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Smart Cards; Test specification for the Remote APDU structure for UICC based applications; UICC features (Release 11) Reference

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RTS/SET-00RAMtestv110200

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## Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Secure Element Technologies (SET).

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where:

- x the first digit:
  - 0 early working draft;
  - 1 presented to TC SET for information;
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  - 3 or greater indicates TC SET approved document under change control.
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- z the third digit is incremented when editorial only changes have been incorporated in the document.

# Modal verbs terminology

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

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

# Introduction

The present document defines test cases for the UICC relating to Remote APDU structure for UICC based applications as specified in ETSI TS 102 226 [1].

# 1 Scope

The present document covers the minimum characteristics considered necessary for the UICC in order to provide compliance to ETSI TS 102 226 [1].

It specifies conformance test cases for the UICC relating to Remote APDU structure for UICC based applications as specified in ETSI TS 102 226 [1].

# 2 References

## 2.1 Normative references

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

• In the case of a reference to a TC SET document, a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.

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

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

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

[1] ETSI TS 102 226: "Smart Cards; Remote APDU structure for UICC based applications". [2] ETSI TS 102 225: "Smart Cards; Secured packet structure for UICC based applications". ETSI TS 102 221: "Smart Cards; UICC-Terminal interface; Physical and logical characteristics". [3] [4] ETSI TS 102 223: "Smart Cards; Card Application Toolkit (CAT) (Release 9)". GlobalPlatform: "Card Specification Version 2.2.1". [5] NOTE: Available at http://www.globalplatform.org/. ETSI TS 101 220: "Smart Cards; ETSI numbering system for telecommunication application [6] providers". [7] ETSI TS 102 241: "Smart Cards; UICC Application Programming Interface (UICC API) for Java Card TM". GlobalPlatform: "GlobalPlatform Card Specification Version 2.0.1". [8] NOTE: Available at http://www.globalplatform.org/. ETSI TS 102 222: "Integrated Circuit Cards (ICC); Administrative commands for [9] telecommunications applications". ETSI TS 123 048: "Digital cellular telecommunications system (Phase 2+); Universal Mobile [10] Telecommunications System (UMTS); Security mechanisms for the (U)SIM application toolkit; Stage 2 (3GPP TS 23.048)". ETSI TS 102 127: "Smart Cards; Transport protocol for CAT applications; Stage 2". [11] ETSI TS 143 019: "Digital cellular telecommunications system (Phase 2+); Subscriber Identity [12] Module Application Programming Interface (SIM API) for Java Card; Stage 2 (3GPP TS 43.019)".

[13]	FIPS-197 (2001): "Advanced Encryption Standard (AES)".
NOTE:	Available at http://csrc.nist.gov/publications/fips/index.html.
[14]	NIST Special Publication 800-38A (2001): "Recommendation for Block Cipher Modes of Operation - Methods and Techniques".
NOTE:	Available at http://csrc.nist.gov/publications/nistpubs/.
[15]	NIST Special Publication 800-38B (2001): "Recommendation for Block Cipher Modes of Operation: The CMAC Mode for Authentication".
NOTE:	Available at http://csrc.nist.gov/publications/nistpubs/.
[16]	GlobalPlatform: "Card UICC Configuration", Version 1.0.1.
NOTE:	Available at <u>http://www.globalplatform.org/</u> .
[17]	ETSI TS 102 588: "Smart Cards; Application invocation Application Programming Interface (API) by a UICC webserver for Java Card <sup>TM</sup> platform".
[18]	GlobalPlatform: "Confidential Card Content Management Card Specification v2.2 - Amendment A V1.0.1".
NOTE:	Available at <u>http://www.globalplatform.org/</u> .
[19]	GlobalPlatform: "Card Specification Version 2.2, Amendment B" Version 1.1.
NOTE:	Available at <u>http://www.globalplatform.org/</u> .
[20]	ETSI TS 102 483: "Smart cards; UICC-Terminal interface; Internet Protocol connectivity between UICC and terminal".
[21]	ISO/IEC 8825-1: "Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".
[22]	GlobalPlatform: "Card Specification Version 2.2, Amendment C: Contactless Services" Version 1.0.1.
NOTE:	Available at <u>http://www.globalplatform.org/</u> .
[23]	ETSI TS 102 622: "Smart Card; UICC - Contactless Front-end (CLF) Interface; Host Controller Interface (HCI)".
[24]	GlobalPlatform: "Security Upgrade for Card Content Management - GlobalPlatform Card Specification v2.2 - Amendment E".
NOTE:	Available at <u>http://www.globalplatform.org/</u> .
[25]	GlobalPlatform: "Java Card API and Export File for Card Specification v2.2.1 (org.globalplatform) V1.5".
NOTE:	Available at <u>http://www.globalplatform.org/</u> .
[26]	Oracle "Application Programming Interface, Java Card <sup>™</sup> Platform, 3.0.1 Classic Edition".
[27]	Oracle "Runtime Environment Specification, Java Card <sup>™</sup> Platform, 3.0.1 Classic Edition".
[28]	Oracle "Virtual Machine Specification Java Card™ Platform, 3.0.1 Classic Edition".
NOTE:	Oracle Java Card <sup>™</sup> Specifications can be downloaded at <u>http://docs.oracle.com/javame/javacard/javacard.html</u> .
[29]	ISO/IEC 9646-7:1995: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".

[30] ETSI TS 102 230-2: "Smart Cards; UICC-Terminal interface; Physical, electrical and logical test specification; Part 2: UICC features (Release 9)".

## 2.2 Informative references

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

- In the case of a reference to a TC SET document, a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.
- NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

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

Not applicable.

# 3 Definition of terms, symbols, abbreviations and formats

#### 3.1 Terms

For the purposes of the present document, the terms given in ETSI TS 102 226 [1], ETSI TS 102 127 [11] and the following apply:

**Controlling Authority Security Domain (CASD):** on-card controlling entity representing an off card trusted third party

NOTE: It provides services to confidentially load or generate Secure Channel keys of the APSD.

### 3.2 Symbols

Void.

#### 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TS 102 226 [1], ETSI TS 102 127 [11] and the following apply:

ACKnowledge
Access Domain Data
Application Data File
Access Domain Parameter
Advanced Encryption Standard
Application IDentifier
Application Protocol Data Unit
Application Programming Interface
Application Provider Security Domain
Basic Encoding Rules - Tag, Length, Value
Bearer Independent Protocol
Command - Application Protocol Data Unit
Controlling Authority Security Domain
Cell Broadcast Centre

CLA CMAC DAP DEK DES DF ECB ECKA EF HTTP HTTPS ICCID	CLAss Cipher-based Message Authentication Code Data Authentication Pattern Data Encryption Key Data Encryption Standard Directory File Electronic Code Book Elliptic Curve Key Agreement algorithm Elementary File HyperText Transfer Protocol HyperText Transfer Protocol Secure Integrated Circuit Card IDentification
INS	INStruction
ISD	Issuer Security Domain
KIc	Key and algorithm Identifier for ciphering
KID	Key and algorithm IDentifier for RC/CC/DS
MAC	Message Authentication Code
MF	Management Field
MSL	Minimum Security Level
MSLD	Minimum Security Level Data
OTA	Over The Air
PDU	Packet Data Unit
RAM	Remote Application Management
R-APDU	Response - Application Protocol Data Unit
RF	Radio Frequency
RFM	Remote File Management
RFU	Reserved for Future Use
SCP02	Secure Channel Protocol 02
SD	Security Domain
SDU	Service Data Unit
TAR	Toolkit Application Reference
TCP	Transmission Control Protocol
TLV	Tag Length Value

## 3.4 Formats

## 3.4.1 Format of the table of optional features

The columns in table 4.1 have the following meaning.

Column	Meaning						
Option	The optional feature supported or not by the IUT.						
Status	See clause 3.4.3.						
Support	Ort         The support columns are to be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [29], are used for the support column in table 4.1.           Y or y         supported by the implementation.           N or n         not supported by the implementation.           N/A, n/a or -         no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status).						
Mnemonic	The mnemonic column contains mnemonic identifiers for each item.						

## 3.4.2 Format of the applicability table

The applicability of every test in table 4.2 is formally expressed by the use of Boolean expression defined in the following clause.

The columns	in table	4.2 have	the foll	owing	meaning
The columns	in tuble	4.2 nave	the ron	owing	meaning.

Column	Meaning
Clause	The "Clause" column identifies the clause containing the test case referenced in the "Test case number and description" column.
Test case number and description	The "Test case number and description" column gives a reference to the test case number (along with the corresponding description) detailed in the present document and required to validate the IUT.
Release	The "Release" column gives the Release applicable and onwards, for the corresponding test case.
Rel-x UICC	For a given Release, the corresponding "Rel-x UICC" column lists the tests required for a DUT to be declared compliant to this Release.
Support	The "Support" column is blank in the proforma, and is to be completed by the manufacturer in respect of each particular requirement to indicate the choices, which have been made in the implementation.

#### 3.4.3 Status and Notations

The "Rel-x" columns show the status of the entries as follows:

The following notations, defined in ISO/IEC 9646-7 [29], are used for the status column:

М	mandatory - the capability is required to be supported.
---	---------------------------------------------------------

- O optional the capability may be supported or not.
- N/A not applicable in the given context, it is impossible to use the capability.
- X prohibited (excluded) there is a requirement not to use this capability in the given context.
- O.i qualified optional for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.
- Ci conditional the requirement on the capability ("M", "O", "X" or "N/A") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE ...) ELSE ..." is to be used to avoid ambiguities.

References to items

For each possible item answer (answer in the support column) there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns are to be discriminated by letters (a, b, etc.), respectively.

EXAMPLE: 4.1/4 is the reference to the answer of item 4 in table 4.1.

The ID (identifier) of a test case consists of a main identifier and optionally a sub-identifier; for example, 2-1 and 3. A sub-identifier is used when there are multiple test cases with this same main identifier; otherwise, no sub-identifier is used. Reference to a main identifier when the relevant test cases also have sub-identifier are assumed to reference all of the test cases with that main identifier.

# 4 Test Environment

# 4.1 Test Applicability

### 4.1.1 Table of optional features

The device supplier shall state the support of possible options in table 4.1. See clause 3.4 for the format of table 4.1.

Item	Option	Status	Support	Mnemonic
1	CAT TP protocol is supported	0		O_CAT_TP
2	SMS protocol supported	0		O_SMS
3	HTTPS protocol supported	0		O_HTTPS
4	The TAR may be taken out of the AID	0		O_Default_TAR
5	Reader Mode, Type A	0		O_RM_A
6	Reader Mode, Type B	0		O_RM_B
7	DES used for ciphering	0		O_DES_CHP
8	STORE DATA command is supported	0		O_STORE_DATA_CMD
9	Additional combinations of the P1 parameter is supported for	0		O_P1_ADD_COM
	command GET STATUS; i.e. setting more than one bit of b5 to			
	b8			
10	ISD has DAP Verification privilege and uses DES algorithm	0		O_ISD_DAP_DES
11	Void			
12	UICC Shared File System RFM application is supported	0		O_UICC_SHAR_RFM
13	UICC Toolkit Parameters DAP with DES algorithm is supported	0		O_TK_DAP_DES
14	UICC Toolkit Parameters DAP with AES algorithm is supported	0		O_TK_DAP_AES
	Access Domain DAP with DES algorithm is supported	0		O_AD_DAP_DES
16	Access Domain DAP with AES algorithm is supported	0		O_AD_DAP_AES

#### Table 4.1: Options

## 4.1.2 Applicability table

Table 4.2a) and table 4.2b) specify the applicability of each test case to the device under test. See clause 3.4 for the format of table 4.2.

Clause	Test case number and description	Release	Rel-11 UICC	Support
6.2.2.1	Test case 1: A command session with C-APDU TLV Structure with definite length coding	Rel-11	М	
6.2.2.2	Test case 2: A command session containing multiple commands with C-APDU TLV Structure with definite length coding - Bad Format	Rel-11	М	
6.2.2.3	Test case 3: A command session with C-APDU TLV Structure with indefinite length coding	Rel-11	М	
6.2.2.4	Test case 4: A command session with C-APDU TLV Structure with indefinite length coding - Bad Format	Rel-11	М	
6.2.2.5	Test case 5: A command session with Immediate Action TLV Structure with definite length coding - Normal Format	Rel-11	М	
6.2.2.6	Test case 6: A command session with Immediate Action TLV Structure with definite length coding - Referenced Format	Rel-11	М	
6.2.2.7	Test case 7: A command session with Immediate Action TLV Structure with definite length coding - Immediate Action Error	Rel-11	C011	
6.2.2.8	Test case 8: A command session with Immediate Action TLV Structure with indefinite length coding - Normal Format	Rel-11	М	
6.2.2.9	Test case 9: A command session with Immediate Action TLV Structure with indefinite length coding - Referenced Format	Rel-11	М	
6.2.2.10	Test case 10: A command session with Immediate Action TLV Structure with indefinite length coding - Immediate Action Error	Rel-11	C011	

