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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-00258

Keywords

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Contents

2 References 5 2.1 Normative references 5 2.2 Informative references 5 3 Definitions and abbreviations 6 3.1 Definitions 6 3.2 Abbreviations 6 4 Test Suite Structure 6 4.1 Structure 6 4.2 Test groups 6 4.3 Type of SUT 6 4.4.1 Valid behaviour tests 6 4.4.2 Invalid behaviour tests 7 5 Test purposes 7 5.1.1 Definition conventions 7 5.1.2 Naming conventions 7 5.1.3 Sources of TP definitions 8 5.1.4 General reference 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 9 5.2.1 Valid behaviour 9 5.2.1 <	Intelle	ectual Property Rights	4
2 References 5 2.1 Normative references 5 2.2 Informative references 5 3.1 Definitions and abbreviations 6 8.1 Definitions 6 8.1 Definitions 6 8.2 Abbreviations 6 4.1 Test Suite Structure 6 4.2 Test groups 6 4.3 Type of SUT 6 4.4 Behaviour test groups 6 4.4.1 Valid behaviour tests 7 5.1 Invalid behaviour tests 7 6.1 Introduction 7 7.1 Introduction 7 8.1 Introduction 7 8.1.1 Definition conventions 7 8.1.2 Naming conventions 7 8.1.3 General reference 8 8.1.4 General reference 8 8.1.5 General conditions 8 8.1.7 Presentation conventio	Forew	vord	4
2.1 Normative references. 5.5 2.2 Informative references. 5.5 3.1 Definitions and abbreviations. 6.6 3.1 Definitions. 6.6 3.2 Abbreviations. 6. 4.1 Test Suite Structure. 6. 4.1 Structure. 6. 4.2 Test groups. 6. 4.3 Type of SUT. 6. 4.4.1 Valid behaviour tests. 6. 4.4.2 Invalid behaviour tests. 6. 4.4.1 Valid behaviour tests. 7. 5.1 Introduction. 7. 5.1.1 Definition conventions. 7. 5.1.2 Naming conventions. 7. 5.1.3 Sources of TP definitions. 8. 5.1.4 General reference. 8. 5.1.5 General conditions. 8. 5.1.6 Default PICS selection. 8. 5.1.7 Presentation conventions. 9. 5.2 Test purposes for on-board units. 9. 5.2.1 Valid behaviour. 9. </td <td>1</td> <td>Scope</td> <td>5</td>	1	Scope	5
2.1 Normative references. 5.5 2.2 Informative references. 5.5 3.1 Definitions and abbreviations. 6.6 3.1 Definitions. 6.8 3.2 Abbreviations. 6. 4.1 Test Suite Structure. 6. 4.1 Structure. 6. 4.2 Test groups. 6. 4.3 Type of SUT. 6. 4.4.1 Valid behaviour tests. 6. 4.4.2 Invalid behaviour tests. 6. 4.4.1 Valid behaviour tests. 7. 5.1 Introduction. 7. 5.1.1 Definition conventions. 7. 5.1.2 Naming conventions. 7. 5.1.3 Sources of TP definitions. 8. 5.1.4 General reference. 8. 5.1.5 General conditions. 8. 5.1.6 Default PICS selection. 8. 5.1.7 Presentation conventions. 9. 5.2 Test purposes for on-board units. 9. 5.2.1 Valid behaviour. 9. </td <td>2.</td> <td>References</td> <td>5</td>	2.	References	5
2.2 Informative references	2 1		
3 Definitions and abbreviations 6 3.1 Definitions 6 3.2 Abbreviations 6 4 Test Suite Structure 6 1.1 Structure 6 1.2 Test groups 6 1.3 Type of SUT 6 1.4 Behaviour test groups 6 1.4.1 Valid behaviour tests 7 1.4.2 Invalid behaviour tests 7 5 Test purposes 7 5.1 Introduction 7 5.1.1 Definition conventions 7 5.1.2 Naming conventions 7 5.1.3 Sources of TP definitions 8 5.1.4 General conditions 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purpose for on-board units 9 5.2.1 Kend purpose for on-board units 9			
3.1 Definitions 6 3.2 Abbreviations 6 4 Test Suite Structure 6 4.1 Structure 6 4.2 Test groups 6 4.4 Behaviour test groups 6 4.4.1 Valid behaviour tests 7 4.4.2 Invalid behaviour tests 7 5 Test purposes 7 5.1 Introduction 7 5.1.1 Definition conventions 7 5.1.2 Naming conventions 7 5.1.3 Sources of TP definitions 8 5.1.4 General conditions 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2.1 Kernel Unit 9 5.2.1.1 Valid behaviour 9 5.2.1.1 Valid behaviour 9 5.2.2.1 Invalid behaviour 9 5.2.3.1 Valid behaviour 9 5.2.2.2 Invalid behaviour	۷.۷		
3.2 Abbreviations .66 4 Test Suite Structure .66 4.1 Structure .66 4.2 Test groups .6 4.3 Type of SUT .6 4.4 Behaviour test groups .6 4.4.1 Valid behaviour tests .6 4.4.2 Invalid behaviour tests .7 5 Test purposes .7 5.1 Introduction .7 5.1.1 Definition conventions .7 5.1.2 Naming conventions .7 5.1.3 Sources of TP definitions .8 5.1.4 General reference .8 5.1.5 General conditions .8 5.1.6 Default PICS selection .8 5.1.7 Presentation conventions .8 5.2 Test purposes for on-board units .9 5.2.1 Kernel Unit .9 5.2.1 Valid behaviour .9 5.2.2.1 Invalid behaviour .9 5.2.2.1 Valid behaviour .9 5.2.2.2	3	Definitions and abbreviations	6
4 Test Suite Structure 6 4.1 Structure 6 4.2 Test groups 6 4.3 Type of SUT 6 4.4 Behaviour test groups 6 4.4.1 Valid behaviour tests 7 5.1 Invalid behaviour tests 7 5.1 Introduction 7 5.1.1 Definition conventions 7 5.1.2 Naming conventions 7 5.1.3 Sources of TP definitions 8 5.1.4 General reference 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Kernel Unit 9 5.2.1.1 Valid behaviour 9 5.2.1.2 Invalid behaviour 9 5.2.2.3 Invalid behaviour 10 5.2.2.1 Invalid behaviour 12 5.2.2.2 Invalid behaviour 27 5.2.3.2	3.1	Definitions	6
4.1 Structure 6 4.2 Test groups 6 4.3 Type of SUT 6 4.4 Behaviour test groups 6 4.4.1 Valid behaviour tests 7 5 Test purposes 7 5.1 Introduction 7 5.1.1 Definition conventions 7 5.1.2 Naming conventions 7 5.1.3 Sources of TP definitions 8 5.1.4 General reference 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Valid behaviour 9 5.2.1.1 Valid behaviour 9 5.2.1.2 Invalid behaviour 10 5.2.2.2 Invalid behaviour 12 5.2.3 Write Access 17 5.2.3 Invalid behaviour 27 5.2.3.1 Valid behaviour 27 5.2.4 Optiona	3.2	Abbreviations	6
4.1 Structure 6 4.2 Test groups 6 4.3 Type of SUT 6 4.4 Behaviour test groups 6 4.4.1 Valid behaviour tests 7 5 Test purposes 7 5.1 Introduction 7 5.1.1 Definition conventions 7 5.1.2 Naming conventions 7 5.1.3 Sources of TP definitions 8 5.1.4 General reference 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Valid behaviour 9 5.2.1.1 Valid behaviour 9 5.2.1.2 Invalid behaviour 10 5.2.2.2 Invalid behaviour 12 5.2.3 Write Access 17 5.2.3 Invalid behaviour 27 5.2.3.1 Valid behaviour 27 5.2.4 Optiona	1	Test Suite Structure	6
