	
	response with "Result" set to '06'H and "Diagnostic" set to '00'H.
}	
	Final Conditions
ensure that {	
when {	
	a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with the same and "Length" as used previously and with "Responding AP Title" set equal to the value of noted previously.
}	
then {	
the IUT issues a r	response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are lata sent previously.

FP/OBU/AL/WA/BV/02	Verify that the IUT can manage Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Rq   Close-Rq with the restrictions due to EETS profile
	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
repeat with different	private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
the whole Application	
with {	
the IUT being in t	the "initial state"
and the IUT having	received a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with ecimal and "Length" set to 28 Decimal in Read-Appl-Core-Rq in order to retrieve the first writable
and the IUT having i "Called AP Title" and }	issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Note the value of d the data received
	Expected behaviour
ensure that {	
when {	
private LinkID an "Responding AP	a valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Rq   Read-Appl-Core   Close-Rq with new ad with the same values of "Offset" and "Length" as in the previous Read-Appl-Core-Rq and with Title" set equal to the value of "Called AP Title" noted previously in order to write data to the being different to the data previously received and subsequently retrieve data from the same oplication 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 data sent previously.
}	

TP/OBU/AL/WA/BV/03	Verify that the IUT can manage Write-Appl-Core-Rq   Read-Appl-Core-Rq with no restrictions
	due to the EETS profile
	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
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.

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.

}

TP/OBU/AL/WA/BV/04	Verify that the IUT can manage multiple Write-Appl-Core-Rg in a single frame with no
	restrictions due to the EETS profile
	Reference: Clauses 11.5.9, 11.6.2 and 11.6.10
	PICS Selection: Table A.4/15 AND Table A.4/16 AND NOT Table A.2/1
	Initial conditions
with {	<i>«</i> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>
	"Initial state" s a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with "Offset" set ' set to the maximum length D provided by the applicant in order to retrieve the whole application
	ssued a response with "Result" set to '06'H and "Diagnostic" set to '00'H.
J	Expected behaviour
ensure that {	
Core-Rq("Offset": Rq("Offset"=0, "L	a valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Rq("Offset"=0, "Length"=A)   Write-Appl- =A, "Length"=B)   Write-Appl-Core-Rq("Offset"=A+B, "Length"=C)   Read-Appl-Core- ength"=A+B+C=D)   Close-Rq with new private LinkID and with "Responding AP Title" set to the AP Title" sent in the initial conditions.
	response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are data sent previously.
TP/OBU/AL/WA/BV/05	Verify that the IUT can manage Write-Appl-Core-Conf-Rq
	Reference: Clauses 11.5.10, 11.6.2 and 11.6.11
	PICS Selection: Table A.4/17 AND Table A.4/18
with {	Initial conditions
combinations of "Off	the "initial state" received a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with valid set" and "Length" in Read-Appl-Core-Rq issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
J	Expected behaviour
LinkID and with the	a valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Conf-Rq   Close-Rq with new private he same value of "Offset" and "Length" as used in the initial conditions and with "Responding AP alue of "Called AP Title" as sent in the initial conditions.
} then { the IUT issues a i }	response with "Result" set to '06'H and "Diagnostic" set to '00'H.
1	Final Conditions
ensure that {	
when { the IUT receives and with the sam value of "Called A }	a valid Open-Rq   Select-TBA-Id-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID e values of "Offset" and "Length" as used previously and with "Responding AP Title" set to the AP Title" as sent in the initial conditions.
then { the IUT issues a n the same as the c	response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are data sent previously.

TP/OBU/AL/WA/BV/06	Varify that the ULT can manage Write Appl Record Curr Pa
	Verify that the IUT can manage Write-Appl-Record-Curr-Rq Reference: Clauses 11.5.14, 11.6.2 and 11.6.15
	PICS Selection: Table A.4/25 AND Table A.4/26
the whole Application	rivate LinkID and different combinations of "Offset" and "Length" parameters in order to cover Record.
with {	
the IUT being in the "i	
valid combinations of	eceived a valid Open-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID and with "Offset" and "Length" in Read-Appl-Record-Rq
and the IUT having is	sued a response with "Result" set to '06'H and "Diagnostic" set to '00'H.
J	Expected behaviour
ensure that {	
when {	
LinkID and with the	valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Curr-Rq   Close-Rq with new private e same value of "Offset" and "Length" as received in the initial conditions and with "Responding e value of "Called AP Title" as sent in the initial conditions.
}	
then { the IUT issues a re	esponse with "Result" set to '06'H and "Diagnostic" set to '00'H.
}	
	Final Conditions
ensure that {	
when {	
the IUT receives a and with the same	valid Open-Rq   Select-TBA-Id-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID values of "Offset" and "Length" as used previously and with "Responding AP Title" set equal to d AP Title" noted previously.
then {	
	esponse with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are
	ata sent previously.
}	
,	
1	
TP/OBU/AL/WA/BV/07	Verify that the IUT can manage Write-Appl-Record-Curr-Rq   Read-Appl-Record-Rq
	Reference: Clauses 11 5 14, 11 6 2 and 11 6 15

Re	eference: Clauses 11.5.14, 11.6.2 and 11.6.15
PI	CS Selection: Table A.4/23 AND Table A.4/24 AND Table A.4/25 AND Table A.4/26
	Initial conditions
repeat with different priv the whole Application Re	rate LinkID and different combinations of "Offset" and "Length" parameters in order to cover ecord.
with {	
the IUT being in the "ini	tial state"
S	eived a valid Open-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID and with Dffset" and "Length" in Read-Appl-Record-Rq
and the IUT having issue	ed a response with "Result" set to '06'H and "Diagnostic" set to '00'H
}	
	Expected behaviour
ensure that {	
when {	
Close-Rq with new p	alid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Curr-Rq   Read_Appl-Record-Rq   private LinkID and with the same values of "Offset" and "Length" as in the initial conditions and P Title" set to the value of "Called AP Title" as sent in the initial conditions.
}	
then {	
the IUT issues a res the same as the data	ponse with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are a sent previously.
}	

	Verify that the IUT can manage Write-Appl-Record-Curr-Conf-Rq Reference: Clauses 11.5.15, 11.6.2 and 11.6.16
	PICS Selection: Table A.4/27 AND Table A.4/28
	Initial conditions
	private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
the whole Application	I Record.
with {	"initial atota"
the IUT being in the	received a valid Open-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID and with
	f "Offset" and "Length" in Read-Appl-Record-Rq
	ssued a response with "Result" set to '06'H and "Diagnostic" set to '00'H.
and the IUT having is	ssued a response with Result set to 06 H and Diagnostic set to 00 H.
}	Expected behaviour
ensure that {	
when {	
	a valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Curr-Conf-Rq   Close-Rq with new
	d with the same value of "Offset" and "Length" as used in the initial conditions and with
	Title" set to the value of "Called AP Title" as sent in the initial conditions.
	The set to the value of Galled AT The as sent in the initial conditions.
then {	
	response with "Result" set to '06'H and "Diagnostic" set to '00'H.
1	esponse with Result set to obtraine Diagnostic set to obtr.
<i>}</i>	
	Final Conditions
ensure that {	
when {	
	a valid Open-Rq   Select-TBA-Id-Rq   Read-AppI-Record-Rq   Close-Rq with new private LinkID
	e values of "Offset" and "Length" as used previously and with "Responding AP Title" set equal to
	ed AP Title" noted previously.
then {	
then { the IUT issues a r	response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received an
the IUT issues a r	response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are tata sent previously
the IUT issues a r	response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received and data sent previously.
the IUT issues a r	

<b>IP/OBU/AL/WA/BV/09</b> Verify that the IUT can manage write-Appi-Record-Curr-Conf-Rq   Read-Appi-Record-Rq
Reference: Clauses 11.5.15, 11.6.2 and 11.6.16
PICS Selection: 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.
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.
}
}

TP/OBU/AL/WA/BV/10	Verify that the IUT can manage multiple Write-Appl-Record-Curr-Conf-Rq in a single frame		
	Reference: Clauses 11.5.15, 11.6.2 and 11.6.16		
	PICS Selection: Table A.4/27 AND Table A.4/28		
with (	Initial conditions		
with { the IUT being in the	"initial state"		
	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 is	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-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=D)   Close-Rq with new private LinkID and with			
	Title" set to the value of "Called AP Title" as sent in the initial conditions.		
}			
then {			
	response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are		
the same as the c	data sent previously.		
}			
,			
TP/OBU/AL/WA/BV/11	Verifie that the ULT and means an Meite Angl Descend Next Dr		
IP/UDU/AL/WA/DV/II	Verify that the IUT can manage Write-Appl-Record-Next-Rq Reference: Clauses 11.5.16, 11.6.2 and 11.6.17		
	PICS Selection: Table A.4/29 AND Table A.4/30		
	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" received a valid Open-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID and with		
	f "Offset" and "Length" in Read-Appl-Record-Rq		
	ssued a response with "Result" set to '06'H and "Diagnostic" set to '00'H		
}			
	Expected behaviour		
ensure that { when {			
	a valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Rq   Close-Rq with new private		
	he same value of "Offset" and "Length" as used in the initial conditions and with "Responding AP		
	alue of "Called AP Title" sent in the initial conditions and "Data" set to '0'B in order to write all-		
zero data to the n	next application record, which by this command will become the current record.		
} thon (			
then { the IUT issues a i	response with "Result" set to '06'H and "Diagnostic" set to '00'H		
}			
}			
	Final Conditions		
ensure that { when {			
	a valid Open-Rq   Select-TBA-Id-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID		
	same value of "Offset" and "Length" as used previously and with "Responding AP Title" set		
	e of "Called AP Title" used previously in order to retrieve data from the application record.		
}			
then {	response with "Result" set to '06'H and "Disgnastic" set to '00'H. Marily that the data reserved are		
identical to those	response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are sent previously		
}			
}			

TP/OBU/AL/WA/BV/12	Verify that the IUT can manage Write-Appl-Record-Next-Rq
	Reference: Clauses 11.5.16, 11.6.2 and 11.6.17
	PICS Selection: Table A.4/29 AND Table A.4/30
	Initial conditions
repeat with different p the whole Application	rivate LinkID and different combinations of "Offset" and "Length" parameters in order to cover Record.
with {	
the IUT being in the "	
	eceived a valid Open-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID and with "Offset" and "Length" in Read-Appl-Record-Rq
and the IUT having is }	sued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
	Expected behaviour
LinkID and with th Title" set to the va data to the next ap } then {	valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Rq   Close-Rq with new private e same value of "Offset" and "Length" as used in the initial conditions and with "Responding AP lue of "Called AP Title" sent in the initial conditions and "Data" set to '1'B in order to write all-one oplication record, which by this command will become the current record.
	Final Conditions
and with with the s equal to the value } then { the IUT issues a re	valid Open-Rq   Select-TBA-Id-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID same value of "Offset" and "Length" as used previously and with "Responding AP Title" set of "Called AP Title" noted previously in order to retrieve data from the application record. esponse with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are sent previously

10 }

TP/OBU/AL/WA/BV/13 Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rq
Reference: Clauses 11.5.17, 11.6.2 and 11.6.18
PICS Selection: Table A.4/31 AND Table A.4/32
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-Rq   Select-TBA-Id-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID and with 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 {
<pre>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     } }</pre>

	Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rq
	Reference: Clauses 11.5.17, 11.6.2 and 11.6.18
٩	PICS Selection: Table A.4/31 AND Table A.4/32
	Initial conditions
repeat with different pri the whole Application F <i>i</i> ith {	ivate LinkID and different combinations of "Offset" and "Length" parameters in order to cover Record.
the IUT being in the "ir	
valid combinations of "	ceived a valid Open-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID and with 'Offset" and "Length" in Read-Appl-Record-Rq
and the IUT issues a r	esponse with "Result" set to '06'H and "Diagnostic" set to '00'H.
}	
	Expected behaviour
private LinkID and v AP Title" set equal	valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Conf-Rq   Close-Rq with new with the same value of "Offset" and "Length" as in the initial conditions and with "Responding to the value of "Called AP Title" as sent in the initial conditions and "Data" set to '1'B in order to the next application record, which by this command will become the current record.
then { the IUT issues a rea }	sponse with "Result" set to '06'H and "Diagnostic" set to '00'H.
	Final Conditions
and with with the sa equal to the value o } then {	valid Open-Rq   Select-TBA-Id-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID ame value of "Offset" and "Length" as used previously and with "Responding AP Title" set of "Called AP Title" noted previously in order to retrieve data from the application record. sponse with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received ar ent previously