#### Table 4.2 a): Applicability of tests

Clause	Test case number and description	Release	Rel-11 UICC	Support
6.2.2.11	Test case 11: A command session with Error Action TLV Structure with definite length coding - normal format	Rel-11	М	
6.2.2.12	Test case 12: A command session with Error Action TLV Structure with definite length coding - Referenced format	Rel-11	М	
6.2.2.13	Test case 13: A command session with Error Action TLV Structure with indefinite length coding - Normal format	М		
6.2.2.14	Test case 14: A command session with Error Action TLV Structure with indefinite length coding - Referenced format	М		
6.2.2.15	Test case 15: A command session with Script Chaining TLV Structure with definite length coding	Rel-11	М	
6.2.2.16	Test case 16: A command session with Script Chaining TLV Structure with definite length coding (Script Chaining Error)	Rel-11	М	
6.2.2.17	Test case 17: A command session with Script Chaining TLV Structure with indefinite length coding	Rel-11	М	
6.2.2.18	Test case 18: A command session with Script Chaining TLV Structure with indefinite length coding (Script Chaining Error)	Rel-11	М	
6.4.1.1	Test case 1: A command session with a single SELECT command. Check access to the file tree	Rel-11	C012	
6.4.1.2	Test case 2: A command session with multiple commands (SELECT, UPDATE BINARY, READ BINARY)	Rel-11	C012	
6.4.1.3	Test case 3: A command session with multiple commands (SEARCH RECORD, UPDATE RECORD, INCREASE, READ RECORD)	Rel-11	C012	
6.4.1.4	Test case 4: A command session with multiple commands (SET DATA, RETRIEVE DATA)	Rel-11	C012	
6.4.1.5	Test case 5: A command session with multiple commands (ACTIVATE FILE, DEACTIVATE FILE)	Rel-11	C012	
6.4.1.6	Test case 6: A command session with multiple commands (VERIFY PIN, CHANGE PIN)	Rel-11	C012	
6.4.1.7	Test case 7: A command session with multiple commands (DISABLE PIN, ENABLE PIN)	Rel-11	C012	
6.4.1.8	Test case 8: A command session with multiple commands (UNBLOCK PIN)	Rel-11	C012	
6.4.1.9	Test case 5: A command session with multiple commands (CREATE FILE, RESIZE FILE, DELETE FILE)	Rel-11	C012	
6.4.2.1	Test case 1: A command session with a single SELECT command. Check access to the file tree	Rel-11	М	
6.4.2.2	Test case 2: A command session with multiple commands (SELECT, UPDATE BINARY, READ BINARY)	Rel-11	М	
6.4.2.3	Test case 3: A command session with multiple commands (SEARCH RECORD, UPDATE RECORD, INCREASE, READ RECORD)	Rel-11	М	
6.4.2.4	Test case 4: A command session with multiple commands (SET DATA, RETRIEVE DATA)	Rel-11	М	
6.4.2.5	Test case 5: A command session with multiple commands (ACTIVATE FILE, DEACTIVATE FILE)	Rel-11	М	
6.4.2.6	Test case 6: A command session with multiple commands (VERIFY PIN, CHANGE PIN)	Rel-11	М	
6.4.2.7	Test case 7: A command session with multiple commands (DISABLE PIN, ENABLE PIN)	Rel-11	М	
6.4.2.8	Test case 8: A command session with multiple commands (UNBLOCK PIN)	Rel-11	М	
6.4.2.9	Test case 9: A command session with multiple commands (CREATE FILE, RESIZE FILE, DELETE FILE)	Rel-11	М	
6.5.1.1	Test case 1: DELETE command	Rel-11	М	
6.5.2.1	Test case 1: SET STATUS command within a command session	Rel-11	М	
6.5.3.1.1	Test case 1: INSTALL [for load] as a single command in the session	Rel-11	М	
6.5.3.1.2	Test case 2: INSTALL[for load] with memory management parameters	Rel-11	М	
6.5.3.2.1	Test case 1: INSTALL[for install] with SIM File Access and Toolkit Application Specific Parameters	Rel-11	М	
6.5.3.2.2	Test case 2: INSTALL[for install] with UICC System Specific Parameters and SIM File Access and Toolkit Application Specific Parameters	Rel-11	М	

Clause	Test case number and description	Release	Rel-11 UICC	Support
6.5.3.2.3	Test case 3: INSTALL[for install] with UICC System Specific Parameter "UICC Toolkit Application specific parameters field"	Rel-11	М	
6.5.3.2.4	Test case 4: INSTALL[for install] with UICC System Specific Parameter "UICC Access Application specific parameters field"	Rel-11	М	
6.5.3.2.5	Test case 5: INSTALL[for install] with UICC System Specific Parameter "UICC Administrative Access Application specific parameters field"	Rel-11	М	
6.5.3.2.6	Test case 6: INSTALL[for install] with UICC System Specific Parameter "UICC Access Application specific parameters field" and "UICC Administrative Access Application specific parameters field" for the same ADF	Rel-11	М	
6.5.3.2.7	Test case 7: INSTALL[for install] with UICC System Specific Parameter "UICC Access Application specific parameters field" and "UICC Administrative Access Application specific parameters field" for the same UICC file system	Rel-11	М	
6.5.3.2.8	Test case 8: INSTALL[for install] with the maximum number of timers required for SIM Toolkit Application Specific Parameters set too high ('09')	Rel-11	М	
6.5.3.2.9	Test case 9: INSTALL[for install] with the maximum number of timers required for UICC Toolkit Application Specific Parameters set too high ('09')	Rel-11	М	
6.5.3.2.10	Test case 10: INSTALL[for install] with the maximum number of channels required for SIM Toolkit Application Specific Parameters set too high ('08')	Rel-11	М	
6.5.3.2.11	Test case 11: INSTALL[for install] with the maximum number of channels required for UICC Toolkit Application Specific Parameters set too high ('08')	Rel-11	М	
6.5.3.2.12	Test case 12: INSTALL[for install] with the maximum number of services required for UICC Toolkit Application Specific Parameters set too high ('09')	Rel-11	М	
6.5.3.2.13	Test case 13: INSTALL[for install] with requested item identifier for SIM Toolkit Application Specific Parameters set to '128'	Rel-11	М	
6.5.3.2.14	Test case 14: INSTALL[for install] with requested item identifier for UICC Toolkit Application Specific Parameters set to '128'	Rel-11	М	
6.5.3.2.15	Test case 15: INSTALL[for install] with Minimum Security Level field of SIM Toolkit Application different from zero	Rel-11	C001	
6.5.3.2.16	Test case 16: INSTALL[for install] with Minimum Security Level field of UICC Toolkit Application different from zero	Rel-11	C001	
6.5.3.2.17	Test case 17: INSTALL[for install] with Minimum Security Level field of SIM Toolkit Application different from SPI1	Rel-11	C001	
6.5.3.2.18	Test case 18: INSTALL[for install] with Minimum Security Level field of UICC Toolkit Application different from SPI1	Rel-11	C001	
6.5.3.2.19	Test case 19: INSTALL[for install] SIM Toolkit Applications with Access Domain Parameter equal to '00' and 'FF'	Rel-11	М	
6.5.3.2.20	Test case 20: INSTALL[for install] UICC Toolkit Applications with Access Domain Parameter equal to '00' and 'FF'	Rel-11	М	
6.5.3.2.21	Test case 21: INSTALL[for install] SIM Toolkit Application with Access Domain Parameter equal to '00' and access condition set to 'NEVER'	Rel-11	М	
6.5.3.2.22	Test case 22: INSTALL[for install] UICC Toolkit Application with Access Domain Parameter equal to '00' and access condition set to 'NEVER'	Rel-11	М	
6.5.3.2.23	Test case 23: INSTALL[for install] SIM Toolkit Application with Access Domain Parameter not supported	Rel-11	М	
6.5.3.2.24	Test case 24: INSTALL[for install] UICC Toolkit Application with Access Domain Parameter not supported	Rel-11	М	
6.5.3.2.25	Test case 25: INSTALL[for install] UICC Toolkit Application with Access Domain Parameter equal to '02'	Rel-11	М	
6.5.3.2.26	Test case 26: INSTALL[for install] SIM Toolkit Applications with Access Domain Parameter equal to '00' - independency from the PIN status at UICC-Terminal interface	Rel-11	М	
6.5.3.2.27	Test case 27: INSTALL[for install] UICC Toolkit Applications with Access Domain Parameter equal to '00' - independency from the PIN status at UICC-Terminal interface	Rel-11	М	

		Release	Rel-11 UICC	Support
6.5.3.2.28	Test case 28: INSTALL[for install] of SIM Toolkit Applications with different Priority levels	Rel-11	M	
6.5.3.2.29	Test case 29: INSTALL[for install] of UICC Toolkit Applications with different Priority levels	Rel-11	М	
6.5.3.2.30	Test case 30: INSTALL[for install] SIM Toolkit Applets with same Priority levels	Rel-11	М	
6.5.3.2.31	Test case 31: INSTALL[for install] UICC Toolkit Applets with same Priority levels	Rel-11	М	
6.5.3.2.32	Test case 32: INSTALL[for install] two SIM Toolkit Applications with identical TAR value	Rel-11	М	
6.5.3.2.33	Test case 33: INSTALL[for install] two UICC Toolkit Application with identical TAR value	Rel-11	М	
6.5.3.2.34	Test case 34: INSTALL[for install] SIM Toolkit Application with multiple TAR values	Rel-11	C001	
6.5.3.2.35	Test case 35: INSTALL[for install] UICC Toolkit Application with multiple TAR values	Rel-11	C001	
6.5.3.2.36	Test case 36: INSTALL[for install] SIM Toolkit Application without TAR value in the Install parameters, the AID contains TAR value	Rel-11	C002	
6.5.3.2.37	Test case 37: INSTALL[for install] UICC Toolkit Application without TAR value in the Install parameters, the AID contains TAR value	Rel-11	C002	
6.5.3.2.38	Test case 38: INSTALL[for install] for contactless application with Reader mode protocol data type A	Rel-11	C003	
6.5.3.2.39	Test case 39: INSTALL[for install] for contactless application with Reader mode protocol data type B	Rel-11	C004	
6.5.3.2.40	Test case 40: INSTALL[for install] for contactless application with Card Emulation mode	Rel-11	М	
6.5.3.2.41	Test case 41: INSTALL[for install] with UICC System Specific Parameter "UICC Toolkit Application specific parameters field" and "UICC Toolkit parameters DAP" - DAP is calculated with DES	Rel-11	C013	
6.5.3.2.42	Test case 42: INSTALL[for install] with UICC System Specific Parameter "UICC Toolkit Application specific parameters field" and "UICC Toolkit parameters DAP" - DAP is calculated with AES	Rel-11	C014	
6.5.3.2.43	Test case 43: INSTALL[for install] UICC Toolkit Applications with Access Domain DAP using DES algorithm	Rel-11	C015	
6.5.3.2.44	Test case 44: INSTALL[for install] UICC Toolkit Applications with Access Domain DAP using AES algorithm	Rel-11	C016	
6.5.4.1	Test case 1: LOAD with DES for DAP verification	Rel-11	C009	
6.5.5.1	Test case 1: PUT KEY - create new 3DES 2 keys	Rel-11	M	
6.5.5.2	Test case 2: PUT KEY - create new 3DES 3 keys	Rel-11	M	
6.5.5.3	Test case 3: PUT KEY - add and replace DES keys	Rel-11	C006	
6.5.5.4	Test case 4: PUT KEY - create new 16 bytes AES keys	Rel-11	M	
6.5.5.5	Test case 5: PUT KEY - create new 24 bytes AES keys	Rel-11	M	
6.5.5.6	Test case 6: PUT KEY - create new 32 bytes AES keys	Rel-11	M	
6.5.6.1	Test case 1: GET STATUS with different P1 values	Rel-11	M	
6.5.6.2	Test case 2: GET STATUS with optional P1 values	Rel-11	C008	
6.5.6.3	Test case 3: GET STATUS returns Menu Entries in the LOCKED state	Rel-11	М	
6.5.7.1	Test case 1: GET DATA with different P1 values	Rel-11	M	
6.5.8.1	Test case 1: STORE DATA	Rel-11	C007	
6.5.8.2	Test case 2: STORE DATA with a Forbidden Load File List	Rel-11	C007	
6.6.2.1	Test case 1: Send Secured Data (READ BINARY) using Expanded and Compact format with the same TAR value	Rel-11	C005	
6.6.2.2	Test case 2: Send Secured Data (READ BINARY) using Expanded and Compact format with the same TAR value	Rel-11	C005	
6.6.2.3	Test case 3: PUSH Command, PoR required - No Error	Rel-11	C005	
6.6.2.4	Test case 4: PUSH Command - Error Case	Rel-11	C005	

C011 C012

C013

C014

C015

C016

	.,
Conditional item	Description
C001	IF (O_CAT_TP OR O_SMS) THEN M ELSE N/A
C002	If (O_CAT_TP OR O_SMS) AND (O_Default_TAR) THEN M ELSE N/A
C003	IF O_RM_A THEN M ELSE N/A
C004	IF O_RM_B THEN M ELSE N/A
C005	IF O_CAT_TP THEN M ELSE N/A
C006	IF(O_DES_CHP AND O_CAT_TP) THEN M ELSE N/A
C007	IF O_STORE_DATA_CMD THEN M ELSE N/A
C008	IF O_P1_ADD_COM THEN M ELSE N/A
C009	IF O_ISD_DAP_DES THEN M ELSE N/A
C010	Void

IF O\_SMS THEN M ELSE N/A

IF O\_UICC\_SHAR\_RFM THEN M ELSE N/A

IF O\_TK\_DAP\_DES THEN M ELSE N/A IF O\_TK\_DAP\_AES THEN M ELSE N/A

IF O\_AD\_DAP\_DES THEN M ELSE N/A

IF O\_AD\_DAP\_AES THEN M ELSE N/A

#### 4.2 Test environment description

The general architecture for the test environment is:

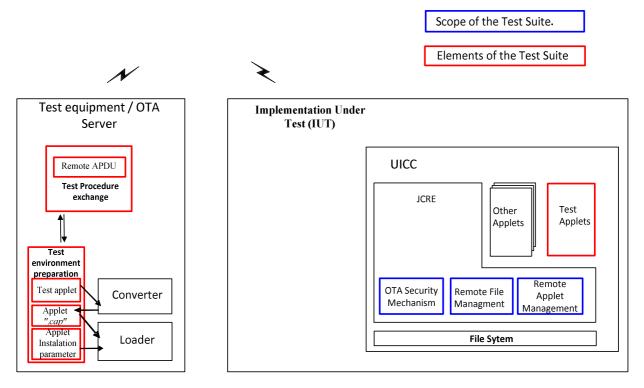
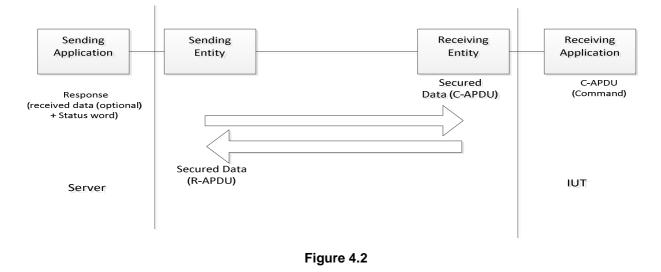


Figure 4.1

The general scheme for the Data Exchange:



### 4.3 Tests format

#### 4.3.1 Initial Conditions

In addition to the general preconditions defined in clause 4.3, this clause defines the initial conditions prior to the execution of each test case; i.e. for each ID.