4.2 Test groups 66 4.3 Type of SUT. 6 4.4 Behaviour test groups. 6 4.4.1 Valid behaviour tests. 7 5. Test purposes. 7 5. Introduction 7 5.1.1 Definition conventions. 7 5.1.2 Naming conventions. 7 5.1.3 Sources of TP definitions. 8 5.1.4 General reference. 8 5.1.5 General conditions. 8 5.1.6 Default PICS selection. 8 5.1.7 Presentation conventions. 8 5.2 Test purposes for on-board units. 9 5.2.1 Kernel Unit. 9 5.2.1.1 Valid behaviour. 9 5.2.1.2 Invalid behaviour. 10 5.2.1.2 Invalid behaviour. 12 5.2.2.2 Read access. 17 5.2.3.1 Valid behaviour. 17 5.2.2.2 Invalid behaviour. 17 5.2.3.1 Valid behaviour. 27 5.2.3.2 Invalid behaviour. 27 5.2.3.2 Invalid behaviour. 29 5.2.4.1 Valid behaviour. 29 </td <td>-</td> <td></td> <td></td>	-		
4.3 Type of SUT			
4.4 Behaviour test groups 6 4.4.1 Valid behaviour tests 6 4.4.2 Invalid behaviour tests 7 5. Test purposes 7 5.1.1 Introduction 7 5.1.2 Naming conventions 7 5.1.3 Sources of TP definitions 8 5.1.4 General reference 8 5.1.5 General reference 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Valid behaviour 9 5.2.1.1 Valid behaviour 9 5.2.2.1 Invalid behaviour 10 5.2.2 Read access 12 5.2.2.1 Valid behaviour 12 5.2.2.2 Invalid behaviour 17 5.2.3.1 Valid behaviour 27 5.2.3.1 Valid behaviour 27 5.2.3.1 Valid behaviour 27 5.2.4.1 Valid behaviour 27 <			
4.4.1 Valid behaviour tests .6 4.4.2 Invalid behaviour tests .7 5. Test purposes .7 5.1.1 Introduction .7 5.1.2 Naming conventions .7 5.1.3 Sources of TP definitions .8 5.1.4 General reference .8 5.1.5 General conditions .8 5.1.6 Default PICS selection .8 5.1.7 Presentation conventions .8 5.2 Test purposes for on-board units .9 5.2.1.1 Valid behaviour .9 5.2.1.2 Invalid behaviour .9 5.2.1.2 Invalid behaviour .10 5.2.2.1 Valid behaviour .12 5.2.2.1 Valid behaviour .12 5.2.2.2 Invalid behaviour .17 5.2.3.1 Valid behaviour .17 5.2.3.2 Invalid behaviour .27 5.2.3.1 Valid behaviour .27 5.2.4.2 Invalid behaviour .27 5.2.4.1 Valid behaviour <td< td=""><td></td><td>**</td><td></td></td<>		**	
4.4.2 Invalid behaviour tests			
5 Test purposes. 7 5.1.1 Introduction 7 5.1.1 Definition conventions. 7 5.1.2 Naming conventions 7 5.1.3 Sources of TP definitions 8 5.1.4 General reference 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Kernel Unit 9 5.2.1.1 Valid behaviour 9 5.2.1.2 Invalid behaviour 9 5.2.1.2 Invalid behaviour 12 5.2.2.1 Valid behaviour 12 5.2.2.2 Invalid behaviour 12 5.2.3 Write Access 17 5.2.3.1 Valid behaviour 27 5.2.3.2 Invalid behaviour 27 5.2.4.1 Valid behaviour 27 5.2.5.1 Valid behaviour 29			
5.1 Introduction 7 5.1.1 Definition conventions 7 5.1.2 Naming conventions 7 5.1.3 Sources of TP definitions 8 5.1.4 General reference 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Kernel Unit 9 5.2.1 Kernel Unit 9 5.2.1.1 Valid behaviour 9 5.2.1.1 Valid behaviour 9 5.2.1.2 Invalid behaviour 12 5.2.2.1 Valid behaviour 12 5.2.2.2 Invalid behaviour 17 5.2.2.3 Invalid behaviour 27 5.2.3.1 Valid behaviour 27 5.2.4.1 Valid behaviour 27 5.2.4.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 29	4.4.2		
5.1.1 Definition conventions .7 5.1.2 Naming conventions .7 5.1.3 Sources of TP definitions .8 5.1.4 General reference .8 5.1.5 General conditions .8 5.1.6 Default PICS selection .8 5.1.7 Presentation conventions .8 5.2 Test purposes for on-board units .9 5.2.1 Kernel Unit .9 5.2.1.1 Valid behaviour .9 5.2.1.2 Invalid behaviour .9 5.2.2.1 Valid behaviour .1 5.2.2.2 Read access .12 5.2.3.1 Valid behaviour .1 5.2.3.2 Invalid behaviour .2 5.2.3.1 Valid behaviour .27 5.2.4 Optional functionality .27 5.2.4.1 Valid behaviour .27 5.2.4.2 Invalid behaviour .29 5.2.5.5 Security .29 5.2.5.1 Valid behaviour .29 5.2.5.2 Invalid behaviour .29 <td>5</td> <td>Test purposes</td> <td>7</td>	5	Test purposes	7
5.1.2 Naming conventions .7 5.1.3 Sources of TP definitions .8 5.1.4 General reference .8 5.1.5 General conditions .8 5.1.6 Default PICS selection .8 5.1.7 Presentation conventions .8 5.2 Test purposes for on-board units .9 5.2.1 Kernel Unit .9 5.2.1.1 Valid behaviour .9 5.2.1.2 Invalid behaviour .9 5.2.1.2 Invalid behaviour .12 5.2.2.1 Valid behaviour .12 5.2.2.2 Invalid behaviour .16 5.2.3.1 Valid behaviour .17 5.2.3.1 Valid behaviour .27 5.2.3.1 Valid behaviour .27 5.2.4.1 Valid behaviour .27 5.2.4.2 Invalid behaviour .29 5.2.5.5 Security .29 5.2.5.1 Valid behaviour .29 5.2.5.2 Invalid behaviour .29 5.2.5.2 Invalid behaviour .29 </td <td>5.1</td> <td></td> <td></td>	5.1		
5.1.3 Sources of TP definitions 8 5.1.4 General reference 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Kernel Unit 9 5.2.1.1 Valid behaviour 9 5.2.1.2 Invalid behaviour 10 5.2.2.1 Valid behaviour 12 5.2.2.1 Valid behaviour 16 5.2.2.2 Invalid behaviour 17 5.2.3.1 Valid behaviour 17 5.2.3.1 Valid behaviour 27 5.2.3.1 Valid behaviour 27 5.2.4.1 Valid behaviour 27 5.2.4.2 Invalid behaviour 29 5.2.5.5 Security 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 29 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 <tr< td=""><td>5.1.1</td><td>Definition conventions</td><td>7</td></tr<>	5.1.1	Definition conventions	7
5.1.4 General reference 8 5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Kernel Unit 9 5.2.1.1 Valid behaviour 10 5.2.2 Read access 12 5.2.2.1 Valid behaviour 12 5.2.2.2 Invalid behaviour 12 5.2.2.3 Write Access 17 5.2.3.1 Valid behaviour 27 5.2.3.2 Invalid behaviour 27 5.2.4.1 Valid behaviour 27 5.2.4.2 Invalid behaviour 27 5.2.4.1 Valid behaviour 29 5.2.5.2 Security 29 5.2.5.3 Valid behaviour 29 5.2.5.4 Invalid behaviour 29 5.2.5.5 Invalid behaviour 29 5.2.5.1 Valid behaviour 39 5.2.5.2 Invalid behaviour 30 5.2	5.1.2	Naming conventions	7
5.1.5 General conditions 8 5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Kernel Unit 9 5.2.1.1 Valid behaviour 9 5.2.1.2 Invalid behaviour 10 5.2.2.1 Valid behaviour 12 5.2.2.1 Valid behaviour 15 5.2.2.2 Invalid behaviour 17 5.2.3.1 Valid behaviour 17 5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 27 5.2.4.2 Invalid behaviour 29 5.2.5.5 Security 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 30	5.1.3	Sources of TP definitions	8