TP/OBU/AL/WA/BV/15	Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rq   Read-Appl-Record-Rq	
	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	
	Initial conditions	
	vate LinkID and different combinations of "Offset" and "Length" parameters in order to cover	
the whole Application Record.		
with {		
the IUT being in the "in		
	ceived a valid Open-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID and with	
	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	
angura that (	Expected behaviour	
ensure that { when {		
	valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Conf-Rq   Read-Appl-Record-Rq	
	private LinkID and with the same value of "Offset" and "Length" as used in the initial conditions	
	ng AP Title" set to the value of "Called AP Title" sent in the initial conditions and "Data" set to	
	e all-zero data to the next application record, which by this command will become the current	
record.		
}		
then {		
the IUT issues a res	sponse with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are	
identical to those se	ent previously	
}		
}		

TP/OBU/AL/WA/BV/16	Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rq   Read-Appl-Record-Rq
	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
	Initial conditions
repeat with different priv	vate LinkID and different combinations of "Offset" and "Length" parameters in order to cover
the whole Application R	Record.
with {	
the IUT being in the "in	itial state"
	eived 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	a response with "Result" set to '06'H and "Diagnostic" set to '00'H.
}	
	Expected behaviour
ensure that {	
when {	
Close-Rq with new p and with "Responding	valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Conf-Rq   Read-Appl-Record-Rq   private LinkID and with the same value of "Offset" and "Length" as used in the initial conditions ng AP Title" set to the value of "Called AP Title" sent in the initial conditions and "Data" set to all-one data to the next application record, which by this command will become the current
}	
then {	
the IUT issues a res identical to those se	sponse with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are int 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
	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
	Initial conditions
with {	
"Offset" set to 40 Dec read/only section and	initial state" eceived a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with cimal and "Length" set to 28 Decimal in Read-Appl-Core-Rq in order to retrieve part of the d part of the read/write section of the Application Core ssued a response with "Result" set to '06'H and "Diagnostic" set to '00'H.
	Expected behaviour
ensure that {	
when {	a valid Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Rq  Close-Rq with new private LinkID and
value of "Called Af data previously red } then {	ues of "Offset" and "Length" as in the initial conditions and with "Responding AP Title" set to the P Title" sent in the initial conditions in order to write different data in the same position as the ceived. esponse with "Result" set to '15'H and "Diagnostic" set to '04'H.
	Final Conditions
ensure that {	
when {	
	a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with "Offset" set to Length" set to 28 Decimal in Read-Appl-Core-Rq in order to retrieve the same information as rd.
•	
then {	
the IUT issues a re	esponse with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are ta received in the first read operation.

#### Optional functionality 5.2.4

#### Valid behaviour 5.2.4.1

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 {	
	response with "Result" set to '06'H and "Diagnostic" set to '00'H and indicating the display type r '4E'H, as specified by the applicant.

TP/OBU/AL/OF/BV/02	Verify that the IUT can manage the 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 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 t	he "initial state"
}	
,	Expected behaviour
repeat for all actions spe	cified by the applicant.
ensure that {	
when {	
the IUT receives specified by the a	a valid Open-Rq   Action-Rq   Close-Rq with new private LinkID and with parameters as applicant.
}	
then {	
	of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H, and providing eters as specified by the applicant.
}	

IP/OBU/AL/OF/B	//03 Verify that the IUT can manage the Set-UIF-Rq
	Reference: Clauses 11.5.18, 11.6.2 and 11.6.19
	PICS Selection: Table A.4/33 AND Table A.4/34
	Initial conditions
with {	
	ng in the "initial state"
}	
	Expected behaviour
ensure that {	
when {	
parame • "Video" • "Audio" third Se • "Time" s • "Count"	eives a valid Open-Rq   Set-UIF-Rq   Set-UIF-Rq   Set-UIF-Rq   Close-Rq with new private LinkID. The ters for the three Set-UIF-Rq primitives shall be: set to '00'H in all three Set-UIF-Rq directives set to '01'H in the first Set-UIF-Rq directive, '02'H in the second Set-UIF-Rq directive, and '03'H in the et-UIF-Rq directive. et to 1 set to 1 set to 1 in the first Set-UIF-Rq directive, 2 in the second Set-UIF-Rq directive, and 3 in the third Set- directive.
} then { Verify that t } }	he IUT generates three different audio signals, with 1, 2, and 3 repetitions, respectively.

### 5.2.4.2 Invalid behaviour

TP/OBU/AL/OF/BI/01	Verify that the IUT can manage an invalid 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, 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	n the "initial state"		
}			
	Expected behaviour		
ensure that {			
when {			
the IUT receives	s a valid Open-Rq   Action-Rq   Close-Rq with new private LinkID and with parameters as		
specified by the	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.			

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}

# 5.2.5 Security

### 5.2.5.1 Valid behaviour

Verify that the IUT can manage Set-Password-Rq
Reference: Clauses 11.5.20, 11.6.2 and 11.6.21
PICS Selection: Table A.4/37 AND Table A.4/38
Initial conditions
e "initial state" AND the password to be used in the OBU is accessed according to the applicant corded in an external media
Expected behaviour
valid Open-Rq   Set-Password-Rq with new private LinkID and with valid value of "Length" in and the value of the transmitted password set to a value different from that of the original a response message with "Result" set to '06'H and "Diagnostic" set to '00', Note the value of
Final Conditions
valid Select-TBA-Id-Rq   Close-Rq with the "Responding AP Title" parameter set to the d "Called AP Title" value. sword to be used reverts back to its original value, by accessing the OBU according to the tions.

	/erify that the IUT can manage Use-Last-Password-Rq
	Reference: Clauses 11.5.21, 11.6.2 and 11.6.22
P	PICS Selection: Table A.4/39 AND Table A.4/38
	Initial conditions
with {	
	itial state" eived a valid Open-Rq   Set-Password-Rq   Close-Rq with new private LinkID and with valid t-Password-Rq and a value for password different from the original settings as specified by
	Expected behaviour
ensure that {	
when { the IUT receives a va "Length" in Use-Last }	alid Open-Rq   Use-Last-Password-Rq with new private LinkID and with valid value of t-Password-Rq.
then { Verify reception of a "Called AP Title".	response message with "Result" set to '06'H and "Diagnostic" set to '00'. Note the value of
Verify that the passy	word to be used in the OBU is the same as the one transmitted in TP/OBU/AL/SC/BV/01, by according to the applicant specifications.
}	
	Final Conditions
ensure that {	
	alid Select-TBA-Id-Rq   Close-Rq with the "Responding AP Title" parameter set to the "Called AP Title" value.
}	
	response message with "Result" set to '06'H and "Diagnostic" set to '00'H. word to be used reverts back to its original value, by accessing the OBU according to the ons.
}	

TP/OBU/AL/SC/BV/03	Verify that the IUT can manage Get-TBA-Random-Rq
	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 th	e "initial state"
}	Expected behaviour
repeat 10 times, by modif	ying 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 {	
	a response message with "Result" set to '06'H and "Diagnostic" set to '00'. Note the data
retrieved.	
Repeat 100 times {	
when {	
	es a valid Open-Rq   Get-TBA-Random-Rq   Close-Rq with new private LinkID and with valid
	th" in Get-TBA-Random-Rq.
}	
then {	
Verify reception	n of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the
	is different from that received in the previously issued Get-TBA-Random-Rq.
}	
}	
}	

TP/OBU/AL/SC/BV/04	Verify that the IUT can manage Set-Credential-Rq 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
with {	
the IUT being in the "	initial state"
e e	eceived a valid Open-Rg   Get-TBA-Random-Rg   Close-Rg with new private LinkID and with
valid value of "Length	" in Get-TBA-Random-Rg.
	sued a response message with "Result" set to '06'H and "Diagnostic" set to '00'.
	ieved data from the OBU according to the field and legth as specified by the applicant for
	s and having computed its credentials based on the random number received after the Get-
	the data previously received
}	
,	Expected behaviour
ensure that {	·
when {	
	valid Open-Rq   Set-Credential-Rq   Close-Rq with values for "Length" and "Credentials"
	omputed credentials.
}	
then {	
	a response message with "Result" set to '06'H and "Diagnostic" set to '00'H.
l l l l l l l l l l l l l l l l l l l	a response message with result of the corrange Blaghoute set to corri
1	
J	

TP/OBU/AL/SC/BV/05	Verify that the IUT can manage Set-Credential-Rq with 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
	Table A.2/1
	Initial conditions
vith {	
the IUT being in the "i	nitial state" AND Test Purpose TP/OBU/AL/SC/BV/03 successfully executed
and the IUT having re	ceived a valid Open-Rq   Get-TBA-Random-Rq   Get-Master-Record-Rq   Close-Rq with new
private LinkID and wit	h valid value of "Length" in Get-TBA-Random-Rg and values of '10'D for "Offset" and '2'D for
"Length in the Get-Ma	ister-Record-Rq in order to get the value of AC_CR-KeyReference.
	sued a response message with "Result" set to '06'H and "Diagnostic" set to '00'.
	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"
	omputed credentials in the initial conditions.
}	
then {	
	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
IF/UBU/AL/SC/BV/00	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
vith {	
the IUT being in the '	
and the IUT having r	eceived a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with valid
	nent" and for "Length" in Read-Appl-Core-Rq.
and the IUT having is	ssued a response message with "Result" set to '06'H and "Diagnostic" set to '00'.
·	Expected behaviour
Repeat 8 times varving th	he key used to generate credentials
ensure that {	
when {	
	nputed credentials according to the data data received, a randomly generated number of 10
	the available keys.
	ves a valid Open-Rq   Get-Credential-Rq   Close-Rq with the same values for "Offset" and
	in the initial conditions, with values for "Nonce-len" and "Nonce" parameters corresponding to a
	n number and with a value for the "Key" parameter indicating the key used for computation of the
credentials.	
} then {	
	f a response message with "Result" set to '06'H and "Diagnostic" set to '00' and with a value for
	entials 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
	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
with {	
the IUT being in the '	"initial state"
	eceived a valid Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID and with
	icement" and '14'D for "Length" in Read-Appl-Core-Rq.
	ssued a response message with "Result" set to '06'H and "Diagnostic" set to '00'.
}	
	Expected behaviour
Repeat 8 times varying th	he key used to generate credentials.
ensure that {	
when {	
	nputed credentials according to the data received, a randomly generated number of 10 octets
and one of the av	
	ves a valid Open-Rq   Get-Credential-Rq   Close-Rq with the same values for "Offset" and
Lendth" as used	in the initial conditions, with values of '10'D for "Nonce-len" parameter and "Nonce"
	the generated random number and with a value for the "Key" parameter indicating the key used

#### } 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
	Reference: Clauses 11.5.20, 11.6.2 and 11.6.21
	PICS Selection: Table A.4/37 AND Table A.4/38
	Initial conditions
	e "initial state" AND the password to be used in the OBU is accessed according to the applican corded in an external media
\$	Expected behaviour
"Length" in Set-Pa original password. } then { Verify reception of	sequence Open-Rq   Set-Password-Rq with new private LinkID and with invalid value of ssword-Rq and the value of the transmitted password set to a value different from that of the a response message with "Result" set to '15'H and "Diagnostic" set to '04', Verify that the ed remains set to its original value, by accessing the OBU according to the applicant
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.4/42 AND Table A.4/42
	Initial conditions
with { the IUT being in th	e "initial state"
1	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-Rq
	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 "i	nitial state"
5	ceived a valid Open-Rq   Get-TBA-Random-Rq   Close-Rq with new private LinkID and with
	" in Get-TBA-Random-Rq.
	sued a response message with "Result" set to '06'H and "Diagnostic" set to '00'.
	rieved data from the OBU according to the field and legth as specified by the applicant for
	and having computed its credentials based on the random number received after the Get-
	the data previously received. The value of the credentials is then modified.
}	
<b>y</b>	Expected behaviour
ensure that {	•
when {	
	valid Open-Rq   Set-Credential-Rq   Close-Rq with values for "Length" and "Credentials"
	Ilue computed in the initial conditions.
}	
then {	
	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
	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
Initial conditions	

with {

the IUT being in the "initial state" AND Test Purpose TP/OBU/AL/SC/BV/03 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-Rq 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.