#### 4.3.2 Test procedure

Each test procedure contains a table to indicate the expected responses form the UICC as follows.

Step	Description	Expected Result	RQ
	Commands with Secured Data content description	Expected returned Response with Secured Data content description	Conformance Requirements Reference
	Each step consist of a command which may contain a single command or a sequence of commands		

The detailed information on the Data Format of Secured data to be sent in the "Description" column shall be configured as specified in annex C under:

- clause C.2.1 for "Compact Remote Application Data Format"
- clause C.2.2 for "Expanded Remote Application Data Format"

The detailed information on the Command Coding of the Secured data to be sent in the "Description" shall be configured as specified in annex C under:

• clause C.1 Commands, table C.1

In case the expected returned Response with Secured Data in "Expected Result" shall contain Data in addition to the status word, the detailed description of the file contents for all system files used within the present document is specified in annex B.

## 4.4 General initial conditions

#### 4.4.1 Common rules

The Initial Conditions are a set of general prerequisites for the IUT prior to the execution of testing. For each test procedure described in the present document, the following rules apply to the Initial Conditions:

- Unless otherwise stated, the file system and files content shall be restored to the contents definition in clause 4.3.1 and in annex B of the present document.
- Unless otherwise stated, before installing the applet(s) relevant to the current test procedure, no package specific to this test specification shall be present.
- Unless otherwise stated, all structured data shall be coded as Compact Remote Command Structure.
- Unless otherwise stated, all structured data sent via HTTP shall be coded as Expanded Remote command in indefinite length coding structure.
- Unless otherwise stated, the UICC shall be activated and a reset has been performed on ISO interface.
- Unless otherwise stated, the initial security conditions (i.e. PIN, ADM, etc.) shall be set to the default value before running of the test case.
- Unless otherwise specified, the default SPI1 coding for a RAM application should be set to ,17' or '16'.

#### 4.4.2 File system and files content

Figure 4.3 shows the file system and the files content that the IUT shall contain to execute the test cases of this test specification, unless otherwise stated. The definition of other files is out of scope of the present document.

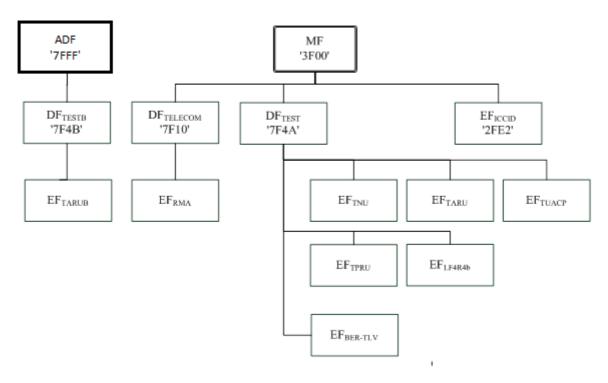


Figure 4.3

Further information can be found under annex B.

#### 4.4.3 AID and TAR coding

The AID coding for the Test Packages, Applet classes and Applets shall be as specified in ETSI TS 101 220 [6]. In addition, the following TAR and Application Provider specific data values are defined for use within the present document.

AID coding

Byte 1	Ву	te 12	Byte	13	Byte	14	Byte	15	Byte	16	]
											Application Provider specific data Default TAR if not defined in annex E
			-								Specified in ETSI TS 101 220 [6]

TAR coding (3 bytes / 24 bits):

b1	b4	b5	[[]]]	b8	b9	b'	16	I	o17	b24	
											Applet class/instance number
											Package number
											Core package identifier
											Test Part Identifier

Applet instance number, Applet Class number, Package number:

- For package AID, package number shall start from 0 and class and instance numbers shall be 0.
- For class AID, package number is the number of the class package, class number shall start from 1 and instance shall be 0.
- For instance AID, package and class number are the number of class and package of which instance belongs, and instance number shall start from 1.

Test Part and Core Package Identifier are defined in annex E, despite the values reserved in ETSI TS 101 220 [6].

Application Provider specific data (1 byte):

- '00' for Package.
- '01' for Applet class.
- '02' for Applet Instance.

Further information can be found under annex E.

### 4.5 Test equipment / OTA server

#### 4.5.1 Test equipment / OTA server requirements

These sub-clauses recommend a minimum specification for each of the items of test equipment referenced in the tests.

The simulator shall meet the following requirements:

- be able to send and receive secure data commands to the IUT;
- the result of I/O commands shall be presented at the application layer;
- the structure of commands shall be according to the generalized structure defined ETSI TS 102 221 [3];
- be able to provide results of the tests;

- shall send and/or compare all data specified in test file;
- shall be able to accept all valid status codes returned.

Further requirement when the UICC interface shall be checked in the test case:

- shall provide the possibility to monitor the UICC on the ISO and SWP interfaces;
- the result of I/O commands shall be presented at the application layer.

#### 4.5.2 Default conditions for DUT operation

- Any level 1 user verification requirement (PIN) on the IUT shall be enabled with three VERIFY PIN attempts and ten UNBLOCK PIN attempts remaining.
- The default PIN value shall be set on the IUT to '31 31 31 31 FF FF FF FF'.
- The default UNBLOCK PIN value shall be set on the IUT to '33 33 33 FF FF FF FF'.
- An application residing on the UICC shall support the required commands specified in ETSI TS 102 221 [3].

The following application could be used for this purpose:

- UICC toolkit application (applications using the uicc.toolkit.ToolkitInterface).
- SIM toolkit application (applications using the sim.toolkit.ToolkitInterface or sim.access.SIMView).

#### 4.5.3 Java Card<sup>™</sup> Software Development Kit

Java Card<sup>TM</sup> software development kit (SDK) version supported by Java Card 3.0.1 specifications ([26], [27] and [28]) is 1.5.

#### 4.5.4 Exercising RFM application

An RFM application is required by various test cases in order to exercise the functionality which is being tested by these test cases. The term "exercising RFM application" is used for this RFM application:

- If the UICC supports O\_UICC\_SHAR\_RFM, the exercising RFM application shall be the UICC Shared File System RFM application.
- Otherwise, the exercising RFM application shall be an ADF RFM application. In this case, the ADF RFM application shall support access to the UICC Shared File System.

## 5 Conformance Requirements

#### 5.1 Overview of remote management

Reference: ETSI TS 102 226 [1], clause 4.

RQ number	Clause	Description	
RQ01_0001	4	All data exchanged between the Sending Entity and Receiving Entity shall be formatted	
		as "Secured data" according to ETSI TS 102 225 [2].	
RQ01_0002	4	The parameter(s) in the "Secured data" is either a single command, or a list of	
		commands, which shall be processed sequentially.	
RQ01_0003	4	The Remote Management application shall take parameters from the "Secured data" and shall act upon the files or applications or perform other actions according to these parameters.	
RQ01_0004	4	Remote Management commands shall be executed by the dedicated Remote Management Application.	

RQ number	Clause	Description
RQ01_0005	4	A "Command session" is defined as starting upon receipt of the parameter/command list, and ends when the parameter list in the "Secured data" is completed, or when an error (i.e. SW1 of the command indicates an error condition) is detected which shall halt further processing of the command list.
RQ01_0006	4	Warnings or procedure bytes do not halt processing of the command list.
RQ01_0007	4	A "Command session" shall be handled like an application session defined in ETSI TS 102 221 [3] (for RFM) and GlobalPlatform Card Specification [5] (for RAM).
RQ01_0008	4	Application selection at the beginning of the session happens implicitly based on the header information (TAR or HTTP header field X-Admin-Targeted-Application).
RQ01_0009	4	Unless defined otherwise in ETSI TS 102 226 [1], the session context shall be deleted when the "Command session" ends.
RQ01_0010	4	At the beginning and end of a Command "session" the logical state of the UICC as seen from the terminal shall not be changed to an extent sufficient to disrupt the behaviour of the terminal.
RQ01_0011	4	If changes in the logical state have occurred that the terminal needs to be aware of, the application on the UICC may issue a REFRESH command according to ETSI TS 102 223 [4].
NOTE: RQ01	_0008 is ir	nplicitly tested in the present document.

# 5.2 Remote APDU format

Reference: ETSI TS 102 226 [1], clause 5.

RQ number	Clause	Description	
RQ02_0101	5.1.1	A command string may contain a single command or a sequence of commands.	
RQ02_0102	5.1.1	The structure of each command shall be according to the generalized structure defined below; each element other than the Data field is a single octet (see ETSI TS 102 221 [3]).	
		The format of the commands is the same as the one defined in ETSI TS 102 221 [3] for T = 0 TPDU commands.	
		Class byte (CLA) Instruction code (INS) P1 P2 P3 Data	
RQ02_0103	5.1.1	If the sending application needs to retrieve the Response parameters/data of a case 4 command, then a GET RESPONSE command shall follow this command in the command string.	
RQ02_0104	5.1.1	The GET RESPONSE and any case 2 command (i.e. READ BINARY, READ RECORD) shall only occur once in a command string and, if present, shall be the last command in the string.	
RQ02_0105	5.1.1	For all case 2 commands and for the GET RESPONSE command, if $P3 = '00'$ , then the UICC shall send back all available response parameters/data e.g. if a READ RECORD command has $P3 = '00'$ the whole record shall be returned.	
RQ02_0106	5.1.1	In case the data is truncated in the response, the remaining bytes are lost and the status words shall be set to '62 F1'.	
RQ02_0107	5.1.1	The limitation of 256 bytes does not apply for the length of the response data.	
		nplicitly tested in the present document. All tests related to ETSI TS 102 221 [3] UICC e provided in ETSI TS 102 230-2 [30].	

RQ number	Clause	Description	
RQ02_0201	5.1.2	If a proof of Receipt is required by the sending entity, the Additional Response Data sent by the Remote Management Application shall be formatted as following: Number of commands executed within the command script, with Length =1. This field shall be set to '01' if one command was executed within the command script, '02' if two commands were executed, etc. Status bytes or '61 xx' procedure bytes of last executed command/GET RESPONSE, of Length = 2. Response data of last executed command / GET RESPONSE if available (i.e. if the last command was a case 2 command or a GET RESPONSE), with Length = X.	
	······································		
cor	mmands were e	xecuted, etc.	

RQ number	Clause	Description		
RQ2_0301	5.2.1	For Expanded Remote command structure, the "Secured data" sent to a Rem		
			ation shall be a BER-TLV data object formatted according to the	
		table below for defini	te length coding:	
		Longth in hydro	Name	
		Length in bytes		
			Command Scripting template tag for definite length coding Length of Command Scripting template= A+B+C	
		A	Command TLV	
		B	Command TLV	
		С	Command TLV	
		Where the tag of this	TLV is defined in annex A.	
RQ02_0301a	5.2.1		te command structure, the "Secured data" sent to a Remote	
			ation shall be a BER-TLV data object formatted according to the	
		table below for indefi	nite length coding:	
		Length in bytes	Name	
		1	Command Scripting template tag for indefinite length coding	
		1	Indicator for indefinite length coding (value '80')	
		A	Command TLV	
		В	Command TLV	
		C	Command TLV	
		2	End of content indicator (value '00 00')	
		Where the tag of this	TLV is defined in annex A.	
RQ02_0302	5.2.1		ent application command string may contain a single or several	
1\Q02_0302	5.2.1	Command TLVs.	ent application command string may contain a single of several	
RQ02_0303	5.2.1		is a C-APDU it shall contain a remote management command.	
RQ02_0304	5.2.1		is an Immediate Action TLV it shall contain a proactive	
11002_0001	0.2.1		action to be performed when it is encountered while processing	
		the sequence of Con		
RQ02_0305	5.2.1		is an Error Action TLV it shall contain a proactive command to	
			an error is encountered in a C APDU following this TLV.	
RQ02_0306	5.2.1	A Command TLV can be a script Chaining TLV as first Command TLV.		
	esting RQ02		LVs are defined in ETSI TS 102 226 [1], in annex A.	

RQ number	Clause	Description
RQ02_0401	5.2.1.1	The structure of each C-APDU shall be a TLV structure coded according to the C-APDU COMPREHENSION-TLV data object coding defined in ETSI TS 102 223 [4]. The restriction on the length of the C-APDU mentioned in the note in ETSI TS 102 223 [4] shall not apply.
RQ02_0402	5.2.1.1	For all case 2 and case 4 C-APDUs, if Le='00' in the C-APDU, then the UICC shall send back all available response parameters/data in the R-APDU e.g. if a READ RECORD command has Le='00' the whole record shall be returned. The limitation of 256 bytes does not apply for the length of the response data.
RQ02_0403	5.2.1.1	In case the data is truncated in the response of a C-APDU, the status words for this C-APDU shall be set to '62 F1' in the corresponding R-APDU. This shall terminate the processing of the command list.
RQ02_0404	5.2.1.1	If a R-APDU fills the response buffer so that no further R-APDU can be included in the response scripting template, this shall terminate the processing of the command list.
RQ02_0405	5.2.1.1	If Le field is empty in the C-APDU, then no response data is expected in the R-APDU and in case of expanded format with definite length coding, no R-APDU shall be returned by the UICC in the application additional response data except if the corresponding C-APDU is the last command executed in the script.
	_	fied in the present document for some C-APDUs. Further tests on TLV structure scope of the present document.