5.1.6 Default PICS selection 8 5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1 Kernel Unit 9 5.2.1.1 Valid behaviour 10 5.2.1.2 Invalid behaviour 12 5.2.2.1 Valid behaviour 12 5.2.2.1 Valid behaviour 12 5.2.2.2 Invalid behaviour 17 5.2.3.1 Valid behaviour 27 5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 29 5.2.4.2 Invalid behaviour 29 5.2.5.3 Security 29 5.2.5.4 Valid behaviour 29 5.2.5.2 Invalid behaviour 29 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 69 5.2.5.2 Invalid behaviour 58 5.3.1 Kernel Unit 69 5.3.2 Read access 70	5.1.4	General reference	8
5.1.7 Presentation conventions 8 5.2 Test purposes for on-board units 9 5.2.1.1 Kernel Unit 9 5.2.1.1 Valid behaviour 10 5.2.2.2 Invalid behaviour 12 5.2.2.2 Read access 12 5.2.2.2 Invalid behaviour 16 5.2.3.3 Write Access 17 5.2.3.1 Valid behaviour 27 5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 27 5.2.4.2 Invalid behaviour 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.3.3 Test purposes for road side units 58 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 70 5.3.4 Optional functionality 75	5.1.5	General conditions	8
5.2 Test purposes for on-board units 9 5.2.1 Kernel Unit 9 5.2.1.1 Valid behaviour 10 5.2.1.2 Invalid behaviour 12 5.2.2.1 Valid behaviour 12 5.2.2.2 Invalid behaviour 16 5.2.3.1 Valid behaviour 17 5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 27 5.2.4.2 Invalid behaviour 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Security 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 5.3.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75	5.1.6	Default PICS selection	8
5.2.1 Kernel Unit .9 5.2.1.1 Valid behaviour .9 5.2.1.2 Invalid behaviour .10 5.2.2.1 Read access .12 5.2.2.1 Valid behaviour .12 5.2.2.2 Invalid behaviour .16 5.2.3 Write Access .17 5.2.3.1 Valid behaviour .27 5.2.2.4 Optional functionality .27 5.2.4.1 Valid behaviour .27 5.2.4.2 Invalid behaviour .29 5.2.5 Security .29 5.2.5.1 Valid behaviour .29 5.2.5.2 Invalid behaviour .69 5.3.3 Test purposes for road side units .69 5.3.1 Kernel Unit .69 5.3.2 Read access .70 5.3.3 Write access .72	5.1.7	Presentation conventions	8
5.2.1.1 Valid behaviour 9 5.2.1.2 Invalid behaviour 10 5.2.2 Read access 12 5.2.2.1 Valid behaviour 12 5.2.2.2 Invalid behaviour 16 5.2.3.3 Write Access 17 5.2.3.1 Valid behaviour 27 5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 29 5.2.4.2 Invalid behaviour 29 5.2.5.3 Security 29 5.2.5.4 Valid behaviour 29 5.2.5.2 Invalid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 69 5.3.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5	5.2	Test purposes for on-board units	9
5.2.1.2 Invalid behaviour 10 5.2.2 Read access 12 5.2.2.1 Valid behaviour 16 5.2.2.2 Invalid behaviour 16 5.2.3 Write Access 17 5.2.3.1 Valid behaviour 17 5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 27 5.2.4.2 Invalid behaviour 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 5.3.3 Test purposes for road side units 58 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 75	5.2.1	Kernel Unit	9
5.2.2 Read access 12 5.2.2.1 Valid behaviour 16 5.2.2.2 Invalid behaviour 16 5.2.3 Write Access 17 5.2.3.1 Valid behaviour 27 5.2.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 27 5.2.4.2 Invalid behaviour 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77 5.3.5 Security 77	5.2.1.1		
5.2.2.1 Valid behaviour 12 5.2.2.2 Invalid behaviour 16 5.2.3 Write Access 17 5.2.3.1 Valid behaviour 27 5.2.2.2 Invalid behaviour 27 5.2.4.1 Valid behaviour 27 5.2.4.2 Invalid behaviour 29 5.2.5.3 Security 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77	5.2.1.2		
5.2.2.2 Invalid behaviour 16 5.2.3 Write Access 17 5.2.3.1 Valid behaviour 17 5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 29 5.2.4.2 Invalid behaviour 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77	5.2.2		
5.2.3 Write Access 17 5.2.3.1 Valid behaviour 17 5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 29 5.2.4.2 Invalid behaviour 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 5.3.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77	5.2.2.1		
5.2.3.1 Valid behaviour 17 5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 29 5.2.4.2 Invalid behaviour 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 5.3.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77	5.2.2.2	2 Invalid behaviour	16
5.2.3.2 Invalid behaviour 27 5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 29 5.2.4.2 Invalid behaviour 29 5.2.5 Security 29 5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.3.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77	5.2.3		
5.2.4 Optional functionality 27 5.2.4.1 Valid behaviour 29 5.2.4.2 Invalid behaviour 29 5.2.5.5 Security 29 5.2.5.1 Valid behaviour 42 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.3.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77			
5.2.4.1 Valid behaviour 27 5.2.4.2 Invalid behaviour 29 5.2.5 Security 29 5.2.5.1 Valid behaviour 42 5.2.5.2 Invalid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77			
5.2.4.2 Invalid behaviour 29 5.2.5 Security 29 5.2.5.1 Valid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 5.3.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77		<u>.</u>	
5.2.5 Security 29 5.2.5.1 Valid behaviour 42 5.2.5.2 Invalid behaviour 58 5.2.5.2 Invalid behaviour 58 5.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77			
5.2.5.1 Valid behaviour 29 5.2.5.2 Invalid behaviour 42 5.2.5.2 Integrity constraints 58 5.2.5.2 Invalid behaviour 58 5.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77			
5.2.5.2 Invalid behaviour 42 5.2.6 Integrity constraints 58 5.2.5.2 Invalid behaviour 58 5.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77			
5.2.6 Integrity constraints 58 5.2.5.2 Invalid behaviour 58 5.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77			
5.2.5.2 Invalid behaviour 58 5.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77			
5.3 Test purposes for road side units 69 5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77		· ·	
5.3.1 Kernel Unit 69 5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77			
5.3.2 Read access 70 5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77	5.3	1 1	
5.3.3 Write access 72 5.3.4 Optional functionality 75 5.3.5 Security 77			
5.3.4 Optional functionality			
5.3.5 Security			
•		<u>.</u>	
History 83	5.3.5	Security	77
(115tO1)	Histor	ry	83