TP/OBU/AL/SC/BI/05	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	
with {		
the IUT being in the	e "initial state"	
}		
Expected behaviour		
ensure that {		
when {		
the IUT receives a valid Open-Rq   Get-Credential-Rq   Close-Rq with valid values for "Offset" and "Length", but		
with a value for "Nonce-len" parameter different from '10'D.		
}		
then {		
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
	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
with {	
the IUT being in th	e "initial state"
}	
	Expected behaviour
ensure that {	
when {	
and "Nonce" corres	valid Open-Rq   Get-Credential-Rq   Close-Rq with values of '10'D for "Nonce-len" parameter sponding to a generated random number but with an invalid value for the "Key" parameter used for computation of the credentials.
then {	
Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04'.	
<pre>}</pre>	
}	

# 5.2.6 Integrity constraints

TP/OBU/AL/IC/BI/01	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 with "Result" set to '15'H and "Diagnostic" set to '02'H and no data	
}	
}	

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	the IUT being in the "initial state"	
}		
Expected behaviour		
ensure that {		
when {		
the IUT receives a valid Close-Rg with broadcast LinkID		
}		
then {		
the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data.		
}		
}		

	1	
TP/OBU/AL/IC/BI/03	Verify that the IUT correctly identifies an invalid Read-Appl-Record-Rq outside a session	
	Reference: Clauses 11.6.2 and 11.6.4	
	PICS Selection: Table A.4/23 AND Table A.4/24	
	Initial conditions	
with {		
the IUT being in the	e "initial state"	
and the IUT having	and the IUT having received a valid Open-Rq   Close-Rq with a new private LinkID	
	and the IUT having issued a response with with "Result" set to 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	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/04 Verify	y that the IUT correctly identifies an invalid Read-Appl-Record-Rq outside a session	
Refe	rence: Clauses 11.6.2 and 11.6.4	
PICS	Selection: Table A.4/23 AND Table A.4/24	
	Initial conditions	
with {		
the IUT being in the "initia	al state"	
and the IUT having recei	ved a valid Open-Rq   Close-Rq with a new private LinkID	
and the IUT having issue	d a response with with "Result" set to 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 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 '02'H and no data.		
}	}	
}		

TP/OBU/AL/IC/BI/05	Verify that the IUT correctly identifies an invalid Read-Appl-Core-Rq outside a session
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.3/11 AND Table A.3/12
	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	
and the IUT having	i issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	
	Expected behaviour
ensure that {	
when {	
the IUT receives	s 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	a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data.
}	
•	
TP/OBU/AL/IC/BI/06	Verify that the IUT correctly identifies an invalid Read-Appl-Core-Rq outside a session
	Reference: Clauses 11.6.2 and 11.6.4

 PICS Selection: Table A.3/11 AND Table A.3/12

 Initial conditions

 with {
 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 with "Result" set to 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 valid combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole application core.

 }
 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/07	Verify that the IUT correctly identifies an invalid Read-Master-Core-Rq outside a session	
	Reference: Clauses 11.6.2 and 11.6.4	
	PICS Selection: Table A.4/13 AND Table A.4/14	
	Initial conditions	
with {		
the IUT being in the	e "initial state"	
and the IUT having	g received a valid Open-Rq   Close-Rq with a new private LinkID	
	issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.	
}		
Expected behaviour		
ensure that {		
when {		
the IUT receives a valid Read- Master-Core-Rg 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.		
}		
}		
μ		

TP/OBU/AL/IC/BI/08	Verify that the IUT correctly identifies an invalid Read-Master-Core-Rq outside a session
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/13 AND Table A.4/14
	Initial conditions
with {	
the IUT being in th	e "initial state"
0	g received a valid Open-Rg   Close-Rg with a new private LinkID
	issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	
	Expected behaviour
ensure that {	-
when {	
the IUT receive	s a valid Read- Master-Core-Rg with broadcast LinkID and with valid combinations of "Offset" and
	id- Master-Core-Rg in order to retrieve a part of or the whole master core.
}	
then {	
	a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data.
}	

TP/OBU/AL/IC/BI/09	Verify that the IUT correctly identifies a Get-Master-Record-Rq outside a session
	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
	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 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 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 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 with "Result" set to 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 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 '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
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/25 AND Table A.4/26
	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
and the IUT having	issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	
	Expected behaviour
ensure that {	
when {	
the IUT receives	s a valid Write-Appl-Record-Curr-Rq with LinkID as used in the initial conditions and with valid
	"Offset" and "Length" in Write-Appl-Record-Curr-Rq in order to write a part of or the whole current
application reco	rd.
}	
then {	
the IUT issues a	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
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/25 AND Table A.4/26
	Initial conditions
with {	
the IUT being in the	e "initial state"
and the IUT having	g received a valid Open-Rq   Close-Rq with a new private LinkID
	g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	,
	Expected behaviour
ensure that {	
when {	
the IUT receives	s a valid Write-Appl-Record-Curr-Rq with broadcast LinkID and with valid combinations of "Offset" Write-Appl-Record-Curr-Rq in order to write a part of or the whole current application record.
}	
then {	
the IUT issues a	a response with "Result" set to '15'H and "Diagnostic" set to '02'H.
}	

TP/OBU/AL/IC/BI/13	Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Conf-Rq following a valid
	termination request of an existing session
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/27 AND Table A.4/28
	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 with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	
,	Expected behaviour
ensure that {	·
when {	
valid combination	s a valid Write-Appl-Record-Curr-Conf-Rq with LinkID as used in the initial conditions and with ons of "Offset" and "Length" in Write-Appl-Record-Curr-Conf-Rq in order to write a part of or the pplication record.
}	
then {	
the IUT issues a	a response with "Result" set to '15'H and "Diagnostic" set to '02'H.
}	
}	

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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
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/27 AND Table A.4/28
	Initial conditions
with {	
the IUT being in the	e "initial state"
and the IUT having	g received a valid Open-Rq   Close-Rq with a new private LinkID
	issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	
	Expected behaviour
ensure that {	
when {	
the IUT receives	s a valid Write-Appl-Record-Curr-Conf-Rq with broadcast LinkID and with valid combinations of
"Offset" and "Le	ngth" in Write-Appl-Record-Curr-Conf-Rq in order to write a part of or the whole current
application reco	rd.
}	
then {	
the IUT issues a	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
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/29 AND Table A.4/30
	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 with "Result" set to 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 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-Rq 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
	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
and the IUT having	issued a response with with "Result" set to 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. }

P/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
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/31 AND Table A.4/32
	Initial conditions
with {	
the IUT being in the and the IUT having	e "initial state" g received a valid Open-Rq   Close-Rq with a new private LinkID g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	Expected behaviour
ensure that {	
when {	
	s a valid Write-Appl-Record-Next-Conf-Rq with LinkID as used in the initial conditions and with
	ons of "Offset" and "Length" in Write-Appl-Record-Next-Conf-Rq in order to write a part of or the
	pplication record.
}	
then {	
	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-Rq following a
	valid termination request of an existing session
	Deference: Clouded 11 6.0 and 11 6.4
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/31 AND Table A.4/32
with {	
	PICS Selection: Table A.4/31 AND Table A.4/32 Initial conditions
the IUT being in the	PICS Selection: Table A.4/31 AND Table A.4/32 Initial conditions e "initial state"
the IUT being in the and the IUT having	PICS Selection: Table A.4/31 AND Table A.4/32 Initial conditions e "initial state" g received a valid Open-Rq   Close-Rq with a new private LinkID
and the IUT having	PICS Selection: Table A.4/31 AND Table A.4/32 Initial conditions e "initial state"
the IUT being in the and the IUT having	PICS Selection: Table A.4/31 AND Table A.4/32 Initial conditions e "initial state" g received a valid Open-Rq   Close-Rq with a new private LinkID g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
the IUT being in the and the IUT having and the IUT having }	PICS Selection: Table A.4/31 AND Table A.4/32 Initial conditions e "initial state" g received a valid Open-Rq   Close-Rq with a new private LinkID
the IUT being in the and the IUT having and the IUT having } ensure that {	PICS Selection: Table A.4/31 AND Table A.4/32 Initial conditions e "initial state" g received a valid Open-Rq   Close-Rq with a new private LinkID g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
the IUT being in the and the IUT having and the IUT having } ensure that { when {	PICS Selection: Table A.4/31 AND Table A.4/32 Initial conditions e "initial state" g received a valid Open-Rq   Close-Rq with a new private LinkID g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H. Expected behaviour
the IUT being in the and the IUT having and the IUT having } ensure that { when { the IUT receives	PICS Selection: Table A.4/31 AND Table A.4/32 Initial conditions e "initial state" g received a valid Open-Rq   Close-Rq with a new private LinkID g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H. Expected behaviour s a valid Write-Appl-Record-Next-Conf-Rq with broadcast LinkID and with valid combinations of
the IUT being in the and the IUT having and the IUT having } ensure that { when { the IUT receives "Offset" and "Le	PICS Selection:       Table A.4/31 AND Table A.4/32         Initial conditions         e "initial state"         g received a valid Open-Rq   Close-Rq with a new private LinkID         g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.         Expected behaviour         s a valid Write-Appl-Record-Next-Conf-Rq with broadcast LinkID and with valid combinations of ength" in Write-Appl-Record-Next-Conf-Rq in order to write a part of or the whole current
the IUT being in the and the IUT having and the IUT having } ensure that { when { the IUT receives	PICS Selection:       Table A.4/31 AND Table A.4/32         Initial conditions         e "initial state"         g received a valid Open-Rq   Close-Rq with a new private LinkID         g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.         Expected behaviour         s a valid Write-Appl-Record-Next-Conf-Rq with broadcast LinkID and with valid combinations of ength" in Write-Appl-Record-Next-Conf-Rq in order to write a part of or the whole current
the IUT being in the and the IUT having and the IUT having } ensure that { when { the IUT receives "Offset" and "Le application reco }	PICS Selection:       Table A.4/31 AND Table A.4/32         Initial conditions         e "initial state"         g received a valid Open-Rq   Close-Rq with a new private LinkID         g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.         Expected behaviour         s a valid Write-Appl-Record-Next-Conf-Rq with broadcast LinkID and with valid combinations of ength" in Write-Appl-Record-Next-Conf-Rq in order to write a part of or the whole current
the IUT being in the and the IUT having and the IUT having } ensure that { when { the IUT receives "Offset" and "Le application reco } then {	PICS Selection:       Table A.4/31 AND Table A.4/32         Initial conditions         e "initial state"         g received a valid Open-Rq   Close-Rq with a new private LinkID         g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.         Expected behaviour         s a valid Write-Appl-Record-Next-Conf-Rq with broadcast LinkID and with valid combinations of ength" in Write-Appl-Record-Next-Conf-Rq in order to write a part of or the whole current ord.
the IUT being in the and the IUT having and the IUT having } ensure that { when { the IUT receives "Offset" and "Le application reco } then { the IUT issues a	PICS Selection:       Table A.4/31 AND Table A.4/32         Initial conditions         e "initial state"         g received a valid Open-Rq   Close-Rq with a new private LinkID         g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.         Expected behaviour         s a valid Write-Appl-Record-Next-Conf-Rq with broadcast LinkID and with valid combinations of ength" in Write-Appl-Record-Next-Conf-Rq in order to write a part of or the whole current
the IUT being in the and the IUT having and the IUT having } ensure that { when { the IUT receives "Offset" and "Le application reco } then {	PICS Selection:       Table A.4/31 AND Table A.4/32         Initial conditions         e "initial state"         g received a valid Open-Rq   Close-Rq with a new private LinkID         g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.         Expected behaviour         s a valid Write-Appl-Record-Next-Conf-Rq with broadcast LinkID and with valid combinations of ength" in Write-Appl-Record-Next-Conf-Rq in order to write a part of or the whole current ord.