RQ number	Clause	Description				
RQ02_0501	5.2.1.2	If the normal format is used t	for the Immediate Action TLV it shall be formatted as:			
		Length in bytes	Name			
		1	Immediate Action tag (see annex A)			
		L	Length of Immediate Action = $A > 1$			
		А	Set of COMPREHENSION-TLV data objects			
RQ02_0502	5.2.1.2	If the referenced format is us	sed for Immediate Action TLV it shall be formatted as:			
		Length in bytes	Name			
		1	Immediate Action tag (see annex A)			
		1	Length of Immediate Action = 1			
		1	'01' to '7F': Reference to a record in EF <sub>RMA</sub>			
			'81': Proactive session indication			
			'82': Early response			
			other values: RFU			
RQ02_0503	5.2.1.2	In case Immediate Action TL	V with reference format and in case of reference to a			
		record in EFRMA, the referenced record shall contain the set of COMPREHENSION				
			by a length value as defined for a BER-TLV, see			
		ETSI TS 102 222 [9].				
RQ02_0504	5.2.1.2	If present, the Immediate Action TLV coding "proactive session indication" shall be:				
			ne script if there is no script chaining.			
			in the script if there is script chaining.			
RQ02_0505	5.2.1.2		indication", execution of the remaining script shall be			
		suspended if a proactive ses				
RQ02_0506	5.2.1.2	In case of "proactive session indication", execution of the remaining script shall be				
		suspended if a proactive session is ongoing. Script processing shall be resume				
			e session. If the UICC cannot suspend the script			
			e is not enough internal resources available, the UICC			
			ng of the script and return a "suspension error" in the			
<b>DO00</b> 0507	5040	response data.				
RQ02_0507	5.2.1.2	If no "proactive session indication" is present as first Command TLV and another				
			, proactive commands in the script shall be silently			
D000 0500-	5040	ignored.				
RQ02_0508a	5.2.1.2		the response to the sending entity shall be sent before			
	5040	processing the rest of the co				
RQ02_0508b	5.2.1.2		the number of executed commands TLV objects shall			
	5242		mmediate action TLV encoding the "early response".			
RQ02_0508c	5.2.1.2		no other response data shall be sent after the response			
	5040	sent due to the early response				
RQ02_0509	5.2.1.2	Proactive commands DISPLAY TEXT, PLAY TONE and REFRESH are allowed as				
		Immediate Action.				

Clause	Description			
5.2.1.3	The Error Action TLV - norm	al format shall be formatted as:		
	Length in bytes	Name		
	1	Error Action tag (see annex A)		
	L	Length of Error Action = $A > 1$		
	A	Set of COMPREHENSION-TLV data objects		
5.2.1.3	The Error Action TLV - refere	enced format shall be formatted as:		
	Length in bytes	Name		
	1	Error Action tag (see annex A)		
	1	Length of Error Action = 1		
	1	'01' to '7F': Reference to a record in EFRMA		
		other values: RFU		
5.2.1.3	The Error Action TLV - no ac	ction shall be formatted as:		
	Length in	bytes Name		
	1	Error Action tag (see annex A)		
	1	Length of Error Action = 0		
5.2.1.3	In case of referenced format, the referenced record in EFRMA shall contain the set o			
	COMPREHENSION-TLV data objects preceded by a length value as defined fo			
	BER-TLV, see ETSI TS 123			
	5.2.1.3	5.2.1.3       The Error Action TLV - norm         Length in bytes       1         L       A         5.2.1.3       The Error Action TLV - reference         Length in bytes       1         L       A         5.2.1.3       The Error Action TLV - reference         Length in bytes       1         1       1         5.2.1.3       The Error Action TLV - no action         5.2.1.3       The Error Action TLV - no action         5.2.1.3       The Error Action TLV - no action         1       1         5.2.1.3       In case of referenced format COMPREHENSION-TLV da		

RQ number	Clause	Description
RQ02_0605	5.2.1.3	Proactive commands for Error Action DISPLAY TEXT and PLAY TONE are allowed for Error Action.
RQ02_0606	5.2.1.3	If there is an Error Action TLV between the start of the script and the C-APDU resulting in an error, the action defined in the last Error Action TLVs shall be performed. If this last Error Action TLV has zero length, no action shall be performed.
RQ02_0607	5.2.1.3	If there is no Error Action TLV between the start of the script and the C-APDU resulting in an error, no action shall be performed.

RQ number	Clause		0	Description	
RQ02_0701	5.2.1.4	The optional Script Chaining TLV shall be coded as:			
			Length in bytes	Name	
			1	Script Chaining tag	]
			1	Script Chaining Length = 1	
			1	Script Chaining Value	
		The Script Chainin	g tag is defined in a	annex A.	
RQ02_0702	5.2.1.4	Command TLV in t	If present, the Script Chaining TLV shall be present only once and shall be the first Command TLV in the Command Script. It may only be present for Remote File Management or Remote Application Management.		
RQ02_0703	5.2.1.4		If it is received by any other application standardized in the present document, the error "Script Chaining not supported by this application" shall be sent back to the		
RQ02_0704	5.2.1.4	RAM.	lete chaining inforr ep chaining inform cript - subsequent s	nation upon card reset - valio ation across card reset - valio	
RQ02_0705	5.2.1.4	With script chaining	g, a command ses	sion is extended beyond the context is kept until the last s	

RQ number	Clause		Description
RQ02_0801	5.2.2	Chaining produces n	aining is present in the command list or processing of the Script o error, it shall be formatted for Expanded Format of Remote ation additional response data in case of definite length coding
		Length in bytes	Name
		1	Response Scripting template tag for definite length coding
		L	Length of Response Scripting template= X+A+BC
		Х	Number of executed Command TLV objects
		A	R-APDU of first executed case 2/ case 4 C-APDU in the script
		В	R-APDU of second executed case 2/ case 4 C-APDU in the script
		С	R-APDU of last executed C-APDU (case 1, 2, 3 or 4) in the script or Bad format TLV
		NOTE: If the last executed C-APDU is a case 2 or case 4 comma corresponding R-APDU TLV shall only be present once in Response Scripting template.	
		Where the tag of this	TLV is defined in annex A.
RQ02_0801a	5.2.2	The Response Scripting template is a BER-TLV data object as defined in ETSI ETSI TS 101 220 [6], i.e. it uses definite length coding; see RQ02_0301 it shall be used if the command scripting template used definite length coding.	

RQ number	Clause	Description	
RQ02_0802	5.2.2	In case no Script Chaining is present in the command list or processing of the Script Chaining produces no error, it shall be formatted for Expanded Format of Remote Management application additional response data in case of indefinite length coding as:	
		Length in bytes Name	
		1 Response Scripting template tag for indefinite length coding	
		1 Indicator for indefinite length coding (value '80')	
		A R-APDU of first executed C-APDU in the script	
		B R-APDU of second executed C-APDU in the script	
		C R-APDU of last executed C-APDU in the script or Bad format TLV	
		2 End of content indicator (value '00 00')	
	5.0.0	Where the tag of this TLV is defined in annex A.	
RQ02_0802a	5.2.2	The Response Scripting template is a BER-TLV data object which uses indefinite length coding as defined in ISO/IEC 8825-1 [21]; see RQ02_0302. It shall be used if the command scripting template used indefinite length coding.	
RQ02_0803	5.2.2	The Response Scripting template is a BER TLV data object as defined in ETSI TS 101 220 [6], i.e. it uses definite length coding; see table 5.2 [1]. It shall be used if the command scripting template used definite length coding.	
RQ02_0804	5.2.2	The Response Scripting template is a BER-TLV data object which uses indefinite length coding as defined in ISO/IEC 8825-1 [21]; see table 5.2a [1]. It shall be used i the command scripting template used indefinite length coding.	
RQ02_0805	5.2.2	In case the definite length coding is used, the Number of executed command TLV objects is a BER-TLV data object and shall be coded as shown below:	
		Length in bytes Description	
		1 Number of executed command TLV objects tag	
		1         Length=X           X         Number of executed command TLV objects	
		Where the tag of this TLV is defined in annex A.	
RQ02_0806	5.2.2	The structure of each R-APDU shall be a TLV structure coded according to the R-APDU COMPREHENSION-TLV data object coding defined in ETSI TS 102 223 [4].	
RQ02_0807	5.2.2	The restriction on the length of the R-APDU mentioned in the note in ETSI TS 102 223 [4] shall not apply. For Le='00', the length of the R-APDU may be coded on more than two bytes.	
RQ02_0809	5.2.2	In case of an unknown Tag, or TLV with a wrong format (e.g. length > length of BER-TLV or length < 4) is encountered while processing the command script, a Bad format TLV shall be put into the response data and processing of the command script shall be aborted at that point.	
RQ02_0810	5.2.2	The Number of executed C-APDUs shall take into account the incorrectly formatted TLV.	
RQ02_0811	5.2.2	The Bad format TLV is a BER-TLV data object and shall be coded as follow:	
		Length in bytes Description	
		1 Bad format TLV tag	
		1 Length 1 Error type	
		Where the tag of this TLV is defined in annex A.	
RQ02_0812	5.2.2	The Bad format TLV shall be coded with following error type coding:	
	0.2.2	'01': Unknown Tag found.	
		<ul> <li>'02': Wrong length found.</li> </ul>	
		'03': Length not found.	
		• other values: RFU.	

RQ number	Clause		Description	
RQ02_0812a	5.2.2	For Expanded Format of Remote Management application additional response data in case of Immediate Action error - definite length coding and If "proactive session indication" is present in the script and a proactive session is ongoing and the UICC is unable to suspend script processing, the additional response application data shall be formatted according to table below and indicate "suspension error":		
		Length in bytes	Name	
		1	Response Scripting template tag for definite length coding	
		L	Length of Response Scripting template= X+A	
		X	Number of executed command TLV objects (value is 1)	
		A	Immediate Action Response	
			is TLV is defined in annex A.	
RQ02_0812b	5.2.2	case of Immediate indication" is prese unable to suspend	of Remote Management application additional response data in Action error - indefinite length coding and If "proactive session nt in the script and a proactive session is ongoing and the UICC is script processing, the additional response application data shall ding to table below and indicate "suspension error":	
		Length in bytes	Name	
		1	Response Scripting template tag for indefinite length coding	
		1	Indicator for indefinite length coding (value '80')	
		A 2	Immediate Action Response End of content indicator (value '00 00')	
		<u>L</u>		
<b>DO00</b> 0040	5.0.0		is TLV is defined in annex A.	
RQ02_0813	5.2.2		ion Response from RQ02_0812a and RQ02_0812b is an Response TLV which is a BER-TLV data object coded as follow:	
		Length in		
		1	Immediate Action Response tag (see annex A)	
		1 X	Length=X Immediate Action Response Value	
RQ02_0814	5.2.2		ion Response Value from RQ02_0813 is defined as follows:	
			ension error.	
RQ02_0815	5.2.2	the following situati The previous script	aining TLV indicating "subsequent script" is present in the list, on shall be considered as chaining errors: did not contain a Script Chaining TLV indicating "first script" pt - subsequent script(s) will follow".	
RQ02_0816	5.2.2	In case a Script Ch the following situati	aining TLV indicating "subsequent script" is present in the list, on shall be considered as chaining errors:	
			e chain indicating "first script - delete chaining information upon cessed in an earlier card session.	
RQ02_0817a	5.2.2	In case of chaining	errors, the additional response application data shall be formatted below, for definite length coding:	
		Length in bytes	Name	
		1	Response Scripting template tag for definite length coding	
		L2	Length of Response Scripting template= X+A	
		X	Number of executed Command TLV objects Script Chaining Response	
		A		
			haining Response tag is defined in annex A.	
RQ02_0817b	5.2.2		errors, the additional response application data shall be formatted below, for indefinite length coding:	
		Length in bytes		
		1	Response Scripting template tag for indefinite length coding	
		1	Indicator for indefinite length coding (value '80')	
		A	Script Chaining Response End of content indicator (value '00 00')	
		Where the Script C	haining Response tag is defined in annex A.	

RQ number	Clause			Description	
RQ02_0818	5.2.2	The Script Chain	ing Response TLV	is a BER-TLV data object and sh	all be coded as:
			Length in bytes	Description	
			1	Script Chaining Response tag	
			1	Length=X	
			Х	Script Chaining Result Value	
		Where the Script	Chaining Respons	se tag is defined in annex A.	
RQ02_0819	5.2.2			defined as follows:	
		'01': No previous			
				by this application.	
		'03': Unable to pr	rocess script chaini	ing (e.g. no resources to store cha	aining context).

RQ number	Clause	Description
RQ02_0901	5.3	If a TAR is configured for multiple data formats, the following automatic application data format detection shall apply:
		If b2b1 of the first data byte of the application data are 00, the format of the application data shall be the compact remote application data format.
RQ02_0902	5.3	If b2b1 of the first data byte of the application data are not 00, and if a TAR is configured for multiple data formats, the following automatic application data format detection shall apply: the first data byte of the application data shall indicate the format of the data packet.

# 5.3 Security parameters assigned to applications

Reference: ETSI TS 102 226 [1], clause 6.

RQ number	Clause	Description
RQ03_0101	6.1	The Receiving Entity shall check the Minimum Security Level, set for the Receiving
		Application, before processing the security of the Command Packet.
RQ03_0102	6.1	If the check fails, the Receiving Entity shall reject the messages and a Response Packet with the "Insufficient Security Level" Response Status Code (see ETSI TS 102 225 [2]) shall be sent if required.
RQ03_0103	6.1	According to UICC Configuration [16], if the Receiving Application is a Security Domain which has no own secure channel key set, then the security will be processed by the closest ascendant Security Domain (= Receiving Entity) that has a suitable secure channel key set.
RQ03_0104	6.1	A Minimum Security Level as described in clause 8.2.1.3.2.4 in ETSI TS 102 226 [1] shall be assigned to each Remote Management application (RFM/RAM).
NOTE 1: Deve	lopment of te	st cases for RQ03_0103 is out of scope for the present document.
NOTE 2: RQ03	3_0101 is for	information only.