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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 the present document 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 http://docbox.etsi.org/Reference.

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

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 (1994): "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 purposes of the present document, the terms and definitions given in [1] and [3] apply.

3.2 Abbreviations

For the purposes 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.

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

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

4.2 Test groups

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

4.3 Type of SUT

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

4.4 Behaviour test groups

4.4.1 Valid behaviour tests

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

4.4.2 Invalid behaviour tests

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

5 Test purposes

5.1 Introduction

5.1.1 Definition conventions

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

Table 2: TP definition rules

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

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

5.1.2 Naming conventions

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

Table 3: TP naming convention

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

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

5.1.3 Sources of TP definitions

All TPs are specified according to the base standard 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 TS 102 708-2-1 [2].

5.1.5 General conditions

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

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

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

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

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

Additional pre-conditions may apply for specific TPs.

5.1.6 Default PICS selection

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

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

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

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

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

5.1.7 Presentation conventions

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

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

with Open-Rq sent first.

5.2 Test purposes for on-board units

5.2.1 Kernel Unit

5.2.1.1 Valid behaviour

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

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

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

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

Expected behaviour

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

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

5.2.1.2 Invalid behaviour

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

```
TP/OBU/AL/KU/BI/02
                         Verify that the IUT supporting the EETS profile can manage Select-TBA-Id-Rq with an invalid
                         value
                         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 "initial state"
   and the IUT having received a valid Open-Rq | Close-Rq with new private LinkID
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open | Select-TBA-Id-Rq | Close-Rq with new private LinkID and with "Responding AP
       Title" set equal to a value different to "Called AP Title" as sent in the initial conditions
   then {
       the IUT does not respond
       }
```

```
TP/OBU/AL/KU/BI/03
                         Verify that the IUT not supporting the EETS profile can manage Select-TBA-Id-Rq with an
                         invalid value
                         Reference:
                                       Clauses 11.5.4, 11.6.1, 11.6.2 and 11.6.5
                         PICS Selection: Table A.4/5 AND Table A.4/6 AND NOT Table A.2/1
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT having 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" (different from
       valid values specified by the applicant)
   then {
       the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '06'H
       }
```

5.2.2 Read access

5.2.2.1 Valid behaviour

```
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 the "initial state"
                                                Expected behaviour
ensure that {
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Master Core
   when {
      the IUT receives a valid Open-Rq | Read-Master-Core-Rq | Close-Rq with new private LinkID and with valid
      combinations of "Offset" and "Length" in Read-Master-Core-Rq in order to retrieve a part of or the whole master
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, and with the data of "Read-
      Master-Core-Rs" as specified by the applicant for the selected range
```

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 {				
repeat with different of	repeat with different combinations of "Offset" and "Length" parameters in order to cover the whole Master Core			
when {	when {			
	a valid Read-Master-Core-Rq with broadcast LinkID and with valid combinations of "Offset" and			
"Length" in Read-	"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" as specified by the applicant for the selected range				
}				
}				

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

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

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

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

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

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

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

5.2.2.2 Invalid behaviour

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

TP/OBU/AL/RA/BI/02	Verify that the IUT can manage Open-Rq Read-Appl-Record-Rq Close-Rq with support for		
	the European profile with wrong values for Displacement and Length and no support for security		
	level 1		
	Reference: Clauses 11.5.13, 11.6.2, 11.6.14 and D.2.3		
	PICS Selection: Table A.2/1 AND Table A.4/23 AND Table A.4/24 AND NOT Table A.2/3		
	Initial conditions		
with {			
the IUT being in	the "initial state"		
}			
,	Expected behaviour		
ensure that {	<u>.</u>		
,	private LinkID and different invalid combinations of "Offset" parameter, and "Length" parameter,		
	whole Application Record not respecting the limit of Record Length of 8 octets		
when {	#p		
	a valid Open-Rq Read-Appl-record-Rq Close-Rq with new private LinkID and with invalid		
	"Offset" and "Length" in Read-Appl-Record-Rg in order to retrieve a part of or the whole		
application recor	· · · · · · · · · · · · · · · · · · ·		
1			
then {			
,	the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H, and with no read data		
1 Saucs a response with result set to 1311 and Diagnostic set to 0411, and with no read data			
}			
}			

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

5.2.3 Write Access

5.2.3.1 Valid behaviour

```
TP/OBU/AL/WA/BV/01
                         Verify that the IUT can manage Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Close-Rq
                          with no restrictions due to EETS profile and with no support for security level 1
                          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 OR Table A.2/3)
                                                   Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Core
with {
       the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with valid
    combinations of "Offset" and "Length" in Read-Appl-Core-Rq in order to retrieve a part of or the whole application
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Note the value of
    "Called AP Title" and the data received
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-Rq | Close-Rq with new private LinkID
      and with the same values of "Offset" and "Length" as in the previous Read-Appl-Core-Rq in order to write different
      data in the same position as the data previously received
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                   Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with the same
       values of "Offset" and "Length" as used previously and with "Responding AP Title" set equal to the value of
       "Called AP Title" noted previously
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are
      the same as the data sent previously
```