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
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/15 AND Table A.4/16
	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
and the IUT having	issued a response with with "Result" set to 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 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	a response with "Result" set to '15'H and "Diagnostic" set to '02'H.
1	

}

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
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/15 AND Table A.4/16
	Initial conditions
with {	
the IUT being in the	e "initial state"
and the IUT having	g received a valid Open-Rq   Close-Rq with a new private LinkID
and the IUT having	issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	
•	Expected behaviour
ensure that {	
when {	
	s a valid Write-Appl-Core-Rq with broadcast LinkID and with valid combinations of "Offset" and e-Appl-Core-Rq in order to write a part of or the whole current application core.
}	
then {	
the IUT issues a	a response with "Result" set to '15'H and "Diagnostic" set to '02'H.
}	

TP/OBU/AL/IC/BI/21	Verify that the IUT correctly identifies an invalid Write-Appl-Core-Conf-Rg following a valid
	termination request of an existing session
	Reference: Clauses 11.6.2 and 11.6.4
	PICS Selection: Table A.4/17 AND Table A.4/18
with {	
the IUT being in the	e "initial state"
Ũ	received a valid Open-Rg   Close-Rg with a new private LinkID
	issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	,
	Expected behaviour
ensure that {	
when {	
the IUT receives	s 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	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
	Initial conditions
vith {	
the IUT being in th	
	g received a valid Open-Rq   Close-Rq with a new private LinkID
and the IUT having	g issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.
}	
	Expected behaviour
ensure that {	
when {	
	s 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.
and "Length" in }	
} then {	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core.
} then {	
} then {	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core.
} then {	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core.
} then {	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core.
} then { the IUT issues ; }	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core. a response with "Result" set to '15'H and "Diagnostic" set to '02'H.
} then {	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core. a response with "Result" set to '15'H and "Diagnostic" set to '02'H.
} then { the IUT issues ; }	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core. a response with "Result" set to '15'H and "Diagnostic" set to '02'H. Verify that the IUT correctly identifies an invalid Select-TBA-Id-Rq following a valid termination request of an existing session
} then { the IUT issues ; }	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core. a response with "Result" set to '15'H and "Diagnostic" set to '02'H. 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
} then { the IUT issues ; }	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core. a response with "Result" set to '15'H and "Diagnostic" set to '02'H. 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
} then { the IUT issues ; }	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core. a response with "Result" set to '15'H and "Diagnostic" set to '02'H. 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
} then { the IUT issues ; }	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core. a response with "Result" set to '15'H and "Diagnostic" set to '02'H. 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
} then { the IUT issues ; } TP/OBU/AL/IC/BI/23	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core. a response with "Result" set to '15'H and "Diagnostic" set to '02'H. 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 e "initial state"
} then { the IUT issues ; } TP/OBU/AL/IC/BI/23 with { the IUT being in th and the IUT having	Write-Appl-Core-Conf-Rq in order to write a part of or the whole current application core. a response with "Result" set to '15'H and "Diagnostic" set to '02'H. 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

# 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. } }

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

 J

 Expected behaviour

 Repeat 100 times, by varying invalid directive codes

 ensure that {

 when {
 the IUT receives Open-Rq | " Invalid directive code number" | Close-Rq with new private LinkID.

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

 }
 }

TP/OBU/AL/IC/BI/27	Verify that the IUT correctly handles a too small number of directives in a single frame
117000/AL/10/DI/2/	
	Reference: Clauses 11.5.1 and 11.6.1
	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-Rg   Read-Master-Core-Rg ("Offset"=0, "Length"=1)   Close-Rg with new private LinkID
	r of Directives" set to 4.
}	
then {	
the IUT issues a	response with with "Result" set to 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
	Reference: Clauses 11.5.1 and 11.6.1
	PICS Selection: Table A.3/1
	Initial conditions
with { the IUT being in t	he "initial state"
J	Expected behaviour
ensure that {	
when {	
the IUT receives	a Open-Rq   Read-Appl-Core-Rq ("Offset"=0, "Length"=1)   Close-Rq with new private LinkID r of Directives" set to 1.
then {	
the IUT issues a	response with with "Result" set to to '06'H and "Diagnostic" set to '00'H, but with no data, to show q has been performed.
	a valid Write-Appl-Core-Rq ("Offset"=0, "Length"=1)   Close-Rq with private LinkID as used th "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 "Number of Direc	a Read-Appl-Core-Rq ("Offset"=0, "Length"=1)   Close-Rq with new private LinkID and with tives" 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 '06'H and "Diagnostic" set to '00'H.
}	

TP/OBU/AL/IC/BI/29	Verify that the IUT correctly identifies a Set-Password-Rq outside a session	
	Reference: Clauses 11.6.2 and 11.6.4	
	PICS Selection: Table A.4/37 AND Table A.4/38 AND Table A.5/5	
	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	
and the IUT having	issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.	
}		
Expected behaviour		
ensure that {		
when {		
	s a valid Set-Password-Rq with LinkID as used in the initial conditions and with valid parameter th" 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		
	Reference: Clauses 11.6.2 and 11.6.4		
	PICS Selection: Table A.4/39 AND Table A.4/40 AND Table A.5/5		
	Initial conditions		
with {			
the IUT being in the	e "initial state"		
	received a valid Open-Rg   Close-Rg with a new private LinkID		
	and the IUT having issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.		
}			
Expected behaviour			
ensure that {	ensure that {		
when {			
the IUT receives	s a valid Use-Last-Password-Rq 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-Tandom-Rq outside a session		
	Reference: Clauses 11.6.2 and 11.6.4		
	PICS Selection: Table A.4/42 AND Table A.4/43 AND Table A.5/5		
	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		
and the IUT having	i issued a response with with "Result" set to to '06'H and "Diagnostic" set to '00'H.		
}			
Expected behaviour			
ensure that {	ensure that {		
when {			
the IUT receives	s a valid Get-TBA-Random-Rq with LinkID as used in the initial conditions and with valid o for "Length".		
}	}		
then {			
the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H.			
}			
}			
<u>.</u>			

## 5.3 Test purposes for road side units

## 5.3.1 Kernel Unit

TP/RSU/AL/KU/BV/01	Verify that the IUT can establish a connection with an OBU
	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 stimu	lated to send the sequence Open-Rq   Close-Rq with new private LinkID.
and the IUT issues a	a valid Open-Rq with a value of "Calling AP Title" as specified by the applicant, followed by a
Close-Rq	
}	
	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-i	ssuing 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 B43/6
	Initial conditions
with (	

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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"
	ated to send the sequence Open-Rg   Read-Master-Core-Rg   Close-Rg with new private LinkID
	s of "Offset" and "Length" in Read-Master-Core-Rg.
	sequence of Open-Rg   Read-Master-Core-Rg   Close-Rg with correct values of "Offset" and
"Length"	
}	
,	Expected behaviour
ensure that {	
when {	
	a valid sequence Open-Rs   Read-Master-Core-Rs   Close-Rs with "Result" set to '06'H and
	o '00'H, and with valid read-data.
}	
then {	
the IUT is not re-is	ssuing the sequence Open-Rq   Read-Master-Core-Rq   Close-Rq within the allowed time span.
}	
}	
D	
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

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"

Initial conditions

#### **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. }

TP/RSU/AL/RA/BV/03	Verify that the IUT can read specific fields of the application core
	Reference: Clauses 11.5.8 and 11.6.9
	PICS Selection: Table B.4/13 AND Table B.4/14
	Initial conditions
LinkID and with giver	'initial state" ated to send the sequence Open-Rq   Read-Application-Core-Rq   Close-Rq with new private n values of "Offset" and "Length" in Read-Application-Core-Rq. sequence of Open-Rq   Read-Application-Core-Rq   Close-Rq with correct values of "Offset"
	Expected behaviour
"Diagnostic" set to } then {	a valid sequence Open-Rs   Read-Application-Core-Rs   Close-Rs with "Result" set to '06'H and o '00'H and with valid read-data.
TP/RSU/AL/RA/BV/04	Verify that the IUT can read specific fields of the application record Reference: Clauses 11.5.13 and 11.6.14
	PICS Selection: Table B.4/23 AND Table B.4/24 Initial conditions
with (	
and with known value	'initial state" ated to send the sequence Open-Rq   Read-Appl-Record-Rq   Close-Rq with new private LinkID es of "Offset" and "Length" in Read-Appl-Record-Rq. sequence Open-Rq   Read-Appl-Record-Rq   Close-Rq with valid values of "Offset" and

#### 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

TD/DOLL/AL MALA/DY/04	
TP/RSU/AL/WA/BV/01	Verify that the IUT can write specific fields of the application core
	Reference: Clauses 11.5.9 and 11.6.10
	PICS Selection: Table B.4/16 AND Table B.4/17
	Initial conditions
with {	
the IUT being in the "ir	
	e value of "Responding AP Title" used by the tester
and the IUT is stimulat	ted 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	sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Rq   Close-Rq with valid values of
"Offset", "Length", "Re	esponding AP Title" and write-data.
}	Encoded by backgroup
	Expected behaviour
ensure that {	
when {	
	valid sequence Open-Rs   Select-TBA-Id-Rs   Write-Appl-Core-Rs   Close-Rs with "Result" set
to '06'H and "Diagn	
} then (	
then {	suing the sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Rq   Close-Rq within the
allowed time span.	Jung the sequence Open-Kq   Select-TDA-tu-Kq   White-Appi-Cole-Kq   Close-Kq within the
}	
}	
TP/RSU/AL/WA/BV/02	Verify that the IUT can write to the current application record with immediate confirmation
	Reference: Clauses 11.5.14 and 11.6.15
	PICS Selection: Table B.4/25 AND Table B.4/26
with {	
the IUT being in the "ir	nitial state"
	e value of "Responding AP Title" used by the tester
and the IUT is stimulat	ted to send the sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Curr-Rq   Close-
Rg with known values	of "Offset" and "Length", "Responding AP Title" and write-data.
	sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Curr-Rq   Close-Rq with valid
	ngth", "Responding AP Title" and write-data.
}	
,	Expected behaviour
ensure that {	•
when {	
	valid sequence Open-Rs   Select-TBA-Id-Rs   Write-Appl-Record-Curr-Rs   Close-Rs with
	Hand "Diagnostic" set to '00'H.
}	-

then {
 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
	Reference: Clauses 11.5.16 and 11.6.17
	PICS Selection: Table B.4/29 AND Table B.4/30
	Initial conditions
vith {	
the IUT being in the "	
	ne value of "Responding AP Title" used by the tester
	ated to send the sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Rq   Close- s of "Offset" and "Length", "Responding AP Title" and write-data.
	sor Onset and Length, Responding AP The and white-data. sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Rq   Close-Rq with correct
	ength", "Responding AP Title" and write-data.
	singin, responding Ai mie and wine-data.
]	Expected behaviour
nsure that {	L
when {	
	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 {	
	ssuing 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
	Reference: Clauses 11.5.15 and 11.6.16
	PICS Selection: Table B.4/27 AND Table B.4/28
	Initial conditions
vith {	
the IUT being in the "	
	ne value of "Responding AP Title" used by the tester
and the IUT is stimula	ated to send the sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Curr-Conf-Rq
	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 vali ength", "Responding AP Title" and write-data.
	angth, Responding AP fille and white-data.
]	Expected behaviour
ensure that {	
should that t	

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/WA/BV/05	Verify that the IUT can write to the next application record with deferred confirmation
	Reference: Clauses 11.5.17 and 11.6.18
	PICS Selection: Table B.4/31 AND Table B.4/32
	Initial conditions
and the IUT is stimulat Close-Rq with known and the IUT issues a s	"initial state" he value of "Responding AP Title" used by the tester ed to send the sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Conf-Rq   values of "Offset" and "Length", "Responding AP Title" and write-data equence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Conf-Rq   Close-Rq with valid ngth", "Responding AP Title" and write-data.
}	
	Expected behaviour
} then {	'H and "Diagnostic" set to '00'H. ssuing the sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Record-Next-Conf-Rq   Close-Rc I 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.4/15 Table B.4/16
	Initial conditions
and the IUT is stimul with known values of and the IUT issues a	"initial state" alue of "Responding AP Title" used by the tester ated to send the sequence Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Conf-Rq   Close-Rq f "Offset", "Length" and "Responding AP Title". sequence of Open-Rq   Select-TBA-Id-Rq   Write-Appl-Core-Conf-Rq   Close-Rq with valid ength", "Responding AP Title" and write-data.
J	Expected behaviour
ensure that {	•
when {	

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.

ensure that {

sure 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 '41'H.
 }
 then {
 the IUT is not re-issuing the sequence Open-Rq | Read-Display-Type-Rq | Close-Rq within the allowed time span.
 }