RQ number	Clause	Description
RQ03_0201	6.2	The access rights granted to an application by its Access Domain shall be independent from the access rights granted at the UICC/Terminal interface.
RQ03_0202		An Access Domain as described in clause 8.2.1.3.2.5 in ETSI TS 102 226 [1] shall be assigned to each Remote File Management Application.

# 5.4 Remote File Management (RFM)

Reference: ETSI TS 102 226 [1], clause 7.

RQ number	Clause	Description
RQ04_0101	7	The concept of embedding APDUs in a command packet and the Additional Response data in a response packet shall be as defined in the previous clauses describing the
		Compact and expanded Remote Application data format.
RQ04_0102	7	Unless a TAR is used that is configured for automatic application data format detection, the Compact and expanded Remote Application data formats shall be distinguished by different TAR values.

RQ number	Clause	Description
RQ04_0103	7	For the Expanded Remote Application data format, it is possible to chain two or more scripts using Script Chaining TLVs.
RQ04_0104	7	If a Script Chaining TLV indicating "first script" or "subsequent script - subsequent script(s) will follow" is processed successfully, the file context (current directory, current file, current tag pointer, etc.) and the PIN verification status at the end of the script shall be remembered until the next script is processed by the Remote File Management application.
RQ04_0105	7	If the next script received successfully contains a Script Chaining TLV indicating "subsequent script", the remembered file context and PIN verification status shall be restored. Else the default context shall be used.
RQ04_0106	7	If a non-shareable file is selected by the remembered file context, the mechanisms defined in ETSI TS 102 221 [3] limiting the access to non-shareable files shall apply.

RQ number	Clause	Description
RQ04_0201	7.1	The SELECT command shall not include the selection by DF name corresponding to
		P1='04' in the Command Parameters of SELECT (see ETSI TS 102 221 [3]).
RQ04_0202	7.1	The Response Data shall be placed in the Additional Response Data element of the
		Response Packet.
		If P3/Le = '00' in the READ RECORD command, then the UICC shall send back all data
		until the end of the data object from the current BER-TLV structure EF.
RQ04_0203	7.1	The Response Data shall be placed in the Additional Response Data element of the
		Response Packet.
		If P3/Le = '00' in the READ BINARY command, then the UICC shall send back all data
		until the end of the file, according to clause 5.1.
RQ04_0204	7.1	The Response Data shall be placed in the Additional Response Data element of the
		Response Packet.
		If P3/Le = '00' in the RETRIEVE DATA command, then the UICC shall send back all
		data until the end of the data object from the current BER-TLV structure EF.

RQ number	Clause	Description
RQ04_0301	7.2	A UICC Shared File System Remote File Management application shall have access
		only to the MF and all DFs and EFs that are located under the MF (see note 2).
RQ04_0302	7.2	Unless Script Chaining is used, the MF shall be implicitly selected and be the current
		directory at the beginning of a "Command session".
RQ04_0303	7.2	No ADF shall be accessed by the UICC Shared File System Remote File Management application.
RQ04_0304	7.2	The following commands shall apply for UICC Shared File System Remote File Management:
		Operational command
		SELECT (see below)
		UPDATE BINARY
		UPDATE RECORD
		SEARCH RECORD
		INCREASE
		VERIFY PIN
		CHANGE PIN
		DISABLE PIN
		ENABLE PIN
		UNBLOCK PIN
		DEACTIVATE FILE
		ACTIVATE FILE
		READ BINARY
		READ RECORD
		CREATE FILE
		DELETE FILE
		RESIZE FILE
		SET DATA
		RETRIEVE DATA
		The SELECT command shall not include the selection by DF name corresponding to
BO04 0205	7.2	P1='04' in the Command Parameters of SELECT.
RQ04_0305	1.2	The TAR value of the UICC Shared File System Remote File Management application is defined in ETSI TS 101 220 [6].
	0305 is for	information only.

RQ number	Clause	Description
NOTE 2: ADFs a	are not consid	dered to be files located under the MF.

RQ number	Clause	Description			
RQ04_0406	7.3	An ADF Remote File Management application shall have access to the DFs and EFs			
		located under the ADF.			
RQ04_0407	7.3	Unless Script Chaining is used, the ADF shall be implicitly selected and be the curre			
		directory at the beginning of a "Command session".			
RQ04_0408	7.3	The UICC Shared File System, i.e. the MF and all DFs and EFs that are located under			
· _		the MF, may also be accessed, depending on the access rights granted to the ADF			
		Remote File Management application.			
RQ04_0409	7.3	The following commands shall apply for ADF Remote File Management:			
		Operational command			
		SELECT (see below)			
		UPDATE BINARY			
		UPDATE RECORD			
		SEARCH RECORD			
		INCREASE			
		VERIFY PIN			
		CHANGE PIN			
		DISABLE PIN			
		ENABLE PIN			
		UNBLOCK PIN			
		DEACTIVATE FILE			
		ACTIVATE FILE			
		READ BINARY			
		READ RECORD			
		CREATE FILE			
		DELETE FILE			
		RESIZE FILE			
		SET DATA			
		RETRIEVE DATA			
		The SELECT command shall not include the selection by DF name corresponding to			
		P1='04' in the Command Parameters of SELECT.			
RQ04_0410	7.3	The TAR of an ADF RFM application shall be linked to the AID of the application to			
· _ · ·	-	which the ADF belongs.			
RQ04_0411	7.3	The TAR value of an ADF Remote File Management application is defined in			
···· · <b>_•</b> · · ·		ETSI TS 101 220 [6].			
NOTE: RQ04	1 0411 is for	information only.			

RQ number	Clause	Description
RQ04_0501		When using remote APDUs to perform RFM over HTTPS, the header values defined in ETSI TS 102 225 [2] apply. The RFM / HTTP communication flow is illustrated in annex B.

# 5.5 Remote Application Management (RAM)

Reference: ETSI TS 102 226 [1], clause 8.

RQ number	Clause	Description
RQ05_0101	8	Remote Application Management on a UICC card includes the ability to load, install, and remove applications.
RQ05_0102	8	The Remote Application Management is under the control of a security domain with card content management capabilities, such as the Issuer Security Domain or any Security Domain with Delegated Management privileges or Authorized Management as described in GlobalPlatform Card Specification [5].
RQ05_0103	8	All GlobalPlatform features and functionality that are described in the present clause, as well as the assignment of GlobalPlatform privileges shall comply with GlobalPlatform Card Specification [5] as detailed in the UICC Configuration [16].

RQ number	Clause	Description
RQ05_0104	8	A RAM Application shall support all features and functionality described in the present
		clause unless they are specifically described as optional.
RQ05_0105	8	The support of the APIs related to GlobalPlatform Card Specification [5] (Java Card
		API [25] or Multos API) is optional. If implemented, it shall follow the specification in the
		UICC Configuration [16], especially concerning the Secure Channel Interface usage.
RQ05_0106	8	Remote Application Management commands shall be executed according to table
		"Authorized GlobalPlatform Commands per Card Life Cycle State" of GlobalPlatform Card
		Specification [5].
RQ05_0107	8	The TAR value allocated for the Issuer Security Domain are defined in
		ETSI TS 101 220 [6]. The concept of embedding APDUs in a command packet and the
		Additional Response data in a response packet shall be as defined in the previous
		clauses describing the Compact and expanded Remote Application data format.
RQ05_0108	8	Unless a TAR is used that is configured for automatic application data format detection,
		the Compact and expanded Remote Application data formats shall be distinguished by
		different TAR values.
RQ05_0109	8	The Minimum Security Level of a RAM Application shall require at least integrity using CC
		or DS. It applies to all data formatted as secured data according to clause 4 of the present
		document and including all commands listed below:
		Onerstienel commond
		Operational command DELETE
		SET STATUS
		INSTALL
		LOAD
		PUT KEY
		GET STATUS
		GET DATA as case 2 command
		GET DATA as case 4 command
		(for Menu parameters) STORE DATA
	-	
RQ05_0110	8	A complying card shall support at least the triple DES algorithm in outer CBC mode for
	5.0100	cryptographic computations.
NOTE 1: RQ0	_	
		test cases for RQ05_0103, RQ05_0105 and RQ05_0106 is out of scope for the present
doci	iment.	

RQ number	Clause	Description
RQ05_0201	8.1	Remote Load File loading, Application installation, Load File removal, Application removal, Application locking/unlocking, Application information retrieval shall be compliant
D005 0000	0.4	to GlobalPlatform Card Specification [5] as detailed in the UICC Configuration [16].
RQ05_0202	8.1	Support of the application personalization described in Global Platform Card Specification [5] is optional.
RQ05_0203	8.1	As a RAM Application is a Receiving Application per clause 4, application selection (SELECT command) and command dispatching as described in GlobalPlatform Card Specification [5] do not apply to Remote Application Management.
	lopment of t ment.	est cases for RQ05_0201, RQ05_0202 and RQ05_0203 is out of scope for the present

RQ number	Clause	Description
RQ05_3801	8.2	Commands and responses shall be coded according to GlobalPlatform Card
		Specification [5] as detailed in the UICC Configuration [16] unless otherwise specified in
		the present document.
RQ05_3802	8.2	Secure messaging shall be based on ETSI TS 102 225 [2].
RQ05_3803	8.2	if additional application provider security as defined in clause 10.2 of
		ETSI TS 102 226 [1] is applied, the secure messaging as defined in GlobalPlatform Card
		Specification [5] shall not apply to RAM APDU commands and responses (e.g. MAC
		shall not be present in the command data field).
RQ05_3804	8.2	if additional application provider security as defined in clause 10.2 of
		ETSI TS 102 226 [1] is applied, the class byte shall indicate that an APDU command
		includes no secure messaging.
RQ05_3805	8.2	The logical channel number indicated in the class byte shall be zero.

RQ number	Clause	Description	
RQ05_3806	8.2	Command status words placed in the Additional Response Data element of the	
		Response Packet shall be coded according to the GlobalPlatform Card Specification [5]	
		as detailed in the UICC Configuration [16].	
NOTE: RQ05_3801, RQ05_3802, RQ05_3805 and RQ05_3806 are implicitly tested in the present document.			
Further detailed tests are out of the scope of the present document.			

RQ number	Clause	Description
RQ05_0301	8.2.1	The following standardized Application management commands shall be supported:
		Operational command
		DELETE
		SET STATUS
		INSTALL
		LOAD
		PUT KEY
		GET STATUS
		GET DATA as case 2 command
		GET DATA as case 4 command
		(for Menu parameters)
RQ05_0302	8.2.1	The Response Data shall be placed in the Additional Response Data element of the
		Response Packet.
RQ05_0303	8.2.1	Script chaining may be used for confidential application management as specified in
		clause 10 of ETSI TS 102 226 [1] or to chain a sequence of STORE DATA commands. It
		has no effect for other commands.
RQ05_0304	8.2.1	Whenever Script chaining is present for RAM, it shall be processed as defined in the present
D005 0005	0.0.1	document.
RQ05_0305	8.2.1	When using the Compact Remote Application data format and if an application session is
		saved beyond a command session as defined below, this session context shall be deleted
		upon card reset.

RQ number	Clause	Description
RQ05_0401	8.2.1.1	The Removal of Applications, of Executable Load Files, and of Executable Load Files and its
		related Applications shall be supported via DELETE command.
RQ05_0402		The warning status word '6200' (Application has been logically deleted) as defined in Open Platform Card Specification 2.0.1 [8] may be returned.

RQ number	Clause	Description
RQ05_0501	8.2.1.2	The management of Applications, Issuer Security Domain and Security Domains Life Cycle
		States shall be supported via SET STATUS.

RQ number	Clause	Description
RQ05_0601	8.2.1.3	INSTALL [for load], INSTALL [for install] and INSTALL [for make selectable] commands
		shall be supported.
RQ05_0602	8.2.1.3	INSTALL [for personalization] and Install [for extradition] command described in
		GlobalPlatform Card Specification [5] are optional.
RQ05_0603	8.2.1.3	A UICC supporting confidential application management as specified in clause 10 of [1]
		shall support INSTALL [for personalization].
RQ05_0604	8.2.1.3	If INSTALL [for personalization] and Install [for extradition] implemented, both commands
		shall follow the specification in the UICC Configuration [16].
RQ05_0605	8.2.1.3	The support of the combined [for install and make selectable] within the same INSTALL
		command is mandatory.
RQ05_0606	8.2.1.3	When using the Compact Remote Application data format, the context established by
		INSTALL [for load] shall be saved across command sessions until the last LOAD command.
RQ05_0607	8.2.1.3	When using the Compact Remote Application data format, the context established by
		INSTALL [for personalization] (if supported) shall be saved across command sessions until
		the STORE DATA command containing the last block.

RQ number	Clause	Description
RQ05_0701	8.2.1.3.1	Support and presence of the Load File Data Block Hash according to GlobalPlatform Card
		Specification [5] shall be as specified in the UICC Configuration [16].
RQ05_0702	8.2.1.3.1	If present, the Load Parameter Field of the INSTALL [for load] command shall be coded
		according to GlobalPlatform Card Specification [5].
RQ05_0703	8.2.1.3.1	If the System Specific parameters "Non volatile code space limit" (Tag 'C6'), "Volatile data
		space limit" (Tag 'C7') and "Non volatile data space limit" (Tag 'C8') are present, the UICC
		shall be able to handle them.