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

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

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

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

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

```
Clauses 11.5.14, 11.6.2 and 11.6.15
                        Reference:
                        PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.4/25 AND Table A.4/26 AND
                         NOT Table A.2/3
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
   the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
   valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
   and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
      the IUT receives a valid Open-Rg | Select-TBA-Id-Rg | Write-Appl-Record-Curr-Rg | Read Appl-Record-Rg |
      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/08
                        Verify that the IUT can manage Write-Appl-Record-Curr-Conf-Rg with no support for security
                         level 1
                         Reference:
                                       Clauses 11.5.15, 11.6.2 and 11.6.16
                         PICS Selection: Table A.4/27 AND Table A.4/28 AND NOT Table A.2/3
                                                   Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rg | Read-Appl-Record-Rg | Close-Rg with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Close-Rq with new
       private LinkID and with the same value of "Offset" and "Length" as used in the initial conditions and with
       "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                   Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rg | Select-TBA-Id-Rg | Read-Appl-Record-Rg | Close-Rg with new private LinkID
       and with the same values of "Offset" and "Length" as used previously and with "Responding AP Title" set equal to
       the value of "Called AP Title" noted previously
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are
       the same as the data sent previously
                        Verify that the IUT can manage Write-Appl-Record-Curr-Conf-Rq | Read-Appl-Record-Rq with
TP/OBU/AL/WA/BV/09
                         no support for security level 1
                         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 AND
                         NOT Table A.2/3
                                                  Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rg | Select-TBA-Id-Rg | Write-Appl-Record-Curr-Conf-Rg | Read_Appl-Record-Rg |
       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 with
                        no support for security level 1
                        Reference:
                                      Clauses 11.5.15, 11.6.2 and 11.6.16
                        PICS Selection:
                                         Table A.4/27 AND Table A.4/28 AND NOT Table A.2/3
                                                  Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
    "Offset" set to zero and "Length" set to the maximum length D provided by the applicant in order to retrieve the whole
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq("Offset"=0, "Length"=A) |
       Write-Appl-Record-Curr-Conf -Rq("Offset"=A, "Length"=B) | Write-Appl-Record-Curr-Conf-Rq("Offset"=A+B,
       "Length"=C) | Read-Appl-Record-Rq("Offset"=0, "Length"=A+B+C=D) | Close-Rq with new private LinkID and with
       "Responding AP Title" set to the value of "Called AP Title" as sent in the initial conditions
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are
       the same as the data sent previously.
       }
                        Verify that the IUT can manage Write-Appl-Record-Next-Rq with no support for European
TP/OBU/AL/WA/BV/11
                         Profile and no support for security level 1
                                      Clauses 11.5.16, 11.6.2 and 11.6.17
                        Reference:
                        PICS Selection: Table A.4/29 AND Table A.4/30 AND NOT (Table A.2/1 OR Table A.2/3)
                                                  Initial conditions
   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-AppI-Record-Next-Rq | Close-Rq with new private LinkID and with the same value of "Offset" and "Length" as used in the initial conditions and with "Responding AP Title" set to the value of "Called AP Title" sent in the initial conditions and "Data" set to '0'B in order to write all-zero data to the next application record, which by this command will become the current record
    }
    then {
        the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
    }
}
```

Final Conditions

```
ensure that {
    when {
        the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with the same value of "Offset" and "Length" as used previously and with "Responding AP Title" set equal to the value of "Called AP Title" used previously in order to retrieve data from the application record }
    then {
        the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are identical to those sent previously
    }
```

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

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

```
TP/OBU/AL/WA/BV/14
                         Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rg with no support for security
                         level 1 and no support for the European profile
                                       Clauses 11.5.17, 11.6.2 and 11.6.18
                         Reference:
                         PICS Selection: Table A.4/31 AND Table A.4/32 AND NOT (Table A.2/3 OR Table A.2/1)
                                                   Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
   the IUT being in the "initial state"
    and the IUT having received a valid Open-Rg | Read-Appl-Record-Rg | Close-Rg with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Record-Rq
    and the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Close-Rq with new
      private LinkID and with the same value of "Offset" and "Length" as in the initial conditions and with "Responding
       AP Title" set equal to the value of "Called AP Title" as sent in the initial conditions and "Data" set to '1'B in order to
       write all-one data to the next application record, which by this command will become the current record
   then {
      the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                   Final Conditions
ensure that {
   when {
       the IUT receives a valid Open-Rg | Select-TBA-Id-Rg | Read-Appl-Record-Rg | Close-Rg with new private LinkID
       and with the same value of "Offset" and "Length" as used previously and with "Responding AP Title" set equal to
       the value of "Called AP Title" noted previously in order to retrieve data from the application record
   then {
       the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H. Verify that the data received are
       identical to those sent previously
       }
 TP/OBU/AL/WA/BV/15
                           Verify that the IUT can manage Write-Appl-Record-Next-Conf-Rq | Read-Appl-Record-Rq
                           with no support for security level 1 and no support for the European profile
                                        Clauses 11.5.17, 11.6.2 and 11.6.18
                           Reference:
                           PICS Selection: Table A.4/23 AND Table A.4/24 AND Table A.4/31 AND Table A.4/32 AND
                           NOT (Table A.2/3 OR Table A.2/1)
                                                   Initial conditions
   repeat with different private LinkID and different combinations of "Offset" and "Length" parameters in order to cover
   the whole Application Record
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Read-Appl-Record-Rq | Close-Rq with new private LinkID and with
    valid combinations of "Offset" and "Length" in Read-Appl-Record-Rg
    the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Read-Appl-Record-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. Verify that the data received are
       identical to those sent previously
```

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

5.2.3.2 Invalid behaviour

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

5.2.4 Optional functionality

5.2.4.1 Valid behaviour

```
TP/OBU/AL/OF/BV/02 | Verify that the IUT can manage the Action-Rq (covers also Write-Data-To-External-Rq 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 the "initial state"
                                                      Expected behaviour
repeat for all actions specified by the applicant
ensure that {
   when {
       the IUT receives a valid Open-Rq | Action-Rq | Close-Rq with new private LinkID and with parameters as
       specified by the applicant
   then {
       Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H, and providing
       response parameters as specified by the applicant
```