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-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, 11.6.12, 11.6.13 and 11.6.20
	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 and the IUT is stimul specified by the appl	lated to send the sequence Open-Rq   Action-Rq   Close-Rq with known Action-Rq parameter as
}	Expected behaviour
ensure that {	
when { the IUT receives a to '00'H and with	a valid sequence Open-Rs   Action-Rs   Close-Rs with "Result" set to '06'H and "Diagnostic" set valid Action-Rs parameter.
}	
then {	
<pre>verify that the IU i }</pre>	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 and the IUT is stimul specified by the appl }	lated to send the sequence Open-Rq   Action-Rq   Close-Rq with known Action-Rq parameter as
*	Expected behaviour
ensure that {	
	a valid sequence Open-Rs   Action-Rs   Close-Rs with "Result" set to '06'H and "Diagnostic" set valid Action-Rs parameter.
then {	
	ssuing 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
PICS Selection: Table B4/33 AND Table B.4/34
Initial conditions
with {
the IUT being in the "initial state"
Expected behaviour
ensure that { when {
<ul> <li>the IUT is stimulated to send Open-Rq   Set-UIF-Rq   Set-UIF-Rq   Set-UIF-Rq   Close-Rq with new private LinkID. The parameters for the three Set-UIF-Rq primitives shall be:</li> <li>"Video" set to '00'H in all three Set-UIF-Rq directives</li> <li>"Audio" set to '01'H in the first Set-UIF-Rq directive, '02'H in the second Set-UIF-Rq directive, and '03'H in the third Set-UIF-Rq directive.</li> <li>"Time" set to 1</li> </ul>
"Count" set to 1 in the first Set-UIF-Rq directive, 2 in the second Set-UIF-Rq directive, and 3 in the third Set-UIF-Rq directive.
<pre>} then {     verify reception of Open-Rq   Set-UIF-Rq   Set-UIF-Rq   Close-Rq with valid values for all     parameters.     } }</pre>

## 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-Rg.		
}		
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 IU	T 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"		
	ated to send the sequence Open-Rq   Get-TBA-Random-Rq   Close-Rq with new private LinkID of "Length" in Get-TBA-Random-Rq.		
}			
	Expected behaviour		
ensure that {			
when {			
	a valid sequence Open-Rs   Get-TBA-Random-Rs   Close-Rs with "Result" set to '06'H and o '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
	PICS Selection: Table B.4/43 AND Table B.4/44 AND Table B.9/8 AND Table B.9/9 AND
	Table B.9/11
with (	Initial conditions
with {	"initial atoto"
with new private Link	ated to send the sequence Open-Rq   Get-TBA-Random-Rq   Get-Master-Record-Rq   Close-Rq (ID and with valid value of "Length" in Get-TBA-Random-Rq and values of '10'D for "Offset" and e 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
•	o '00'H and with a random number as data and the requested data from the master record.
}	
then {	ted to compute its analogiticle according to the data received and to issue a convence Open Dal
	ted to compute its credentials according to the data received and to issue a sequence Open-Rq   q   Close-Rq with values for "Length" and "Credentials" according to the computed credentials
	dom number received after the Get-TBA-Random-Rq and the data previously transmitted.
	aon number received after the Geter DA-Mandon-My and the data previously transmitted.
}	
J	Final Conditions
ensure that { the IUT has corre }	ctly 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
	Reference: Clauses 11.5.24 and 11.6.25
	PICS Selection: Table B.4/45 AND Table B.4/46 AND Table B.9/8 AND Table B.9/10
	Initial conditions
with {	
	ated to send the sequence Open-Rq   Read-Appl-Core-Rq   Close-Rq with new private LinkID or "Displacement" and '14'D for "Length" in Read-Appl-Core-Rq in order to read the value of
and	
}	
	Expected behaviour
ensure that {	
when { the IUT receives a from the application	a response message with "Result" set to '06'H and "Diagnostic" set to '00' and the data read on core.
}	
then (	

then {

the IUT is stimulated to compute credentials according to the data received, a randomly generated number of 10 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 '10'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.

# Annex A (informative): Test coverage matrix

## A.1 Introduction

The following tables show the test purposes coverage with respect to:

- a) Relevant clauses in the base standard; and
- b) PICS statements.

There is one table for OBU and one table for RSU.

The tables are ordered by base standard clauses. When no other indication is given, it is assumed that the referenced clause contains one testable statement. Otherwise, the referenced statement is identified by the order of sentences, list items, or rules specified in the related base standard clause.

# A.2 OBU

Table A.1 constitutes the test coverage matrix for OBUs.

Base standard clause	PICS reference	Test purpose
Foreword	None	Nothing to be tested
Introduction	None	Nothing to be tested
1 Scope	None	Nothing to be tested
2 Normative references	None	Nothing to be tested
3 Definitions, symbols and abbreviations	None	Nothing to be tested
4 General	None	Nothing to be tested
5 Test conditions, power sources and ambient temperatures	None	Nothing to be tested
6 General conditions	None	Nothing to be tested
7 Layer 1: Methods of measurement and limits for road side unit transmitter parameters	None	Nothing to be tested
8 Layer 1: Methods of measurement and limits for RSU road side unit receiver parameters	None	Nothing to be tested
9 Layer 1: Method of measurements and limits for on-board units	None	Nothing to be tested
10 Layer 2 parameters and procedures	None	Nothing to be tested
11.1 General Conditions	None	Nothing to be tested
11.2.1 Protocol data unit formats	None	Nothing to be tested
11.2.2 Concatenation	None	Nothing to be tested
11.2.3 Sessions	Table A.5/1, Table A.5/2, Table A.5/3, Table A.5/4, Table A.5/5, Table A.5/6	TP/OBU/AL/IC/BI/03, TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05, TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07, TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/09, TP/OBU/AL/IC/BI/10, TP/OBU/AL/IC/BI/11, TP/OBU/AL/IC/BI/12, TP/OBU/AL/IC/BI/13, TP/OBU/AL/IC/BI/14, TP/OBU/AL/IC/BI/15, TP/OBU/AL/IC/BI/14, TP/OBU/AL/IC/BI/15, TP/OBU/AL/IC/BI/18, TP/OBU/AL/IC/BI/19, TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21, TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23, TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25, TP/OBU/AL/IC/BI/29,
11.3 Protocol messages and parameters: ASN.1 definitions	None	TP/OBU/AL/IC/BI/30, TP/OBU/AL/IC/BI/31 TP/OBU/AL/IC/BI/26