RQ number	Clause			Description					
RQ05_0801	8.2.1.3.2	If present, the	present, the Install Parameter Field of the INSTALL [for install] command shall be coded						
		according to (	cording to GlobalPlatform Card Specification [5].						
RQ05_0802	8.2.1.3.2		he System Specific parameters "Volatile data space limit" (Tag 'C7') and "Non volatile data						
		space limit" (	Гад 'С8') а	are present, the UICC shall be able to handle them.					
RQ05_0803	8.2.1.3.2			e shall be registered with the instance AID present in the INS	STALL [for				
		install] comma	and.						
RQ05_0804	8.2.1.3.2			applications, the application may invoke the register(bArray, I	bOffset,				
		bLength) or th							
RQ05_0805	8.2.1.3.2		n case of JavaCard <sup>™</sup> applications, If the register (bArray, bOffset, bLength) is invoked, the						
		AID passed in	AID passed in the parameters shall be the instance AID provided in the install method buffer.						
RQ05_0806	8.2.1.3.2			applications, If the register() method is invoked the instance A					
				. [for install] command and the AID within the Load File, as sp	pecified in				
		GlobalPlatfor	n Card Sp	pecification [5], should be the same.					
RQ05_0807	8.2.1.3.2	The "UICC Sy	/stem Spe	ecific Parameters" TLV object (Tag 'EA', as defined below) is	included in				
		the Install Par	rameter Fi	eld and shall be coded as follows:					
		Presence	Length	Name	Value				
		Optional	1	Tag of UICC System Specific Parameters constructed field	'EA'				
1 to 3 Length of UICC System Specific Parameters constructed									
field as specified in GlobalPlatform Card Specification									
for TLV data objects. Coded as defined in									
				ETSI TS 101 220 [6] for a BER-TLV data object					
			0 to n	UICC System Specific Parameters constructed value field					

RQ number	Clause		Description						
RQ05_0901	8.2.1.3.2.1	as de	The "SIM File Access and Toolkit Application Specific Parameters" TLV object (Tas defined below) is included in the "System Specific Parameters" (Tag 'EF') and coded as follow:						
		Pr	resence	Length	Name	Value			
		0	Optional	1	Tag of SIM file access and toolkit application specific parameters field	'CA'			
				1 to 3	Length of SIM file access and toolkit application specific parameters field. Coded as defined in ETSI TS 101 220 [6] for a BER-TLV data object				
				6 to n	SIM file access and toolkit Application specific Parameters				
RQ05_0902	8.2.1.3.2.1	.2.1.3.2.1 The SIM file access and toolkit application specific parameters field is used to terminal and UICC resources the application instance can use. These resources the timers, the Bearer Independent protocol channels, menu items for the Set the Minimum Security Level and the TAR Value(s) field.							

RQ number	Clause		Description	
RQ05_0903	8.2.1.3.2.1	sim.toolkit.To TS 143 019 [	access and toolkit parameters are mandatory for application olkitInterface or sim.access.SIMView interface as defined in 12]. The Access Domain is applicable to applications using iIMView interface as defined in ETSI TS 143 019 [12]:	n ETSI
		Length	Name	Value
		1	Length of Access Domain field	
		1 to p	Access Domain	
		1	Priority level of the Toolkit application instance	
		1	Maximum number of timers allowed for this application instance	
		1	Maximum text length for a menu entry	
		1	Maximum number of menu entries allowed for this application instance	= m
		1	Position of the first menu entry	\
		1	Identifier of the first menu entry ('00' means do not care)	
				= 2 × m bytes
		1	Position of the last menu entry	
		1	Identifier of the last menu entry ('00' means do not care)	/
		1	Maximum number of channels for this application instance	
		1	Length of Minimum Security Level field	
		0 to q	Minimum Security Level (MSL)	
		1	Length of TAR Value(s) field	
		3 × y	TAR Value(s) of the Toolkit Application instance	

RQ number	Clause			Description				
RQ05_1001	8.2.1.3.2.2	System Spee	the SIM file access and toolkit parameters TLV object (tag 'CA') is present and the UICC /stem Specific Parameters TLV object (tag 'EA') is present, the card shall return the Status ord '6A80', incorrect parameters in data field, to the INSTALL [for install] command.					
RQ05_1002	8.2.1.3.2.2	The UICC S	ystem Sp	ecific Parameters constructed value field of the INSTALL [fo				
		Presence	Length	Name	Value			
		Optional	1	Tag of UICC Toolkit Application specific parameters field	'80'			
			1	Length of UICC Toolkit Application specific parameters field				
			N	UICC Toolkit Application specific parameters				
		Optional	1	Tag of UICC Toolkit parameters DAP	'C3'			
			1	Length of UICC Toolkit parameters DAP				
			Ν	UICC Toolkit parameters DAP				
		Optional	1	Tag of UICC Access Application specific parameters field	'81'			
			1	Length of UICC Access Application specific parameters field				
			Ν	UICC Access Application specific parameters				
		Optional	1	Tag of UICC Administrative Access Application specific parameters field	'82'			
			1	Length of UICC Administrative Access Application specific parameters field				
			N	UICC Administrative Access Application specific parameters				
RQ05_1003	8.2.1.3.2.2		meters fie	r the same ADF may be present in both the UICC Access A eld and the UICC Administrative Access Application specific				
RQ05_1004	8.2.1.3.2.2	Access para	meters fo pecific pa	r the same UICC file system may be present in both the UIC arameters field and the UICC Administrative Access Applica eld.				

RQ number	Clause		Description					
RQ05_1101	8.2.1.3.2.2.1	The UICC t	oolkit application specific parameters field is used to specify the	terminal and				
			urces the application instance can use. These resources include					
		the Bearer	Independent Protocol channels, the services for local bearers, m	enu items for				
		the Set Up	Menu, the Minimum Security Level and the TAR Value(s) field.					
RQ05_1102	8.2.1.3.2.2.1	The UICC 1	Foolkit Application specific parameters are mandatory for applica	tions using				
		the uicc.toc	lkit.ToolkitInterface defined in ETSI TS 102 241 [7] and for Apple	ets extending				
			Extension interface as defined in ETSI TS 102 588 [17] that make	e use of the				
			andler and the ProactiveResponseHandler.					
RQ05_1103	8.2.1.3.2.2.1	None of the	e toolkit resources will be accessible if the UICC Toolkit Application	on specific				
			are missing.					
RQ05_1104	8.2.1.3.2.2.1	UICC Toolk	kit Application specific parameters shall be coded as follows:					
		Length	Name	Value				
		1	Priority level of the Toolkit application instance					
		1	Maximum number of timers allowed for this application					
			instance					
		1	Maximum text length for a menu entry					
		1	Maximum number of menu entries allowed for this application instance	= m				
		1	Position of the first menu entry	١				
		1	Identifier of the first menu entry ('00' means do not care)					
				$ =2 \times m$				
				bytes				
		1	Position of the last menu entry					
		1	Identifier of the last menu entry ('00' means do not care)	/				
		1	Maximum number of channels for this application instance					
		1	Length of Minimum Security Level field					
		0-q	Minimum Security Level (MSL)					
		1	Length of TAR Value(s) field					
		3 × y	TAR Value(s) of the Toolkit Application instance					
		1	Maximum number of services for this application instance					
RQ05_1105	8.2.1.3.2.2.1	Any additio	nal parameters shall be ignored by the card.	I				
	05_1101 is for							

RQ number	Clause	Description							
RQ05_1201	8.2.1.3.2.2.2	The UICC access ap	pplication specific parameters field is used to spec	cify the access					
		rights. The application instance is granted access rights to files only according to these							
		UICC access param	eters.	-					
RQ05_1202	8.2.1.3.2.2.2	The UICC access ap	oplication specific parameters are applicable to ap	plications using th					
		uicc.access.FileViev	v defined in ETSI TS 102 241 [7]. These parameter	ers shall be coded					
		as follows:							
		Desserves	News	Loweth					
		Presence	Name	Length					
			Length of UICC file system AID	1					
			Empty UICC file system AID	0					
		0	Length of Access Domain for UICC file system	1					
			Access Domain for UICC file system	n					
			Length of Access Domain DAP	1					
			Access Domain DAP	0 or n					
			Length of ADF #1 AID	1					
			ADF #1 AID	5 to 16					
		0	Length of Access Domain for ADF #1	1					
			Access Domain for ADF #1	N					
			Length of Access Domain DAP #1	1					
			Access Domain DAP #1	0 or n					
			Length of ADF #n AID	1					
			ADF #n AID	5 to 16					
		0	Length of Access Domain for ADF #n	1					
			Access Domain for ADF #n	n					
			Length of Access Domain DAP #n	1					
			Access Domain DAP #n	0 or n					
NOTE: RQ	05_1201 is for	information only.							

RQ number	Clause	Description					
RQ05_1301	8.2.1.3.2.2.3	The UICC toolkit parameters DAP is an optional signature. The card issuer's secure policy may require the presence of this DAP.					
RQ05_1302	8.2.1.3.2.2.3	The input data used to compute UICC toolkit parameters DAF following data:	P is the concatenation of				
		Description	Length				
		Length of instance AID	1				
		Instance AID	5 to 16				
		Length of UICC Toolkit parameters	1				
		UICC Toolkit parameters	n				
		The key used to compute this DAP is: Key identifier '02' of Ke the Issuer Security Domain.	y Version number '11' in				
RQ05_1303	8.2.1.3.2.2.3	Depending on the key type for DAP, if padding is required by appended by '80' and filled up with zero or more '00'.	the algorithm, the data is				
RQ05_1304	8.2.1.3.2.2.3	Depending on the key type for DAP, if DES is used, MAC in C chaining value set to zero shall be used.	CBC mode with initial				
RQ05_1305	8.2.1.3.2.2.3	Depending on the key type for DAP, if AES [13] is used, CMA The length of the MAC shall be associated with the key.	C mode [15] shall be us				

RQ number	Clause	Description
RQ05_1401	8.2.1.3.2.2.4	The UICC Administrative access application specific parameters field is used to specify the access rights. The application instance is granted access rights to administrate files only according to these UICC Administrative access parameters.
RQ05_1402	8.2.1.3.2.2.4	The UICC Administrative access application specific parameters are applicable to applications using the uicc.access.fileadministration.AdminFileView defined in ETSI TS 102 241 [7]. These parameters shall be coded as defined in ETSI TS 102 226 [1], clause 8.2.1.3.2.2.2.

RQ number	Clause	Description
RQ05_1501	8.2.1.3.2.3	If the maximum number of timers required for Toolkit Application Specific Parameters is greater than '08' (maximum numbers of timers specified in ETSI TS 102 223 [4]), the card shall return the Status Word '6A80', incorrect parameters in data field, to the INSTALL [for install] command.
RQ05_1502	8.2.1.3.2.3	If the maximum number of channels required for Toolkit Application Specific Parameters is greater than '07' (maximum numbers of channels specified in ETSI TS 102 223 [4]), the card shall return the Status Word '6A80', incorrect parameters in data field, to the INSTALL [for install] command.
RQ05_1503	8.2.1.3.2.3	If the maximum number of services requested for Toolkit Application Specific Parameters is greater than '08' (maximum numbers of services specified in ETSI TS 102 223 [4]), the card shall return the Status Word '6A80', incorrect parameters in data field, to the INSTALL [for install] command.
RQ05_1504	8.2.1.3.2.3	The mechanism to manage the position of the Menu Entries for Toolkit Application Specific Parameters is defined in ETSI TS 102 241 [7].
RQ05_1505	8.2.1.3.2.3	<ul> <li>A part of the item identifier for Toolkit Application Specific Parameters shall be under the control of the card system and the other part under the control of the card issuer. Item identifiers are split in two ranges: <ul> <li>[1127] under control of the card issuer.</li> <li>[128255] under the control of the toolkit framework.</li> </ul> </li> </ul>
RQ05_1506	8.2.1.3.2.3	If the requested item identifier for Toolkit Application Specific Parameters is already allocated, or in the range [128255], then the card shall reject the INSTALL command.
RQ05_1507	8.2.1.3.2.3	If the requested item identifier for Toolkit Application Specific Parameters is '00', the card shall take the first free value in the range [128255].
NOTE: RQ	05_1505 is fo	or information only.

RQ number	Clause	Description
RQ05_1601		If the length of the Minimum Security Level (MSL) field for Toolkit Application Specific Parameters is zero, no minimum security level check shall be performed by the Receiving Entity.

RQ number Clause Description If the length of the Minimum Security Level (MSL) field for Toolkit Application Specific Parameters is greater than zero, the Minimum Security Level (MSL) field shall be coded RQ05\_1602 8.2.1.3.2.4 according to the following table: Name Length MSL Parameter MSL Data 1

q to 1

 The MSL	Data coding	and length	is defined for	each MSL F	Parameter.

RQ number	Clause		Description				
RQ05_1701	8.2.1.3.2.4.1	The possible are:	he possible values for the MSL Parameter for Toolkit Application Specific Parameters re:				
		Value	Value Name Support MSL Data length				
		'00'	'00' RFU		N/A		
		'01'	Minimum SPI1	Optional	1		
		'02' to '7F'	RFU	RFU	N/A		
		'80' to 'FE'	0' to 'FE' Reserved for Proprietary Mechanisms Optional N/A				
		'FF'	RFU	RFU	N/A		

RQ number	Clause	Description
RQ05_1801	8.2.1.3.2.4.2	The Minimum Security Level Data (MSLD) for the Minimum SPI1 MSL parameter for Toolkit Application Specific Parameters shall use the same coding as the first octet of the SPI of a command packet (see clause 5.1.1 of ETSI TS 102 225 [2]).
RQ05_1802		<ul> <li>The first octet of the SPI field of MSL parameter in the incoming message Command</li> <li>Packet (SPI1) shall be checked against the Minimum Security Level Data (MSLD) byte</li> <li>by the receiving entity according to the following rules: <ul> <li>if SPI1.b2b1 is equal to or greater than MSLD.b2b1;</li> <li>if SPI1.b3 is equal to or greater than MSLD.b3; and</li> <li>if SPI1.b5b4 is equal to or greater than MSLD.b5b4.</li> </ul> </li> <li>then the Message Security Level is sufficient and the check is successful, otherwise the check is failed.</li> </ul>

RQ number	Clause		Description			
RQ05_1901	8.2.1.3.2.5	The Access Domain follows:	ne Access Domain field for Toolkit Application Specific Parameters is formatted as llows:			
		Ler	Length Name			
		1	1 Access Domain Parameter (ADP)			
		p to	o 1	Access Domain Data (ADD)		
		The Access Domain Data (ADD) coding and length is defined for each Access Domain Parameter (ADP).				