	Joseph Athon H.T. com manage the Cat HIE Day
	Verify that the IUT can manage the Set-UIF-Rq
Į <u>F</u>	Reference: Clauses 11.5.18, 11.6.2 and 11.6.19
F	PICS Selection: Table A.4/33 AND Table A.4/34
Initial conditions	
with {	
the IUT being in the "initial state"	
}	
Expected behaviour	
ensure that {	
when {	
the IUT receives a valid Open-Rq Set-UIF-Rq Set-UIF-Rq Close-Rq with new private LinkID. The parameters for the two Set-UIF-Rq primitives shall be:	
"Video" set to '00'H in all three Set-UIF-Rg directives	
 "Audio" set to '01'H in the first Set-UIF-Rq directive, and '02'H in the second Set-UIF-Rq directive. 	
• "Time" set to 1	
 "Count" set to 1 in the first Set-UIF-Rg directive, and 2 in the second Set-UIF-Rg directive 	
}	1
then {	
Verify that the IUT generates two different audio signals, with 1, and 2 repetitions, respectively	
}	
)	

5.2.4.2 Invalid behaviour

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

5.2.5 Security

5.2.5.1 Valid behaviour

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

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

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

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

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

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

```
TP/OBU/AL/SC/BV/07
                         Verify that the IUT can manage Get-Credential-Rq with support for the EETS profile
                                       Clauses 11.5.24, 11.6.2 and 11.6.25
                         Reference:
                         PICS Selection: Table A.2/2 AND Table A.4/45 AND Table A.4/46 AND Table A.5/09 AND
                         Table A.5/11 AND Table A.2/1
                                                  Initial conditions
with {
    the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Read-Appl-Core-Rq | Close-Rq with new private LinkID and with
   value '0'D for "Displacement" and '14'D for "Length" in Read-Appl-Core-Rq
    and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
                                                Expected behaviour
Repeat 8 times varying the key used to generate credentials.
ensure that {
   when {
       Tester having computed credentials according to the data received, a randomly generated number of 10 octets
       and one of the available kevs
       and the IUT receives a valid Open-Rq | Get-Credential-Rq | Close-Rq with the same values for "Offset" and
       "Length" as used in the initial conditions, with values of '4'D for "Nonce-len" parameter and "Nonce"
       corresponding to the generated random number and with a value for the "Key" parameter indicating the key used
      for computation of the credentials
   then {
       Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00' and with a value for
      the received credentials equal to the computed value
      }
```

```
TP/OBU/AL/SC/BV/08
                         Verify that the IUT can manage Get-TBA-Random-Rq with support for the EETS profile
                                      Clauses 11.5.22, 11.6.2 and 11.6.23
                         Reference:
                         PICS Selection: Table A.2/1 AND Table A.2/3 AND Table A.4/41 AND Table A.4/42
                                                  Initial conditions
with {
       the IUT being in the "initial state"
                                                Expected behaviour
Repeat 100 times
ensure that {
       when {
          the IUT receives a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with a value
          of '4'D for "Length" in Get-TBA-Random-Rq
          }
       then {
          Verify reception of a response message with "Result" set to '06'H and "Diagnostic" set to '00'H. Note the data
          retrieved
          }
   }
                                                  Final Conditions
ensure that the set of random values received in the test execution presents a reasonable uniform distribution.
```

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

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

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

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

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

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

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

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

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

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

}

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

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

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

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

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
with {
       the IUT being in the "initial state" AND the password to be used in the OBU is accessed according to the applicant
    specifications, and recorded in an external media
                                                    Expected behaviour
ensure that {
   when {
       the IUT receives a sequence Open-Rq | Set-Password-Rq with new private LinkID and with invalid value of
       "Length" in Set-Password-Rg and the value of the transmitted password set to a value different from that of the
       original password
   then {
       Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04', Verify that the
       password to be used remains set to its original value, by accessing the OBU according to the applicant
       specifications
```

```
TP/OBU/AL/SC/BI/02
                          Verify that the IUT can manage Get-TBA-Random with invalid length
                                       Clauses 11.5.22, 11.6.2 and 11.6.23
                          Reference:
                          PICS Selection:
                                           Table A.4/41 AND Table A.4/42
                                                 Initial conditions
with {
      the IUT being in the "initial state"
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a sequence Open-Rg | Get-TBA-Random-Rg 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 "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
    and Tester having retrieved data from the OBU according to the field and length as specified by the applicant for
   calculating credentials and having computed its credentials based on the random number received after the
   Get-TBA-Random-Rq and the data previously received. The value of the credentials is then modified
                                                Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials"
       according to the value computed in the initial conditions
   then {
       Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04'H
      }
```

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

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 "No	with a value for "Nonce-len" parameter different from '4'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
                                        Clauses 11.5.24, 11.6.2 and 11.6.25
                          Reference:
                          PICS Selection: Table A.4/45 AND Table A.4/46 AND Table A.5/09 AND Table A.5/11 AND
                          Table A.2/1
                                                  Initial conditions
with {
       the IUT being in the "initial state"
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rq | Get-Credential-Rq | Close-Rq with values of '10'D for "Nonce-len" parameter
       and "Nonce" corresponding to a generated random number but with an invalid value for the "Key" parameter
      indicating the key used for computation of the credentials.
   then {
       Verify reception of a response message with "Result" set to '15'H and "Diagnostic" set to '04'.
```

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

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

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

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

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

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

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

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

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

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

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

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

```
TP/OBU/AL/SC/BI/20
                          Verify that the IUT can manage a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Core-
                          Rq | Close-Rq with invalid Calling Application Title when security level 1 is selected
                          Reference:
                                        Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2
                          PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND Table A.2/3
                                                   Initial conditions
with {
    the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rq
   and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
    and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
    calculating credentials and having computed its credentials based on the random number received after the
    Get-TBA-Random-Rg and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester;
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Open-Rg | Select-TBA-Id-Rg | Write-Appl-Core-Rg | Close-Rg with the previously received
      LinkID and with valid values of "Offset" and "Length" and with "Responding AP Title" set to the value of "Called
       AP Title" sent in the initial conditions, but with a Calling AP Title value different from the previously received value.
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
      }
```

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

```
TP/OBU/AL/SC/BI/22
                          Verify that the IUT can manage a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-
                          Record-Curr-Rq | Close-Rq with invalid LinkID when security level 1 is selected
                                       Clauses 11.5.9, 11.6.2, 11.6.10 and D.2.2
                          Reference:
                          PICS Selection: Table A.4/15 AND Table A.4/16 AND Table A.2/1 AND Table A.2/3
                                                   Initial conditions
with {
    the IUT being in the "initial state"
   and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with
   valid value of "Length" in Get-TBA-Random-Rg
    and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00'
    and tester having retrieved data from the OBU according to the field and length as specified by the applicant for
    calculating credentials and having computed its credentials based on the random number received after the
    Get-TBA-Random-Rq and the data previously received
   and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and
    "Credentials" as evaluated by tester:
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                Expected behaviour
ensure that {
       the IUT receives a valid Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Rq | Close-Rq with a new LinkID
      and with valid values of "Offset" and "Length" and with "Responding AP Title" set to the value of "Called AP Title"
       sent in the initial conditions
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
```