#### Table A.1: OBU test coverage matrix

rules       Non         11.5.1 Protocol Data Unit formats       Non         11.5.2 Open-Rq protocol message       Tabl         Tabl       Tabl         11.5.3 Close-Rq protocol message       Tabl         11.5.4 Select-TBA-Id-Rq protocol message       Tabl         11.5.5 Read-Display-Type-Rq protocol message       Tabl         11.5.6 Read-Display-Type-Rq protocol message       Tabl         11.5.7 Get-Master-Core-Rq protocol message       Tabl         11.5.8 Read-Appl-Core-Rq protocol message       Tabl         11.5.9 Write-Appl-Core-Rq protocol message       Tabl         11.5.10 Write-Appl-Core-Conf-Rq protocol message       Tabl         11.5.11 Write-Data-To-External-Rq protocol       Tabl         Tabl       Tabl <th>e A.4/1, e A.4/2 e A.4/2 e A.4/3, e A.4/4 e A.4/4 e A.4/4 e A.4/5, le A.4/6 le A.4/7, le A.4/7, le A.4/7, le A.4/8, le A.4/10, le A.4/10, le A.4/11, e A.4/12, e A.4/13, e A.4/14, e A.5/1 le A.4/15, le A.4/16,</th> <th>Test purpose         All         TP/OBU/AL/IC/BI/27, TP/OBU/AL/IC/BI/28         TP/OBU/AL/KU/BV/01,         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/24,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/05,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV</th>	e A.4/1, e A.4/2 e A.4/2 e A.4/3, e A.4/4 e A.4/4 e A.4/4 e A.4/5, le A.4/6 le A.4/7, le A.4/7, le A.4/7, le A.4/8, le A.4/10, le A.4/10, le A.4/11, e A.4/12, e A.4/13, e A.4/14, e A.5/1 le A.4/15, le A.4/16,	Test purpose         All         TP/OBU/AL/IC/BI/27, TP/OBU/AL/IC/BI/28         TP/OBU/AL/KU/BV/01,         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/24,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/05,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV
11.5.1 Protocol Data Unit formats       Non         11.5.2 Open-Rq protocol message       Tabl         11.5.3 Close-Rq protocol message       Tabl         11.5.3 Close-Rq protocol message       Tabl         11.5.4 Select-TBA-Id-Rq protocol message       Tabl         11.5.5 Read-Display-Type-Rq protocol message       Tabl         11.5.6 Read-Display-Type-Rq protocol message       Tabl         11.5.7 Get-Master-Core-Rq protocol message       Tabl         11.5.8 Read-Appl-Core-Rq protocol message       Tabl         11.5.9 Write-Appl-Core-Rq protocol message       Tabl         11.5.10 Write-Appl-Core-Conf-Rq protocol message       Tabl         11.5.11 Write-Data-To-External-Rq protocol       Tabl         11.5.11 Write-Data-To-External-Rq protocol       Tabl         11.5.11 Write-Data-To-External-Rq protocol       Tabl	e A.4/1, e A.4/2 e A.4/2 e A.4/3, e A.4/4 e A.4/4 e A.4/4 e A.4/5, le A.4/6 le A.4/7, le A.4/7, le A.4/7, le A.4/8, le A.4/10, le A.4/10, le A.4/11, e A.4/12, e A.4/13, e A.4/14, e A.5/1 le A.4/15, le A.4/16,	TP/OBU/AL/KU/BV/01,         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/04,         TP/OBU/AL/IC/BI/06,         TP/OBU/AL/IC/BI/20,         TP/OBU/AL/IC/BI/20,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/05,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/IC/BI/06         TP/OBU/AL/IC/BI/06
11.5.2 Open-Rq protocol messageTabl Tabl11.5.3 Close-Rq protocol messageTabl Tabl11.5.3 Close-Rq protocol messageTabl Tabl11.5.4 Select-TBA-Id-Rq protocol messageTabl Tabl11.5.5 Read-Display-Type-Rq protocol messageTabl Tabl Tabl11.5.6 Read-Master-Core-Rq protocol messageTabl Tabl Tabl11.5.7 Get-Master-Record-Rq protocol messageTabl Tabl Tabl11.5.8 Read-Appl-Core-Rq protocol messageTabl Tabl Tabl11.5.9 Write-Appl-Core-Rq protocol messageTabl Tabl Tabl Tabl11.5.10 Write-Appl-Core-Conf-Rq protocol messageTabl Tabl Tabl Tabl Tabl Tabl Tabl Tabl11.5.11 Write-Data-To-External-Rq protocol messageTabl 	e A.4/1, e A.4/2 e A.4/2 e A.4/3, e A.4/4 e A.4/4 e A.4/4 e A.4/5, le A.4/6 le A.4/7, le A.4/7, le A.4/7, le A.4/8, le A.4/10, le A.4/10, le A.4/11, e A.4/12, e A.4/13, e A.4/14, e A.5/1 le A.4/15, le A.4/16,	TP/OBU/AL/KU/BV/01,         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/KU/BV/03,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/02,         TP/OBU/AL/IC/BI/04,         TP/OBU/AL/IC/BI/06,         TP/OBU/AL/IC/BI/20,         TP/OBU/AL/IC/BI/20,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/22,         TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/05,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/IC/BI/06         TP/OBU/AL/IC/BI/06
Table11.5.3 Close-Rq protocol messageTable11.5.3 Close-Rq protocol messageTable11.5.4 Select-TBA-Id-Rq protocol messageTable11.5.5 Read-Display-Type-Rq protocol messageTable11.5.6 Read-Master-Core-Rq protocol messageTable11.5.7 Get-Master-Record-Rq protocol messageTable11.5.8 Read-Appl-Core-Rq protocol messageTable11.5.9 Write-Appl-Core-Rq protocol messageTable11.5.10 Write-Appl-Core-Conf-Rq protocol messageTable11.5.11 Write-Data-To-External-Rq protocolTable </td <td>e A.4/2 e A.4/3, e A.4/4 e A.4/4 e A.4/4 e A.4/4 e A.4/5, e A.4/6 e A.4/7, le A.4/7, le A.4/7, le A.4/8, le A.4/10, le A.4/10, le A.4/11, le A.4/12, le A.4/13, le A.4/14, le A.4/15, le A.4/16,</td> <td>TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03, TP/OBU/AL/IC/BI/01,         TP/OBU/AL/KU/BV/03, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/19,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/RA/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03, TP/OBU/AL/IC/BI/25,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,</td>	e A.4/2 e A.4/3, e A.4/4 e A.4/4 e A.4/4 e A.4/4 e A.4/5, e A.4/6 e A.4/7, le A.4/7, le A.4/7, le A.4/8, le A.4/10, le A.4/10, le A.4/11, le A.4/12, le A.4/13, le A.4/14, le A.4/15, le A.4/16,	TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03, TP/OBU/AL/IC/BI/01,         TP/OBU/AL/KU/BV/03, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/19,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/RA/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03, TP/OBU/AL/IC/BI/25,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,
11.5.3 Close-Rq protocol messageTabl Tabl11.5.3 Close-Rq protocol messageTabl11.5.4 Select-TBA-Id-Rq protocol messageTabl Tabl11.5.5 Read-Display-Type-Rq protocol messageTabl Tabl11.5.6 Read-Master-Core-Rq protocol messageTabl Tabl Tabl11.5.7 Get-Master-Record-Rq protocol messageTabl Tabl Tabl11.5.8 Read-Appl-Core-Rq protocol messageTabl Tabl Tabl11.5.9 Write-Appl-Core-Rq protocol messageTabl Tabl Tabl Tabl11.5.10 Write-Appl-Core-Conf-Rq protocol messageTabl Tabl Tabl Tabl Tabl Tabl Tabl11.5.11 Write-Data-To-External-Rq protocol messageTabl 	e A.4/3, 	TP/OBU/AL/KU/BV/03         TP/OBU/AL/KU/BV/01,         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/IC/BI/06         TP/OBU/AL/WA/BV/01,
TableTable11.5.4 Select-TBA-Id-Rq protocol messageTable11.5.5 Read-Display-Type-Rq protocol messageTable11.5.5 Read-Master-Core-Rq protocol messageTable11.5.6 Read-Master-Core-Rq protocol messageTable11.5.7 Get-Master-Record-Rq protocol messageTable11.5.8 Read-Appl-Core-Rq protocol messageTable11.5.9 Write-Appl-Core-Rq protocol messageTable11.5.10 Write-Appl-Core-Conf-Rq protocol messageTable11.5.11 Write-Data-To-External-Rq protocolTable11.5.11 Write-Data-To-External-Rq protocolTable <td>e A.4/4 e A.4/5, e A.4/6 e A.4/6 e A.4/7, le A.4/8, le A.4/8, le A.4/10, le A.4/10, le A.4/10, le A.4/11, le A.4/12, le A.4/13, e A.4/14, e A.5/1 e A.4/15, le A.4/15, le A.4/16,</td> <td>TP/OBU/AL/KU/BV/01,         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03, TP/OBU/AL/IC/BI/01,         TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/19,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/KU/BV/04,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,</td>	e A.4/4 e A.4/5, e A.4/6 e A.4/6 e A.4/7, le A.4/8, le A.4/8, le A.4/10, le A.4/10, le A.4/10, le A.4/11, le A.4/12, le A.4/13, e A.4/14, e A.5/1 e A.4/15, le A.4/15, le A.4/16,	TP/OBU/AL/KU/BV/01,         TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03, TP/OBU/AL/IC/BI/01,         TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/19,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/KU/BV/04,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,
TableTable11.5.4 Select-TBA-Id-Rq protocol messageTable11.5.5 Read-Display-Type-Rq protocol messageTable11.5.5 Read-Master-Core-Rq protocol messageTable11.5.6 Read-Master-Core-Rq protocol messageTable11.5.7 Get-Master-Record-Rq protocol messageTable11.5.8 Read-Appl-Core-Rq protocol messageTable11.5.9 Write-Appl-Core-Rq protocol messageTable11.5.10 Write-Appl-Core-Conf-Rq protocol messageTable11.5.11 Write-Data-To-External-Rq protocolTable11.5.11 Write-Data-To-External-Rq protocolTable <td>e A.4/4 e A.4/5, e A.4/6 e A.4/6 e A.4/7, le A.4/8, le A.4/8, le A.4/10, le A.4/10, le A.4/10, le A.4/11, le A.4/12, le A.4/13, e A.4/14, e A.5/1 e A.4/15, le A.4/15, le A.4/16,</td> <td>TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03, TP/OBU/AL/IC/BI/01,         TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/KU/BV/04,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/RA/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/IC/BI/06         TP/OBU/AL/WA/BV/01,</td>	e A.4/4 e A.4/5, e A.4/6 e A.4/6 e A.4/7, le A.4/8, le A.4/8, le A.4/10, le A.4/10, le A.4/10, le A.4/11, le A.4/12, le A.4/13, e A.4/14, e A.5/1 e A.4/15, le A.4/15, le A.4/16,	TP/OBU/AL/KU/BV/02,         TP/OBU/AL/KU/BV/03, TP/OBU/AL/IC/BI/01,         TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/KU/BV/04,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/RA/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/IC/BI/06         TP/OBU/AL/WA/BV/01,
Table         11.5.5 Read-Display-Type-Rq protocol message       Table         11.5.6 Read-Master-Core-Rq protocol message       Table         11.5.6 Read-Master-Core-Rq protocol message       Table         11.5.7 Get-Master-Record-Rq protocol message       Table         11.5.8 Read-Appl-Core-Rq protocol message       Table         11.5.9 Write-Appl-Core-Rq protocol message       Table         11.5.10 Write-Appl-Core-Conf-Rq protocol message       Table         11.5.11 Write-Data-To-External-Rq protocol       Table         Table	e A.4/6 e A.4/7, e A.4/8, e A.5/1 e A.4/9, le A.4/10, le A.4/10, le A.4/12, le A.4/12, le A.4/13, le A.4/13, le A.4/14, e A.5/1 e A.4/15, le A.4/16,	TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,         TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/19,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25,         TP/OBU/AL/KU/BV/04,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/IC/BI/23         TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/05,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/05,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/IC/BI/06         TP/OBU/AL/WA/BV/01,
Tabl         11.5.5 Read-Display-Type-Rq protocol message       Tabl         11.5.6 Read-Master-Core-Rq protocol message       Tabl         11.5.6 Read-Master-Core-Rq protocol message       Tabl         11.5.7 Get-Master-Record-Rq protocol message       Tabl         11.5.8 Read-Appl-Core-Rq protocol message       Tabl         11.5.9 Write-Appl-Core-Rq protocol message       Tabl         11.5.10 Write-Appl-Core-Conf-Rq protocol message       Tabl         11.5.11 Write-Data-To-External-Rq protocol       Tabl         Tabl	e A.4/6 e A.4/7, e A.4/8, e A.5/1 e A.4/9, le A.4/10, le A.4/10, le A.4/12, le A.4/12, le A.4/13, le A.4/13, le A.4/14, e A.5/1 e A.4/15, le A.4/16,	TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/19,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/KU/BV/04,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,
Tabl         11.5.5 Read-Display-Type-Rq protocol message       Tabl         11.5.6 Read-Master-Core-Rq protocol message       Tabl         11.5.6 Read-Master-Core-Rq protocol message       Tabl         11.5.7 Get-Master-Record-Rq protocol message       Tabl         11.5.8 Read-Appl-Core-Rq protocol message       Tabl         11.5.9 Write-Appl-Core-Rq protocol message       Tabl         11.5.10 Write-Appl-Core-Conf-Rq protocol message       Tabl         11.5.11 Write-Data-To-External-Rq protocol       Tabl         Tabl	e A.4/6 e A.4/7, e A.4/8, e A.5/1 e A.4/9, le A.4/10, le A.4/10, le A.4/12, le A.4/12, le A.4/13, le A.4/13, le A.4/14, e A.5/1 e A.4/15, le A.4/16,	TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,         TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/19,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/KU/BV/04,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/02         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/03,         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/03,
Table         11.5.5 Read-Display-Type-Rq protocol message       Table         11.5.6 Read-Master-Core-Rq protocol message       Table         11.5.6 Read-Master-Core-Rq protocol message       Table         11.5.7 Get-Master-Record-Rq protocol message       Table         11.5.8 Read-Appl-Core-Rq protocol message       Table         11.5.9 Write-Appl-Core-Rq protocol message       Table         11.5.10 Write-Appl-Core-Conf-Rq protocol message       Table         11.5.11 Write-Data-To-External-Rq protocol       Table         Table	e A.4/6 e A.4/7, e A.4/8, e A.5/1 e A.4/9, le A.4/10, le A.4/10, le A.4/12, le A.4/12, le A.4/13, le A.4/13, le A.4/14, e A.5/1 e A.4/15, le A.4/16,	TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/19,         TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/KU/BV/04,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/02         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/05,         TP/OBU/AL/RA/BV/03, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/RA/BV/03,
Table         11.5.5 Read-Display-Type-Rq protocol message       Table         11.5.6 Read-Master-Core-Rq protocol message       Table         11.5.6 Read-Master-Core-Rq protocol message       Table         11.5.7 Get-Master-Record-Rq protocol message       Table         11.5.8 Read-Appl-Core-Rq protocol message       Table         11.5.9 Write-Appl-Core-Rq protocol message       Table         11.5.10 Write-Appl-Core-Conf-Rq protocol message       Table         11.5.11 Write-Data-To-External-Rq protocol       Table         Table	e A.4/6 e A.4/7, e A.4/8, e A.5/1 e A.4/9, le A.4/10, le A.4/10, le A.4/12, le A.4/12, le A.4/13, le A.4/13, le A.4/14, e A.5/1 e A.4/15, le A.4/16,	TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,         TP/OBU/AL/IC/BI/22, TP/OBU/AL/IC/BI/23,         TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/KU/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/KU/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/KU/BI/24, TP/OBU/AL/IC/BI/25         TP/OBU/AL/KU/BI/01, TP/OBU/AL/KU/BI/02,         TP/OBU/AL/IC/BI/23         TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24         TP/OBU/AL/RA/BV/01,         TP/OBU/AL/RA/BV/02         TP/OBU/AL/RA/BV/03         TP/OBU/AL/RA/BV/04,         TP/OBU/AL/RA/BV/05,         TP/OBU/AL/RA/BV/03, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/RA/BV/03, TP/OBU/AL/IC/BI/05,         TP/OBU/AL/IC/BI/06         TP/OBU/AL/WA/BV/01,
Table         11.5.5 Read-Display-Type-Rq protocol message       Table         11.5.6 Read-Master-Core-Rq protocol message       Table         11.5.6 Read-Master-Core-Rq protocol message       Table         11.5.7 Get-Master-Record-Rq protocol message       Table         11.5.8 Read-Appl-Core-Rq protocol message       Table         11.5.9 Write-Appl-Core-Rq protocol message       Table         11.5.10 Write-Appl-Core-Conf-Rq protocol message       Table         11.5.11 Write-Data-To-External-Rq protocol       Table         Table	e A.4/6 e A.4/7, e A.4/8, e A.5/1 e A.4/9, le A.4/10, le A.4/10, le A.4/12, le A.4/12, le A.4/13, le A.4/13, le A.4/14, e A.5/1 e A.4/15, le A.4/16,	TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25           TP/OBU/AL/KU/BV/04,           TP/OBU/AL/KU/BI/01, TP/OBU/AL/KU/BI/02,           TP/OBU/AL/IC/BI/23           TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24           TP/OBU/AL/RA/BV/01,           TP/OBU/AL/RA/BV/01,           TP/OBU/AL/RA/BV/02           TP/OBU/AL/RA/BV/03           TP/OBU/AL/RA/BV/03,           TP/OBU/AL/RA/BV/04,           TP/OBU/AL/RA/BV/05,           TP/OBU/AL/RA/BV/03,           TP/OBU/AL/RA/BV/04,           TP/OBU/AL/RA/BV/05,           TP/OBU/AL/RA/BV/03,           TP/OBU/AL/RA/BV/03,           TP/OBU/AL/RA/BV/04,           TP/OBU/AL/RA/BV/05,           TP/OBU/AL/RA/BV/03,           TP/OBU/AL/RA/BV/03,           TP/OBU/AL/RA/BV/03,           TP/OBU/AL/RA/BV/03,
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Tabl         11.5.9 Write-Appl-Core-Rq protocol message       Tabl         Tabl       Tabl	e A.4/14, e A.5/1 e A.4/15, e A.4/16,	TP/OBU/AL/RA/BV/05, TP/OBU/AL/WA/BV/03, TP/OBU/AL/IC/BI/05, TP/OBU/AL/IC/BI/06 TP/OBU/AL/WA/BV/01,
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11.5.10 Write-Appl-Core-Conf-Rq protocol message       Tabl         11.5.11 Write-Data-To-External-Rq protocol       Tabl         Tabl       Tabl		TP/OBU/AL/WA/BV/02,
Tabl Tabl 11.5.11 Write-Data-To-External-Rq protocol message Tabl Tabl Tabl	e A.5/2	TP/OBU/AL/WA/BV/03,
Tabl Tabl 11.5.11 Write-Data-To-External-Rq protocol message Tabl Tabl Tabl		TP/OBU/AL/WA/BV/04, TP/OBU/AL/IC/BI/09
Tabl       11.5.11 Write-Data-To-External-Rq protocol     Tabl       message     Tabl       Tabl     Tabl	e A.4/17,	TP/OBU/AL/WA/BV/05, TP/OBU/AL/IC/BI/21
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11.5.14 Write-Appl-Record-Curr-Rq protocol Tabl	e A.4/25,	TP/OBU/AL/WA/BV/16, TP/OBU/AL/IC/BI/03 TP/OBU/AL/WA/BV/06,
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11.5.17 Write-Appl-Record-Next-Conf-Rq protocol Tabl	e A.4/31,	TP/OBU/AL/WA/BV/13,
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Base standard clause	PICS reference	Test purpose
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11.5.19 Action-Rq protocol message	Table A.4/35,	TP/OBU/AL/OF/BV/01,
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11.5.20 Set-Password-Rq protocol message	Table A.4/37,	TP/OBU/AL/SC/BV/01, TP/OBU/AL/SC/BI/01
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11.5.21 Use-Last-Password-Rq protocol message	Table A.4/39, Table A.4/40,	TP/OBU/AL/SC/BV/02
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11.5.22 Get-TBA-Random-Rq protocol message	Table A.4/41,	TP/OBU/AL/SC/BV/03
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11.5.23 Set-Credential-Rq protocol message	Table A.4/43,	TP/OBU/AL/SC/BV/04,
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11.6.1 Protocol Data Unit formats		TP/OBU/AL/KU/BV/01, TP/OBU/AL/KU/BV/02,
		TP/OBU/AL/KU/BV/02, TP/OBU/AL/KU/BV/03,TP/OBU/AL/KU/BI/01,
		TP/OBU/AL/KU/BI/02, TP/OBU/AL/IC/BI/26,
		TP/OBU/AL/IC/BI/27, TP/OBU/AL/IC/BI/28
11.6.2 Receiving Protocol Data Units		All TPs
11.6.3 Response to Open-Rq	Table A.4/1,	TP/OBU/AL/KU/BV/01,
	Table A.4/2	TP/OBU/AL/KU/BV/02,
		TP/OBU/AL/KU/BV/03
11.6.4 Response to Close-Rq	Table A.4/3,	TP/OBU/AL/KU/BV/01,
	Table A.4/4	TP/OBU/AL/KU/BV/02,
		TP/OBU/AL/KU/BV/03, TP/OBU/AL/IC/BI/01,
		TP/OBU/AL/IC/BI/02, TP/OBU/AL/IC/BI/03,
		TP/OBU/AL/IC/BI/04, TP/OBU/AL/IC/BI/05,
		TP/OBU/AL/IC/BI/06, TP/OBU/AL/IC/BI/07,
		TP/OBU/AL/IC/BI/08, TP/OBU/AL/IC/BI/19,
		TP/OBU/AL/IC/BI/20, TP/OBU/AL/IC/BI/21,
14.05 Decrements Colort TDA Id Dr		TP/OBU/AL/IC/BI/24, TP/OBU/AL/IC/BI/25
11.6.5 Response to Select-TBA-Id-Rq	Table A.4/5, Table A.4/6	
	Table A.4/6	TP/OBU/AL/KU/BI/01, TP/OBU/AL/KU/BI/02,
11.6.6 Response to Read-Display-Type-Rq	Table A.4/7,	TP/OBU/AL/IC/BI/23 TP/OBU/AL/OF/BV/01, TP/OBU/AL/IC/BI/24
I TO O NESPONSE TO NEAU-DISPIAY-TYPE-RY	Table A.4/ $7$ , Table A.4/ $8$ ,	/ \CDU/AL/OF/BV/01, 1F/\CDU/AL/IC/DI/24
	Table A.4/8, Table A.5/1	
11.6.7 Response to Read-Master-Core-Rq	Table A.4/9,	TP/OBU/AL/RA/BV/01,
The response to read-master-obje-ry	Table A.4/10,	TP/OBU/AL/RA/BV/02
	Table A.5/1	
11.6.8 Response to Get-Application-Record-Rq	Table A.4/11,	TP/OBU/AL/RA/BV/03
	Table A.4/12	
	Table A.5/1	
	Table A.4/13,	TP/OBU/AL/RA/BV/04,
11.6.9 Response to Read-Appl-Core-Ra		
11.6.9 Response to Read-Appl-Core-Rq	Table A.4/14	TP/OBU/AL/RA/BV/05.
11.6.9 Response to Read-Appl-Core-Rq		TP/OBU/AL/RA/BV/05, TP/OBU/AL/WA/BV/03, TP/OBU/AL/IC/BI/05,