RQ number	Clause		Description	n			
RQ05_2001	8.2.1.3.2.5.1		ne Access Domain Parameter indicates the mechanism used to control the application stance access to the File System:				
		Value	Name	Support	ADD length		
		'00'	Full access to the File System	Mandatory	0		
		'01'	Reserved (for APDU access	-	-		
			mechanism)				
		'02'	UICC access mechanism	Mandatory	3		
		'03' to '7F'	RFU	RFU	RFU		
		'80' to 'FE'	Proprietary mechanism	-	-		
		'FF'	No access to the File System	Mandatory	0		
RQ05_2002	8.2.1.3.2.5.1		The access rights granted to an application and defined in the access domain parameter shall be independent from the access rights granted at the UICC/Terminal interface.				

RQ number	Clause	Description
RQ05_2003	8.2.1.3.2.5.1	The access rights granted to an application implies in particular that the status of a secret code (e.g. disabled PIN1, blocked PIN2, etc.) at the UICC/Terminal interface does not affect the access rights granted to an application.
RQ05_2004	8.2.1.3.2.5.1	If an application with Access Domain Parameter (ADP) 'FF' (i.e. No Access to the File System) tries to access a file the framework shall throw an exception.
RQ05_2005	8.2.1.3.2.5.1	If an application has Access Domain Parameter (ADP) '00' (i.e. Full Access to the File System), all actions can be performed on a file except the ones with NEVER access condition.
RQ05_2006	8.2.1.3.2.5.1	If the Access Domain Parameter (ADP) requested is not supported, the card shall return the Status Word '6A80', incorrect parameters in data field, to the INSTALL [for install] command.

RQ number	Clause	Description
RQ05_2101	8.2.1.3.2.5.2	The UICC access mechanism shall be coded as specified in clause 8.2.1.3.2.5.2 in ETSI TS 102 226 [1].
RQ05_2102		The Access Domain Data for UICC access mechanism shall be checked against SE ID 01 access rules as defined in ETSI TS 102 221 [3].

RQ number	Clause		Description				
RQ05_2201	8.2.1.3.2.5.3	The Access Domain [	DAP is an optional signature. The s	security polic	cy of the provider of		
		the application to which	he application to which the file system belongs may require the presence of this DAP.				
RQ05_2202	8.2.1.3.2.5.3	The input data used to	The input data used to compute the Access Domain DAP is the concatenation of the				
		following data:		-			
			Description Length				
			Length of instance AID	1			
			Instance AID	5 to 16			
			Length of File System AID	1			
			File System AID	0 or n			
			Length of Access Domain	1			
			Access Domain	n			
RQ05_2203	8.2.1.3.2.5.3	In case of UICC share	ed File system, the Length of File S	System AID	is 0 and the File		
		System AID is not pre	esent in the Access Domain DAP.	-			
RQ05_2204	8.2.1.3.2.5.3		pute the Access Domain DAP is: K				
			curity Domain associated to the ap				
			ase of UICC shared file system, the				
			curity Domain or another Security I	Domain, de	pending on the card		
		issuer's security polic					
RQ05_2205	8.2.1.3.2.5.3		y type for the Access Domain DAP				
			appended by '80' and filled up with				
RQ05_2206	8.2.1.3.2.5.3		y type for the Access Domain DAP,	, if DES is u	sed, MAC in CBC		
		mode with initial value set to zero shall be used.					
RQ05_2207	8.2.1.3.2.5.3		y type for the Access Domain DAP,				
		mode [15] shall be us	ed. The length of the MAC shall be	e associated	l with the key.		

RQ number	Clause	Description
RQ05_2301	8.2.1.3.2.6	The Priority level of the toolkit application specifies the order of activation of an application
		compared to the other application registered to, the same event.
RQ05_2302		If two or more applications are registered to the same event and have the same priority level, the applications are activated according to their installation date (i.e. the most recent application is activated first).
RQ05_2303		The following values are defined for priority level of the toolkit application: <ul> <li>'00': RFU.</li> <li>'01': Highest priority level.</li> <li></li> <li>'FF': Lowest priority level.</li> </ul>

RQ number	Clause		Description					
RQ05_2401	8.2.1.3.2.7	The TAR is defined and	ne TAR is defined and coded according to ETSI TS 101 220 [6].					
RQ05_2402	8.2.1.3.2.7	It is possible to define se	everal TAR Values at the installation of a To	olkit Application.				
RQ05_2403	8.2.1.3.2.7	The TAR Value(s) field s	shall be coded according to the following tab	ole:				
		Bytes	Description	Length				
		1 to 3	1 to 3 TAR Value 1 3					
		4 to 6	4 to 6 TAR Value 2 3					
		$3 \times y$ -2 to $3 \times y$	$3 \times y-2$ to $3 \times y$ TAR Value y 3					
RQ05_2404	8.2.1.3.2.7	If the length of TAR Valu	ue(s) is zero, the TAR may be taken out of the	ne AID if any.				
RQ05_2405	8.2.1.3.2.7		Value(s) is greater than zero then the applic					
		installed with the TAR Va	alue(s) field defined above and the TAR ind	icated in the AID if any				
		shall be ignored.	shall be ignored.					
RQ05_2406	8.2.1.3.2.7		a TAR Value(s) is already assigned on the card for a Toolkit Application instance or if the					
			ield is incorrect, the card shall return the Sta					
		incorrect parameters in o	data field, to the INSTALL [for install] comm	and.				

RQ number	Clause			Description				
RQ05_2501	8.2.1.3.2.8		An application intended to operate in contactless card emulation mode as defined in ETSI TS 102 622 [23] shall be installed as specified in GlobalPlatform Amendment C [22].					
RQ05_2502	8.2.1.3.2.8		An application intended to operate in contactless reader mode as defined in ETSI TS 102 622 [23] shall be installed with parameters given below in clauses 8.2.1.3.2.8.1 and 3.2.1.3.2.8.2.					
RQ05_2503	8.2.1.3.2.8		If present, the "Additional Contactless Parameters" TLV object (tag 'B0') shall be included in the "System Specific Parameters" (tag 'EF').					
RQ05_2504	8.2.1.3.2.8	The value part of "A	The value part of "Additional Contactless Parameters" shall be coded as follows:					
		Tag	Length	Value	Presence			
		'86'	'86' 1 Reader mode protocol data Type A Optional					
		'87'						
RQ05_2505	8.2.1.3.2.8	The presence of the TLVs "Reader mode protocol data Type" indicates the RF technology/technologies that will be active once the Application Availability State of the application as defined in GlobalPlatform Amendment C [22] changes to ACTIVATED.						
RQ05_2506	8.2.1.3.2.8	To present a reader mode application to the user, user interaction parameters as specified in GlobalPlatform Amendment C [22] shall be included in the installation parameters. Applicable parameters for reader mode applications are Application Visibility and Application Family.						
NOTE: RG	05_2505 is fo	or information only.						

RQ number	Clause	Description				
RQ05_2601	8.2.1.3.2.8.1	The value part of the	e value part of the Reader mode protocol data Type A has the following coding:			
		Parameter	Parameter Value Length			
			DATARATE_MAX Maximum data rate supported as defined in ETSI 1 TS 102 622 [23]			

RQ number	Clause		Description				
RQ05_2701	8.2.1.3.2.8.2	he value part of the Reader mode protocol data Type B has the following coding:					
		Parameter Value Ler					
			Application family identifier as defined in ETSI TS 102 622 [23]	1			
		HIGHER_LAYER_DATA_LENGTH	Length of HIGHER_LAYER_DATA	1			
		HIGHER_LAYER_DATA	Higher layer data as defined in ETSI	N			
			TS 102 622 [23]				

RQ number	Clause	Description
RQ05_2801		A card supporting DAP verification shall support at least DES scheme for Load File Data Block Signature computation according to GlobalPlatform Card Specification [5].
RQ05_2802	-	When using the Compact Remote Application data format, the context established by INSTALL [for load] shall be saved across command sessions for the whole sequence until the last LOAD command.

RQ number	Clause	Description
RQ05_2901	8.2.1.5	Key version number and key identifiers of KIc, KID and DEK shall be defined according to ETSI TS 102 225 [2].
		The key used for ciphering the key values (e.g. KIc, KID or DEK) of the PUT KEY command is the key with identifier 3 (i.e. DEK). It is a static key.
RQ05_2902	8.2.1.5	If a DES key is used to cipher a key value of the PUT KEY command, the ciphering mode shall be ECB as defined in NIST SP 800-38A [7].
RQ05_2903	8.2.1.5	When replacing or adding key(s) within the same key set, or when updating the key version number of a key set, the encrypting key to be used is the DEK of the same key version number as the changed key(s).
RQ05_2904	8.2.1.5	When creating keys or key set(s) or when replacing keys that do not belong to a keyset, the encrypting key to be used is the DEK of the same key version number as KIc and KID in the Command Packet containing the PUT KEY command.
RQ05_2905	8.2.1.5	The key version number of KIc and KID used to secure the Response Packet shall be the same as the key version number indicated in the Command Packet.
RQ05_2906	8.2.1.5	The transport security keys (i.e. KIc/KID) used to secure the Response Packet shall be the same as the ones of the Command Packet containing the PUT KEY command.

RQ number	Clause		Description							
RQ05_3101	8.2.1.5.1	If the command PUT KEY as defined in [5] is used with an AES key as encryption key								
		(DEK), the remote entity shall cipher key values of AES keys only with an AES key of the								
			same or greater length, where AES is the algorithm defined in [13].							
RQ05_3102	8.2.1.5.1	If the command PUT KEY as defir	ned in [5] is u	ised with an AES key as	encryption ke	зy				
		(DEK), the coding of the key type								
RQ05_3103	8.2.1.5.1	If the command PUT KEY as defir								
		(DEK), the definitions of the comm	nand PUT KE	EY as defined in [5] shall	be extended	as				
		in RQ05_3103 to RQ05_3109.								
RQ05_3104	8.2.1.5.1	The field "length of the key or key			be set to the					
		length of the "key data value" defin								
RQ05_3105	8.2.1.5.1	The "key data value" defined in [5]	shall be cor	nstructed as follows:						
					-	1				
		Description	Length	Value	Presence					
		Length of the key in bytes	1	16, 24 or 32 for AES	Mandatory					
			4000	16 or 24 for triple DES		-				
		Ciphered key	16 or 32	4 0	Mandatory	-				
D005 0400	0.0454	Length of the MAC in bytes 1 4 or 8 Conditional								
RQ05_3106	8.2.1.5.1	The field "length of the key in bytes" shall be set to the length of the key contained in the								
D005 0407	0.0454	field "ciphered key" (without padding).								
RQ05_3107	8.2.1.5.1	The field "length of the MAC" shall be present if "ciphered key" contains an AES key with								
		key identifier '02' and key version '01' to '0F' or '11' (see clause "Coding of the KID for								
DO05 0400	0.0454	Cryptographic Checksum" in ETSI								
RQ05_3108	8.2.1.5.1	Key ciphering in case of PUT KEY for AES shall use CBC mode as defined in [14] with								
DO05 0400	0.0454		nitial chaining value set to zero. Keys that do not fill whole blocks of the AES ciphering scheme (e.g. AES with a key							
RQ05_3109	8.2.1.5.1									
		length of 192 bits or triple DES usi				a				
		block boundary. Padding octets m	ay nave any	value.						

RQ number	Clause	Description						
RQ05_3201	8.2.1.6	Specification [5],	In addition to the mandatory values of the P1 parameter defined in GlobalPlatform Card Specification [5], combinations of the P1 parameter, i.e. setting more than one bit of b5 to b8, may be supported for command GET STATUS.					
RQ05_3202	8.2.1.6		The LOGICALLY_DELETED Life Cycle State may be returned as defined in Open Platform Card Specification 2.0.1 [8].					
RQ05_3203	8.2.1.6	If bit 2 of the P2 parameter in GET STATUS is set, the returned GlobalPlatform Registry Data TLV shall include an SCP Registry Data TLV (see table below for coding) which includes a Menu Parameters TLV for Issuer Security Domain, Security Domains and Applications:						
		T	AG	Length	Value	1		
		'E	EA'	Variable	SCP Registry Data			
		10	80'	Variable	Menu parameters (see clause 8.2.1.6.1)	]		

RQ number	Clause	Description
RQ05_3204		When using the Compact Remote Application data format, the context established by GET STATUS [get first or all occurrence(s)] shall be saved across command sessions as long as more output data related to the initial GET STATUS command is available on the UICC.