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

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

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

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

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

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

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

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

57 ETSI TS 102 708-2-2 V1.4.1 (2013-03) TP/OBU/AL/SC/BI/31 Verify that the IUT handles a too big number of directives in a single frame and support for security level 1 Reference: Clauses 11.5.1 and 11.6.1 PICS Selection: Table A.3/1 AND Table A.2/3 **Initial conditions** with { the IUT being in the "initial state" and the IUT having received a valid Open-Rq | Get-TBA-Random-Rq | Close-Rq with new private LinkID and with valid value of "Length" in Get-TBA-Random-Rg and the IUT having issued a response message with "Result" set to '06'H and "Diagnostic" set to '00' and tester having retrieved data from the OBU according to the field and length as specified by the applicant for calculating credentials and having computed its credentials based on the random number received after the Get-TBA-Random-Rq and the data previously received and the IUT having received a valid Open-Rq | Set-Credential-Rq | Close-Rq with values for "Length" and "Credentials" as evaluated by tester; and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H **Expected behaviour** ensure that { when { the IUT receives an Open-Rq | Read-Appl-Core-Rq ("Offset"=47, "Length"=2) | Close-Rq with new private LinkID and with "Number of Directives" set to 1 then { the IUT issues a response with "Result" set to '06'H and "Diagnostic" set to '00'H, but with no data, to show that only Open-Rq has been performed when { the IUT receives a valid Write-Appl-Core-Rq ("Offset"=47, "Length"=2) | Close-Rq with private LinkID as used previously and with "Number of Directives" set to 1

5.2.6 Integrity constraints

5.2.5.2 Invalid behaviour

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

Initial conditions

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

Expected behaviour

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

TD/0011/41/10/01/00	The second secon		
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	ı the "initial state"		
}			
	Expected behaviour		
ensure that {			
when {			
the IUT receives	s a valid Close-Rg with broadcast LinkID		
}	·		
then {			
the IUT issues a	a response with "Result" set to '15'H and "Diagnostic" set to '02'H and no data		
}			
}			

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

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

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

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

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

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

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

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

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

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

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

```
TP/OBU/AL/IC/BI/14
                        Verify that the IUT correctly identifies an invalid Write-Appl-Record-Curr-Conf-Rq following a valid
                        termination request of an existing session and no support for security level 1
                       Reference:
                                     Clauses 11.6.2 and 11.6.4
                                        Table A.4/27 AND Table A.4/28 AND NOT Table A.2/3
                       PICS Selection:
                                                   Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Curr-Conf-Rq with broadcast LinkID and with valid combinations of
       "Offset" and "Length" in Write-Appl-Record-Curr-Conf-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/15
                       Verify that the IUT correctly identifies an invalid Write-Appl-Record-Next-Rq following a valid
                       termination request of an existing session
                                     Clauses 11.6.2 and 11.6.4
                       Reference:
                       PICS Selection: Table A.4/29 AND Table A.4/30 AND NOT (Table A.2.1 OR Table A.2/3)
                                                   Initial Conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Write-Appl-Record-Next-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 AND NOT (Table A.2/1 OR Table A.2/3)
                                                   Initial Conditions
with {
    the IUT being in the "initial state"
    and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
       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-Rg in order to write a part of or the whole current application record
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
```

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

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

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

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

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

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

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

```
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 "initial state"
    and the IUT having received a valid Open-Rq | Close-Rq with a new private LinkID
    and the IUT having issued a response with "Result" set to '06'H and "Diagnostic" set to '00'H
                                                 Expected behaviour
ensure that {
   when {
       the IUT receives a valid Read-Display-Type-Rq with LinkID as used previously and with validCalled AP Title
      }
   then {
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '02'H
          }
```

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

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

```
TP/OBU/AL/IC/BI/27
                         Verify that the IUT correctly handles a too small number of directives in a single frame
                         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-Rq | Read-Master-Core-Rq ("Offset"=0, "Length"=1) | Close-Rq with new private LinkID
      and with "Number of Directives" set to 4
      the IUT issues a response with "Result" set to '15'H and "Diagnostic" set to '04'H
      }
```

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

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

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

5.3 Test purposes for road side units

5.3.1 Kernel Unit

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

```
TP/RSU/AL/KU/BV/02
                        Verify that the IUT can establish a connection with a specific OBU
                        Reference: Clauses 11.5.4 and 11.6.5
                        PICS Selection: Table B.4/5 AND Table B43/6
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT knows the value of "Responding AP Title" used by the tester
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Close-Rg 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	TP/RSU/AL/RA/BV/01 Verify that the IUT can read specific fields of the master core			
	Reference: Clauses 11.5.6 and 11.6.7			
	PICS Selection: Table B.4/9 AND Table B.4/10			
	Initial conditions			
with {				
the IUT being in the "	'initial state"			
and the IUT is stimula	and the IUT is stimulated to send the sequence Open-Rq Read-Master-Core-Rq Close-Rq with new private LinkID and with given values of "Offset" and "Length" in Read-Master-Core-Rq			
and the IUT issues a "Length"	sequence of Open-Rq Read-Master-Core-Rq Close-Rq with correct values of "Offset" and			
}				
	Expected behaviour			
ensure that {	•			
when {				
the IUT receives a	a valid sequence Open-Rs Read-Master-Core-Rs Close-Rs with "Result" set to '06'H and			
"Diagnostic" set to	"Diagnostic" set to '00'H, and with valid read-data			
}				
then {				
the IUT is not re-issuing the sequence Open-Rq Read-Master-Core-Rq Close-Rq within the allowed time span				
}				
}				

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

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

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

5.3.3 Write access

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

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

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

```
TP/RSU/AL/WA/BV/04
                         Verify that the IUT can write to the current application record with deferred confirmation and no
                         support for security level 1
                         Reference: Clauses 11.5.15 and 11.6.16
                         PICS Selection: Table B.4/27 AND Table B.4/28 AND NOT Table B.2/3
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT knows the value of "Responding AP Title" used by the tester
   and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq |
    Close-Rq with known values of "Offset" and "Length", "Responding AP Title" and write-data
    and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Close-Rq with valid
    values of "Offset", "Length", "Responding AP Title" and write-data
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Curr-Conf-Rs | Close-Rs with
      "Result" set to '06'H and "Diagnostic" set to '00'H
   then {
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Curr-Conf-Rq | Close-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
                                      Clauses 11.5.17 and 11.6.18
                         Reference:
                        PICS Selection:
                                          Table B.4/31 AND Table B.4/32 AND NOT Table B.2/1
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT knows the value of "Responding AP Title" used by the tester
  and the IUT is stimulated to send the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq |
  Close-Rq with known values of "Offset" and "Length", "Responding AP Title" and write-data
  and the IUT issues a sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Close-Rq with valid
  values of "Offset", "Length", "Responding AP Title" and write-data
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Select-TBA-Id-Rs | Write-Appl-Record-Next-Conf-Rs | Close-Rs with
      "Result" set to '06'H and "Diagnostic" set to '00'H
      }
      the IUT is not re-issuing the sequence Open-Rq | Select-TBA-Id-Rq | Write-Appl-Record-Next-Conf-Rq | Close-Rq
      within the allowed time span
      }
```

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

5.3.4 Optional functionality