<ul> <li>1.6.10 Response to Write-Appl-Core-Rq</li> <li>1.6.11 Response to Write-Appl-Core-Conf-Rq</li> <li>1.6.12 Response to Write-Data-To-External-Rq</li> <li>1.6.13 Response to Read-Data-From-External-Rq</li> <li>1.6.14 Response to Read-Appl-Record-Rq</li> </ul>	Table A.4/15,         Table A.4/16,         Table A.5/2         Table A.4/17,         Table A.4/18,         Table A.4/18,         Table A.4/19,         Table A.4/20,         Table A.5/14         Table A.4/21,         Table A.4/22,         Table A.4/21,         Table A.4/21,         Table A.4/22,         Table A.4/21,	TP/OBU/AL/WA/BV/01, TP/OBU/AL/WA/BV/02, TP/OBU/AL/WA/BV/03, TP/OBU/AL/WA/BV/04, TP/OBU/AL/IC/BI/09 TP/OBU/AL/WA/BV/05, TP/OBU/AL/IC/BI/21 TP/OBU/AL/OF/BV/02, TP/OBU/AL/OF/BI/01
1.6.12 Response to Write-Data-To-External-Rq 1.6.13 Response to Read-Data-From-External-Rq	Table A.5/2         Table A.4/17,         Table A.4/18,         Table A.5/2         Table A.4/19,         Table A.4/20,         Table A.5/14         Table A.4/21,         Table A.4/22,         Table A.5/14	TP/OBU/AL/WA/BV/03, TP/OBU/AL/WA/BV/04, TP/OBU/AL/IC/BI/09 TP/OBU/AL/WA/BV/05, TP/OBU/AL/IC/BI/21 TP/OBU/AL/OF/BV/02, TP/OBU/AL/OF/BI/01
1.6.12 Response to Write-Data-To-External-Rq 1.6.13 Response to Read-Data-From-External-Rq	Table A.5/2         Table A.4/17,         Table A.4/18,         Table A.5/2         Table A.4/19,         Table A.4/20,         Table A.5/14         Table A.4/21,         Table A.4/22,         Table A.5/14	TP/OBU/AL/WA/BV/03, TP/OBU/AL/WA/BV/04, TP/OBU/AL/IC/BI/09 TP/OBU/AL/WA/BV/05, TP/OBU/AL/IC/BI/21 TP/OBU/AL/OF/BV/02, TP/OBU/AL/OF/BI/01
1.6.12 Response to Write-Data-To-External-Rq 1.6.13 Response to Read-Data-From-External-Rq	Table A.4/18,         Table A.5/2         Table A.4/19,         Table A.4/20,         Table A.5/14         Table A.4/21,         Table A.4/22,         Table A.5/14	TP/OBU/AL/WA/BV/04, TP/OBU/AL/IC/BI/09 TP/OBU/AL/WA/BV/05, TP/OBU/AL/IC/BI/21 TP/OBU/AL/OF/BV/02, TP/OBU/AL/OF/BI/01
1.6.12 Response to Write-Data-To-External-Rq 1.6.13 Response to Read-Data-From-External-Rq	Table A.4/18,         Table A.5/2         Table A.4/19,         Table A.4/20,         Table A.5/14         Table A.4/21,         Table A.4/22,         Table A.5/14	TP/OBU/AL/WA/BV/05, TP/OBU/AL/IC/BI/21 TP/OBU/AL/OF/BV/02, TP/OBU/AL/OF/BI/01
1.6.12 Response to Write-Data-To-External-Rq 1.6.13 Response to Read-Data-From-External-Rq	Table A.4/18,         Table A.5/2         Table A.4/19,         Table A.4/20,         Table A.5/14         Table A.4/21,         Table A.4/22,         Table A.5/14	TP/OBU/AL/OF/BV/02, TP/OBU/AL/OF/BI/01
1.6.13 Response to Read-Data-From-External-Rq	Table A.5/2           Table A.4/19,           Table A.4/20,           Table A.5/14           Table A.4/21,           Table A.4/22,           Table A.5/14	
1.6.13 Response to Read-Data-From-External-Rq	Table A.4/19, Table A.4/20, Table A.5/14 Table A.4/21, Table A.4/22, Table A.5/14	
1.6.13 Response to Read-Data-From-External-Rq	Table A.4/20, Table A.5/14 Table A.4/21, Table A.4/22, Table A.5/14	
	Table A.5/14 Table A.4/21, Table A.4/22, Table A.5/14	TP/OBU/AL/OF/BV/02, TP/OBU/AL/OF/BI/01
	Table A.4/21, Table A.4/22, Table A.5/14	TP/OBU/AL/OF/BV/02, TP/OBU/AL/OF/BI/01
	Table A.4/22, Table A.5/14	
1.6.14 Response to Read-Appl-Record-Rq	Table A.5/14	
1.6.14 Response to Read-Appl-Record-Rq		
T.O. 14 Response to Read-Appi-Record-Ry		TP/OBU/AL/RA/BV/06,
	Table A.4/23, Table A.4/24,	TP/OBU/AL/RA/BV/00,
	Table A.4/24, Table A.5/1	TP/OBU/AL/WA/BV/07,
	TADIE A.5/T	TP/OBU/AL/WA/BV/09,
		TP/OBU/AL/WA/BV/15,
		,
4.C.45 Despense to Write Appl Desert Curr Dr.		TP/OBU/AL/WA/BV/16, TP/OBU/AL/IC/BI/03
1.6.15 Response to Write-Appl-Record-Curr-Rq	Table A.4/25,	
	Table A.4/26,	TP/OBU/AL/WA/BV/07, TP/OBU/AL/IC/BI/11
4.0.40.0	Table A.5/2	
1.6.16 Response to Write-Appl-Record-Curr-Conf-	Table A.4/27,	TP/OBU/AL/WA/BV/08,
Rd	Table A.4/28,	
	Table A.5/2	TP/OBU/AL/WA/BV/10, TP/OBU/AL/IC/BI/13,
		TP/OBU/AL/IC/BI/14
1.6.17 Response to Write-Appl-Record-Next-Rq	Table A.4/29,	TP/OBU/AL/WA/BV/11,
	Table A.4/30,	TP/OBU/AL/WA/BV/12, TP/OBU/AL/IC/BI/15,
	Table A.5/2	TP/OBU/AL/IC/BI/16
1.6.18 Response to Write-Appl-Record-Next-Conf-	Table A.4/31,	TP/OBU/AL/WA/BV/13,
۹	Table A.4/32,	TP/OBU/AL/WA/BV/14,
	Table A.5/2	TP/OBU/AL/WA/BV/15,
		TP/OBU/AL/WA/BV/16,TP/OBU/AL/IC/BI/17,
		TP/OBU/AL/IC/BI/18
1.6.19 Response to Set-UIF-Rq	Table A.4/33,	TP/OBU/AL/OF/BV/03
	Table A.4/34	
1.6.20 Response to Action-Rq	Table A.4/35,	TP/OBU/AL/OF/BV/01,
	Table A.4/36,	TP/OBU/AL/OF/BI/01, TP/OBU/AL/IC/BI/13
	Table A.5/14	
1.6.21 Response to Set-Password-Rq	Table A.4/37,	TP/OBU/AL/SC/BV/01, TP/OBU/AL/SC/BI/01
	Table A.4/38	
	Table A.5/5	
1.6.22 Response to Use-Last-Password-Rq	Table A.4/39,	TP/OBU/AL/SC/BV/02
	Table A.4/40,	
	Table A.5/5	
1.6.23 Response to Get-TBA-Random-Rq	Table A.4/41,	TP/OBU/AL/SC/BV/03
	Table A.4/42,	
	Table A.5/5	
1.6.24 Response to Set-Credential-Rq	Table A.4/43,	TP/OBU/AL/SC/BV/04,
	Table A.4/44,	TP/OBU/AL/SC/BV/05,
	Table A.5/5,	TP/OBU/AL/SC/BI/03, TP/OBU/AL/SC/BV/04
	Table A.5/9,	,
	Table A.5/10,	
	Table A.5/11,	
	Table A.5/12	
1.6.25 Response to Get-Credential-Rq	Table A.4/45,	TP/OBU/AL/SC/BV/06,
· · · · · · · · · · · · · · · · · · ·	Table A.4/46,	TP/OBU/AL/SC/BV/07,
	Table A.5/5,	TP/OBU/AL/SC/BI/05, TP/OBU/AL/SC/BV/06
	Table A.5/9,	
	Table A.5/10,	
	Table A.5/11,	
	Table A.5/12	

Base standard clause	PICS reference	Test purpose
12 Measurement uncertainty	None	Nothing to be tested
Annex A (normative): Radiated measurement	None	Nothing to be tested
Annex B (normative): General description of measurement methods	None	Nothing to be tested
Annex C (normative): Receiver methods of measurements using messages	None	Nothing to be tested
Annex D (normative): Profile for the European Electronic Fee Collection Service	Table A.2	Test selection according to conditions in the PICS

# A.3 RSU

Table A.2 constitutes the test coverage matrix for RSUs.

Base standard clause	PICS reference	Test purpose	
Foreword	None	Nothing to be tested	
Introduction	1	5	
1 Scope	1		
2 Normative references	1		
3 Definitions, symbols and abbreviations	1		
4 General	1		
5 Test conditions, power sources and ambient	1		
temperatures			
6 General conditions			
7 Layer 1: Methods of measurement and limits for			
road side unit transmitter parameters			
8 Layer 1: Methods of measurement and limits for			
RSU road side unit receiver parameters			
9 Layer 1: Method of measurements and limits for			
on-board units			
10 Layer 2 parameters and procedures			
11.1 General Conditions	None	Nothing to be tested	
11.2.1 Protocol data unit formats	None	Nothing to be tested	
11.2.2 Concatenation	None	Nothing to be tested	
11.2.3 Sessions	Table B.9	All TPs	
11.3 Protocol messages and parameters: ASN.1	None	Nothing to be tested	
definitions			
11.4 Protocol messages and parameters:	Table B.1	All TPs	
encoding rules			
11.5.1 Protocol Data Unit formats	Table B.3,	All TPs	
	Table B.5,		
	Table B.6		
11.5.2 Open-Rq protocol message	Table B.4/1,	TP/RSU/AL/KU/BV/01	
	Table B.4/2		
11.5.3 Close-Rq protocol message	Table B.4/3,	TP/RSU/AL/KU/BV/01	
44.5.4 Coloct TDA. Id Dr. protocol monocore	Table B.4/4 Table B.4/5,	TP/RSU/AL/KU/BV/02	
11.5.4 Select-TBA-Id-Rq protocol message	Table B.4/5, Table B.4/6	TP/RSU/AL/KU/BV/02	
11.5.5 Read-Display-Type-Rq protocol message	Table B.4/7,	TP/RSU/AL/OF/BV/01,	
11.5.5 Read-Display-Type-Rd protocol message	Table B.4/8,	TP/RSU/AL/OF/BV/02,	
	Table B.9/1	TP/RSU/AL/OF/BV/03	
11.5.6 Read-Master-Core-Rq protocol message	Table B.4/9,	TP/RSU/AL/RA/BV/01	
	Table B.4/10,		
	Table B.9/1		
11.5.7 Get-Master-Record-Rq protocol message	Table B.4/11,	TP/RSU/AL/RA/BV/02	
	Table B.4/12,		
	Table B.9/1		
11.5.8 Read-Appl-Core-Rq protocol message	Table B.4/13,	TP/RSU/AL/RA/BV/03	
	Table B.4/14,		
	Table B.9/1		

Base standard clause	PICS reference	Test purpose
11.5.9 Write-Appl-Core-Rq protocol message	Table B.4/15,	TP/RSU/AL/WA/BV/01
	Table B.4/16,	
	Table B.9/2	
11.5.10 Write-Appl-Core-Conf-Rq protocol message	Table B.4/17,	TP/RSU/AL/WA/BV/06
	Table B.4/18,	
	Table B.5/2	
11.5.11 Write-Data-To-External-Rq protocol	Table B.4/19,	TP/RSU/AL/OF/BV/04,
message	Table B.4/20,	TP/RSU/AL/OF/BV/05
lineeeuge	Table B.9/13	
11.5.12 Read-Data-From-External-Rg protocol	Table B.4/21,	TP/RSU/AL/OF/BV/04,
message	Table B.4/22,	TP/RSU/AL/OF/BV/05
Inessage	Table B.9/13	
11.5.13 Read-Appl-Record-Rq protocol message	Table B.4/23,	TP/RSU/AL/RA/BV/04
11.5.15 Read-Appi-Recold-Ry protocol message	Table B.4/23, Table B.4/24,	IF/R30/AL/RA/BV/04
	Table B.9/1	
11 5 11 Muite Appl Decord Curr Dr. protocol		TP/RSU/AL/WA/BV/02
11.5.14 Write-Appl-Record-Curr-Rq protocol	Table B.4/25,	TP/RSU/AL/WA/BV/02
message	Table B.4/26,	
	Table B.9/2	
11.5.15 Write-Appl-Record-Curr-Conf-Rq protocol	Table B.4/27,	TP/RSU/AL/WA/BV/04
message	Table B.4/28,	
	Table B.9/2	
11.5.16 Write-Appl-Record-Next-Rq protocol	Table B.4/29,	TP/RSU/AL/WA/BV/03
message	Table B.4/30,	
	Table B.9/2	
11.5.17 Write-Appl-Record-Next-Conf-Rq protocol	Table B.4/31,	TP/RSU/AL/WA/BV/05
message	Table B.4/32,	
	Table B.9/2	
11.5.18 Set-UIF-Rq protocol message	Table B.4/33,	TP/RSU/AL/OF/BV/06
	Table B.4/34	
11.5.19 Action-Rq protocol message	Table B.4/35,	TP/RSU/AL/OF/BV/04,
	Table B.4/36,	TP/RSU/AL/OF/BV/05
	Table B.9/13	
11.5.20 Set-Password-Rq protocol message	Table B.4/37,	TP/RSU/SC/BV/01
	Table B.4/38	
	Table B.9/5	
11.5.21 Use-Last-Password-Rq protocol message	Table B.4/39,	TP/RSU/SC/BV/02
	Table B.4/40,	
	Table B.9/5	
11.5.22 Get-TBA-Random-Rq protocol message	Table B.4/41,	TP/RSU/SC/BV/03
	Table B.4/42,	
	Table B.9/5	
11.5.23 Set-Credential-Rq protocol message	Table B.4/43,	TP/RSU/SC/BV/04
·····	Table B.4/44,	
	Table B.9/5,	
	Table B.9/8,	
	Table B.9/9,	
	Table B.9/10,	
	Table B.9/11	
11.5.24 Get-Credential-Rq protocol message	Table B.4/45,	TP/RSU/SC/BV/05
	Table B.4/46,	
	Table B.9/5,	
	Table B.9/8,	
	Table B.9/9,	
	Table B.9/10,	
	Table B.9/11	

Base standard clause	PICS reference	Test purpose
11.6.1 Protocol Data Unit formats	None	Nothing to be tested
11.6.2 Receiving Protocol Data Units	None	Nothing to be tested
11.6.3 Response to Open-Rq	Table B.4/1, Table B.4/2	TP/RSU/AL/KU/BV/01
11.6.4 Response to Close-Rq	Table B.4/3, Table B.4/4	TP/RSU/AL/KU/BV/01
11.6.5 Response to Select-TBA-Id-Rq	Table B.4/5, Table B.4/6	TP/RSU/AL/KU/BV/02
11.6.6 Response to Read-Display-Type-Rq	Table B.4/7, Table B.4/8, Table B.9/1	TP/RSU/AL/OF/BV/01, TP/RSU/AL/OF/BV/02, TP/RSU/AL/OF/BV/03
11.6.7 Response to Read-Master-Core-Rq	Table B.4/9, Table B.4/10, Table B.9/1	TP/RSU/AL/RA/BV/01
11.6.8 Response to Get-Master-Record-Rq	Table B.4/11, Table B.4/12 Table B.9/1	TP/RSU/AL/RA/BV/02
11.6.9 Response to Read-Appl-Core-Rq	Table B.4/13, Table B.4/14, Table B.9/1	TP/RSU/AL/RA/BV/03
11.6.10 Response to Write-Appl-Core-Rq	Table B.4/15, Table B.4/16 Table B.9/2	TP/RSU/AL/WA/BV/01
11.6.11 Response to Write-Appl-Core-Conf-Rq	Table B.4/17, Table B.4/18, Table B.5/2	TP/RSU/AL/WA/BV/06
11.6.12 Response to Write-Data-To-External-Rq	Table B.4/19, Table B.4/20, Table B.9/13	TP/RSU/AL/OF/BV/04, TP/RSU/AL/OF/BV/05
11.6.13 Response to Read-Data-From-External-Rq	Table B.4/21, Table B.4/22, Table B.9/13	TP/RSU/AL/OF/BV/04, TP/RSU/AL/OF/BV/05
11.6.14 Response to Read-Appl-Record-Rq	Table B.4/23, Table B.4/24, Table B.9/1	TP/RSU/AL/RA/BV/04
11.6.15 Response to Write-Appl-Record-Curr-Rq	Table B.4/25, Table B.4/26, Table B.9/2	TP/RSU/AL/WA/BV/02
11.6.16 Response to Write-Appl-Record-Curr-Conf- Rq	Table B.4/27, Table B.4/28, Table B.9/2	TP/RSU/AL/WA/BV/04
11.6.17 Response to Write-Appl-Record-Next-Rq	Table B.4/29, Table B.4/30, Table B.9/2	TP/RSU/AL/WA/BV/03
11.6.18 Response to Write-Appl-Record-Next-Conf- Rq	Table B.4/31, Table B.4/32, Table B.9/2	TP/RSU/AL/WA/BV/05
11.16.19 Response to Set-UIF-Rq	Table B.4/33, Table B.4/34	TP/RSU/AL/OF/BV/06
11.6.20 Response to Action-Rq	Table B.4/35, Table B.4/36, Table B.9/13	TP/RSU/AL/OF/BV/04, TP/RSU/AL/OF/BV/05
11.6.21 Response to Set-Password-Rq	Table B.4/37, Table B.4/38, Table B.9/5	TP/RSU/SC/BV/01
11.6.22 Response to Use-Last-Password-Rq	Table B.4/39, Table B.4/40, Table B.9/5	TP/RSU/SC/BV/02
11.6.22 Response to Get-TBA-Random-Rq	Table B.4/41, Table B.4/42, Table B.9/5	TP/RSU/SC/BV/03

Base standard clause	PICS reference	Test purpose
11.6.23 Response to Set-Credential-Rq	Table B.4/43, Table B.4/44, Table B.9/5, Table B.9/8, Table B.9/9, Table B.9/10,	TP/RSU/SC/BV/04
11.6.24 Response to Get-Credential-Rq	Table B.9/11 Table B.4/45, Table B.4/46, Table B.9/5, Table B.9/8, Table B.9/9, Table B.9/10, Table B.9/11	TP/RSU/SC/BV/05
12 Measurement uncertainty	None	Nothing to be tested
Annex A (normative): Radiated measurement	None	Nothing to be tested
Annex B (normative): General description of measurement methods	None	Nothing to be tested
Annex C (normative): Receiver methods of measurements using messages	None	Nothing to be tested
Annex D (normative): Profile for the European Electronic Fee Collection Service	Table B.2	Test selection according to conditions in the PICS

# History

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

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