```
TP/RSU/AL/OF/BV/01
                        Verify that the IUT can issue a Read-Display-Type-Rq
                        Reference: Clauses 11.5.5 and 11.6.6
                        PICS Selection: Table B.4/7 AND Table B.4/8 AND Table A.5/6
                                                  Initial conditions
with {
   the IUT being in the "initial state"
   and the IUT is stimulated to send the sequence Open-Rq | Read-Display-Type-Rq | Close-Rq
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Read-Display-Type-Rs | Close-Rs with "Result" set to '06'H and
      "Diagnostic" set to '00'H, and indicating a valid display type
   then {
      verify that the IUT has correctly received the sequence
      }
```

```
TP/RSU/AL/OF/BV/02
                        Verify that the IUT accepts display type '41'H as response to Read-Display-Type-Rq
                        Reference:
                                      Clauses 11.5.5 and 11.6.6
                        PICS Selection: Table B.4/7 AND Table B.4/8 AND Table A.5/6
                                                  Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT is stimulated to send the sequence Open-Rq | Read-Display-Type-Rq | Close-Rq
                                                Expected behaviour
ensure that {
   when {
      the IUT receives 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.
```

```
TP/RSU/AL/OF/BV/03
                        Verify that the IUT accepts display type '4E'H as response to Read-Display-Type-Rq
                        Reference: Clauses 11.5.5 and 11.6.6
                        PICS Selection: Table B.4/7 AND Table B.4/8 AND Table A.5/6
                                                  Initial conditions
with {
   the IUT being in the "initial state"
    and the IUT is stimulated to send the sequence Open-Rq | Read-Display-Type-Rq | Close-Rq
                                                Expected behaviour
ensure that {
   when {
      the IUT receives 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)
                                      Clauses 11.5.11, 11.5.12, 11.5.19, 11.6.12, 11.6.13 and 11.6.20
                        Reference:
                        PICS Selection: Table B4/19 AND Table B.4/20 AND Table B.4/21 AND Table B.4/22 B.4/35
                        AND Table B.4/36 AND Table B.9/13
                                                  Initial conditions
with {
    the IUT being in the "initial state"
    and the IUT is stimulated to send the sequence Open-Rq | Action-Rq | Close-Rq with known Action-Rq parameter as
    specified by the applicant
                                                Expected behaviour
ensure that {
   when {
      the IUT receives a valid sequence Open-Rs | Action-Rs | Close-Rs with "Result" set to '06'H and "Diagnostic" set
      to '00'H and with valid Action-Rs parameter
   then {
       verify that the IUT has correctly received the sequence
      }
```

TD/DCLL/AL/OF/DV/OF	North and the second of the se			
TP/RSU/AL/OF/BV/05	1000)			
	Reference: Clauses 11.5.19 and 11.6.20			
	PICS Selection: Table B.4/35 AND Table B.4/36 AND Table B.9/13			
	Initial conditions			
with {				
the IUT being in the	"initial state"			
and the IUT is stimul	ated to send the sequence Open-Rq Action-Rq Close-Rq with known Action-Rq parameter as			
specified by the appl	icant			
}				
	Expected behaviour			
ensure that {				
when {				
the IUT receives	a valid sequence Open-Rs Action-Rs Close-Rs with "Result" set to '06'H and "Diagnostic" set			
to '00'H and with	valid Action-Rs parameter			
}				
then {				
the IUT is not re-i	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 {
      the IUT is stimulated to send Open-Rq | Set-UIF-Rq | Set-UIF-Rq | Close-Rq with new private LinkID. The
          parameters for the two Set-UIF-Rq primitives shall be:
          "Video" set to '00'H in both Set-UIF-Rq directives
          "Audio" set to '01'H in the first Set-UIF-Rq directive, 'and to 02'H in the second Set-UIF-Rq directive
          "Time" set to 1
          "Count" set to 1 in the first Set-UIF-Rq directive, and to 2 in the second Set-UIF-Rq directive
      }
   then {
      verify reception of Open-Rq | Set-UIF-Rq | Set-UIF-Rq | Close-Rq with valid values for all parameters
```

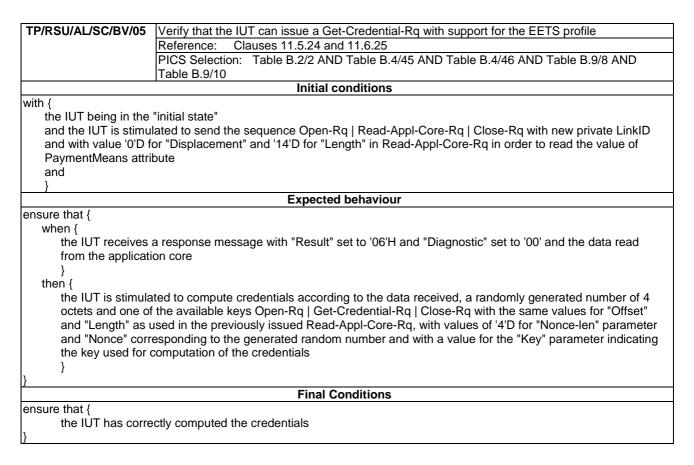
5.3.5 Security

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

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

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

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



TP/RSU/AL/SC/BV/06 Verify that the IUT can read specific fields of the application core		
with support of security level 1		
	Reference: Clauses 11.5.8 and 11.6.9	
	and D.2.4.3	
	PICS Selection: Table B.4/13 AND Table B	3.4/14
	AND Table B.2/3	
Initial condition	ons	
with {		
the IUT being in the "initial state"		
and Test Purpose TP/RSU/AL/SC/BV/04 success		
and the IUT is stimulated to send the sequence C	Open-Rq Read-Application-Core-Rq	
Close-Rq with the same value of LinkID used pre-	viously and with given values of "Offset"	
and "Length" in Read-Application-Core-Rq		
and the IUT issues a sequence of Open-Rq Rea	id-Application-Core-Rq Close-Rq with	
correct values of "Offset" and "Length"		
}		
Expected behave	viour	
ensure that {		
when {		
the IUT receives a valid sequence Open-Rs F	Read-Application-Core-Rs Close-Rs with	
"Result" set to '06'H and "Diagnostic" set to '00		
}		
then {		
the IUT is not re-issuing the sequence Open-R		
within the allowed time span		
}		
}		

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

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

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

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

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

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

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

History

Document history		
V1.1.1	March 2010	Publication
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