RQ number	Clause	Description						
RQ05_3301	8.2.1.6.1	.1.6.1 The format of Menu parameters of SCP Registry Data shall be as follow:						
		Description	Length	]				
		First menu entry position	1					
		First menu entry identifier	1					
		First menu entry state	1	]				
		Last menu entry position	1					
		Last menu entry identifier	1					
		Last menu entry state	1					
RQ05_3302	8.2.1.6.1	The menu entry identifiers and positions of SCP Re the Menu Entries list defined in ETSI TS 102 241 [7 menu entry state as well as regardless of the Applic (e.g. Selectable/Locked, etc.).	], and shall be returned re ation life cycle state					
RQ05_3303	8.2.1.6.1	<ul> <li>The menu entry state of SCP Registry Data is defin</li> <li>'00': menu entry is disabled.</li> <li>'01': menu entry is enabled.</li> <li>other values: RFU.</li> </ul>	ed as follows:					

RQ number	Clause	Description					
RQ05_3401	8.2.1.7	For command GET DATA, the value '80' for the CLA byte shall be supported. The value '00'					
		for the CLA byte is optional.					
RQ05_3402	8.2.1.7	The Issuer Security Domain shall support at least the following data object tags in GET DATA:					
		Tag '66': Card Data.					
		Tag 'E0': Key Information Template.					
RQ05_3403	8.2.1.7	If a UICC contains an Application Provider Security Domain with Delegated Management					
		privilege, the tag values '42' and '45' shall be supported by the ISD as specified in the UICC					
		Configuration for GET DATA [16].					
RQ05_3404	8.2.1.7	An Application Provider Security Domain shall support at least the data object tags: Tag 'E0':					
		Key Information Template in GET DATA.					
RQ05_3405	8.2.1.7	The command Get Data is extended to retrieve specific card information with tag values in P1					
		and P2. The following values have been defined:					
		<ul> <li>'FF 1F': Reserved for ETSI TS 123 048 [10].</li> </ul>					
		<ul> <li>'FF 20': Reserved for ETSI TS 123 048 [10].</li> </ul>					
		<ul> <li>'FF 21': Extended Card Resources Tag, this retrieves information on the card</li> </ul>					
		resources used and available.					
		'FF 22' to 'FF 3F': reserved for allocation in the present document.					

RQ number	Clause			Description			
RQ05_3501	8.2.1.7.2	The Extended C	The Extended Card resources information data object shall be supported by the ISD.				
RQ05_3502	8.2.1.7.2		After the successful execution of the command, the GET DATA response data field shall be coded as defined in GlobalPlatform [5].				
RQ05_3503	8.2.1.7.2	The value of the of the GET DAT		ed data object referred to in reference contr nd message is:	ol param		
			Length	Description	Value		
			1	Number of installed application tag	'81'		
			1	Number of installed application length	Х		
			X Number of installed application				
			1	Free non volatile memory tag	'82'		
		1 Free non volatile memory length Y					
		Y Free non volatile memory					
			1	Free volatile memory tag	'83'		
			1	Free volatile memory length	Z		
			Z	Free volatile memory			

RQ number	Clause	Description
RQ05_3504	8.2.1.7.2	The free memory indicated in GET DATA shall be at least available for applications to be
		loaded into the ISD.

RQ number	Clause			Description		
RQ05_3601	8.2.1.8	A UICC support	ing confide	ntial application management as specified in clause 1	0 of	
				support the STORE DATA command as specified in th	ne UICC	
		Configuration [1				
RQ05_3602	8.2.1.8			TA command described in GlobalPlatform Card Specif		
				arty Security Policy requires management of Executab		
		access constrai	nts, it shall	be supported as specified in the following REQ_xx - R	REQ_YY.	
RQ05_3603	8.2.1.8			Remote Application data format, the context establishe		
				on] (if supported) shall be saved across command ses	sions until	
				nd containing the last block.		
RQ05_3604	8.2.1.8			and is sent to a Security Domain to specify access righ		
				le Load Files for a specified Third Party Security Doma		
RQ05_3605	8.2.1.8			e Load File List is present in the STORE DATA comm		
		Executable Loa	d File spec	ified in the list shall be considered as Forbidden for the	e indicated	
		Third Party Sec	urity Doma	in. Any other Executable Load File not present in the I	ist is allowed	
				y Security Domain.		
RQ05_3606	8.2.1.8			Load Files performed by the Third Party Security Don		
				one or more Forbidden Executable Load Files. Access		
				ady present on card are not affected by the command		
RQ05_3607	8.2.1.8	If a STORE DA	TA Comma	nd is resent to a Security Domain, specifying a Third F	Party Security	
				den Executable Load File List has already been define		
				d File List replaces the previous list for this Third Party		
				den Executable Load File List is empty the access rest		
				omain are removed from the addressed Security Doma		
RQ05_3608	8.2.1.8			Executable Load File from being set as Forbidden for	its	
		associated Sec				
RQ05_3609	8.2.1.8			and to load Forbidden Load File List shall support the c		
		multiple STORE DATA commands to transfer large amounts of data. Parameter P1 of				
				on encrypted data and BER-TLV format of the commar		
RQ05_3610	8.2.1.8	TAG 'BE' is used to specify a Forbidden Load File List in STORE DATA; the Third Party				
				object and the Forbidden Load Files AID TLV objects a		
				d Message to define the list of Forbidden Load Files for	or the Third	
		Party Security D	omain.			
		Presence	Length	Name	Value	
		Mandatory	1	Tag of Forbidden Executable Load Files AIDs	'BE'	
		Ivial luatory	1	constructed field	DE	
		Mandatory	1 or 2	Length of Forbidden Executable Load Files AIDs		
		Ivial luatory	1012	constructed field		
		Mandatory		Third Party Security Domain AID TLV		
		Optional		Forbidden Executable Load File #1 AID TLV		
		Optional		Forbidden Executable Load File #1 AID TLV		
		Ontional		Forbidden Load File #N AID TLV		
	0.04.0	Optional				
RQ05_3611	8.2.1.8			omain AID TLV and the Forbidden Load File AID TLV	s are coded	
L		as BER-ILV as	aetined in	ETSI TS 101 220 [6] using tag '4F'.		

RQ number	Clause	Description
RQ05_3701	8.3	When using remote APDUs to perform RAM over HTTPS, the header values defined in
		Amendment B of the Global Platform Card Specification v 2.2 [19] apply.

## 5.6 Additional command for push

Reference: ETSI TS 102 226 [1], clause 9.

RQ number	Clause	Description
RQ06_0101		The PUSH command enables an application to open a BIP channel, to establish a CAT_TP link, to open a TCP connection and/or to send an identification packet on TCP upon a remote entity request.
NOTE: RQ0	6 0101 is a def	

RQ number	Clause	Description	
RQ06_0201		PUSH command shall be considered completed once the terminal response to the	
		OPEN CHANNEL proactive command has been received by the application.	
RQ06_0301	9.1.2	PUSH command shall be considered completed once the link reaches the OPEN	
		state in CAT_TP or the link establishment is terminated due to an error condition.	

RQ number	Clause	Description
RQ06_0401		It is mandatory for applications that process PUSH commands to support additional response data management. The additional response data shall be coded as defined in clause 9.2 in ETSI TS 102 226 [1].

RQ number	Clause	lause Description		
RQ06_0501		The request for a TCP connection allows a remote entity to ask an application on the UICC to establish a TCP connection as defined in ETSI TS 102 483 [20].		
NOTE: RQ0				

RQ number	Clause	Description
RQ06_0601	9.1.5	The request for an identification packet allows a remote entity to ask an application on the
		UICC to send a data packet containing identification information on a TCP connection.

RQ number	Clause			Description	
RQ06_0701	9.2	in addition to the	Each command is coded as an APDU. The support of PUSH command shall be supported in addition to the command tables defined in clauses 7 and 8 of ETSI TS 102 226 [1] for applications supporting BIP and/or CAT_TP.		
RQ06_0702	9.2	The PUSH comm	nand sha	all be coded as follows:	
		С	ode	Value	
		C	LA	'80'	
		IN	٧S	'EC'	
		P	۲ <b>۱</b>	'01'	
				'80' reserved for application specific usage	
		P	2	'01': Request for BIP channel opening	
				'02': Request for CAT_TP link establishment	
				'03': Request for TCP connection	
				'04': Request for Identification Packet	
				(see note)	
		Lo	C	Length of subsequent data field	
		D	Data	Described below	
		N	IOTE:	These values only apply for P1 = '01'.	

RQ number	Clause	Description
RQ06_0801	9.2.1	For Command data BIP channel opening; any COMPREHENSION-TLV data objects as defined for OPEN CHANNEL in ETSI TS 102 223 [4] can be present in the data field of the PUSH command. In addition, the application may define default values for one or more of these data objects.
RQ06_0802	9.2.1	The application shall use the data objects provided by both means to construct the OPEN CHANNEL command, whereby the objects provided in the PUSH command take precedence.
RQ06_0803	9.2.1	For OPEN CHANNEL, related to packet data service bearer, in ETSI TS 102 223 [4] the "Other address (local address)" parameter shall not be included in the command.

RQ number	Clause	Description
RQ06_0804	9.2.1	For OPEN CHANNEL, related to packet data service bearer, in ETSI TS 102 223 [4] the "Login" parameter and "Password" parameter shall be both present or absent in the command.
RQ06_0805	9.2.1	If the rules in RQ06_0803 and RQ06_0804 are not satisfied the Push requesting BIP open channel is rejected with status word set to '6A 80'.
RQ06_0806	9.2.1	If the OPEN CHANNEL command was successful (general result < '10'), the status word of the PUSH command shall be set to '90 00'.
RQ06_0807	9.2.1	If the OPEN CHANNEL command fails (general result $\geq$ '10'), the status word of the PUSH command shall be set to '6F 00' and the Result TLV of the TERMINAL RESPONSE shall be used as response data in the additional response data.

RQ number	Clause		Description		
RQ06_0901	9.2.2	Data of Commands for CAT	_TP link establishment shall have the following	format:	
		Description	Format from ETSI TS 102 223 [4]	M/O/C	
		CAT_TP Destination Port	UICC/terminal interface transport level	М	
		Max SDU size	Buffer size	0	
		Identification data	Channel data	0	
RQ06_0902	9.2.2		t the transport protocol type is insignificant and nd, an allocable port number shall be used.	I shall be set to	
RQ06_0903	9.2.2	If the Max SDU size data obj	ect is present in the command data field of the ta object, and if the size is available on the UIC		
RQ06_0904	9.2.2	If the Max SDU size data object is not present in the command data field of the PUSH command or is null data object, or if the UICC is not able to provide the requested size, then the UICC shall use another appropriate value.			
RQ06_0905	9.2.2	The identification data object present in the command data field of the PUSH command shall be used as identification data in the SYN PDU sent from the UICC.			
RQ06_0906	9.2.2	If the identification data object present in the command data field of the PUSH command is of zero length, the length of the identification data in the SYN PDU shall also be zero.			
RQ06_0907	9.2.2	If identification data is not present in the command data field of the PUSH command, the ICCID shall be used as identification data in the SYN PDU.			
RQ06_0908	9.2.2	The SYN/ACK PDU sent from the remote entity shall have a null identification data field.			
RQ06_0909	9.2.2	If the link reaches the OPEN state in CAT_TP, the status word of the PUSH command shall be set to '90 00'.			
RQ06_0910	9.2.2	If the CAT_TP OPEN state is not reached, the PUSH command shall be considered as failed and the status word of the PUSH command shall be set to '6F 00'.			
RQ06_0911	9.2.2	The response data in the add coded as follows: • '01': SYN sent failed • '02': SYN/ACK not n • '03': ACK sent failed	eceived.	hment shall be	

RQ number	Clause		Description		
RQ06_1001	9.2.3	By TCP connection opening the PUSH command shall be sent to the Multiplexing application identified by its TAR as defined in ETSI TS 101 220 [6].			
RQ06_1002	9.2.3	The data field of the PUSH command shall consist of the following COMPREHEN TLV data objects:			
		Data Object from ETSI TS 102 223 [4]	M/O/C	Comment	
		Bearer description	М		
		UICC/terminal interface transport level	М	Transport protocol type shall be set to "TCP, UICC in client mode, remote connection"	
		Data destination address	М		
		Network Access Name	0		
		Text String (User login)	0		
		Text String (User password)	С	"Text String (User login)" and "Text String (User password)" shall both be present or both be absent	
5000 4000				String (User password)" shall both b present or both be absent	
RQ06_1003	9.2.3	In case of errors in the command word set to '6A 80'.	data, the P	PUSH command shall be rejected with st	

RQ number	Clause	Description
RQ06_1004		If the TCP connection opening was successful, the status word of the PUSH command shall be set to '90 00'.
RQ06_1005		If the TCP connection opening failed, the status word of the PUSH command shall be set to '6F 00'.

RQ number	Clause		Description	
RQ06_1101	9.2.4	Sending of Identification Packet, the data field of the PUSH command may con following COMPREHENSION-TLV data objects:		consist of the
		Description	Format from ETSI TS 102 223 [4]	M/O/C
		Identification data	Channel data	0
RQ06_1102	9.2.4	The identification data object present in the command data field of the PUSH command shall be used as identification data in the identification packet sent from the UICC.		
RQ06_1103	9.2.4		If the identification data object present in the command data field of the PUSH command is of zero length, the length of the identification data in the identification packet shall also be zero	
RQ06_1104	9.2.4	If identification data is not present in the command data field of the PUSH command, the ICCID shall be used as identification data string in the identification packet.		
RQ06_1105	9.2.4	If the identification packet was sent successfully, the status word of the PUSH command shall be set to '90 00'.		
RQ06_1106	9.2.4	If sending of the identification pac be set to '6F 00'.	ket failed, the status word of the PUSH co	mmand shall

RQ number	Clause	Description
RQ06_1201		The BIP channel shall be closed using the CLOSE CHANNEL proactive command specified in ETSI TS 102 223 [4] once the only or last link using the channel has been closed.

## 5.7 Confidential application management

Reference: ETSI TS 102 226 [1], clause 10.

RQ number	Clause	Description
RQ07_0201		If confidential loading of applications is supported, it shall be implemented as specified in the UICC Configuration [16] for the LOAD command using tag 'D4' for encrypted load files, for the key used for deciphering the load file, and for the Ciphered Load File Data Block privilege.

RQ number	Clause	Description			
RQ07_0301	10.2	If an application provider wants to communicate confidentially with his security domain or an application in this security domain, and his security domain has no OTA capability, encapsulation of secured APDUs in secured packets shall be implemented as specified in RQ07_0302 to RQ07_0308.			
RQ07_0302	10.2	The command string shall use the Expanded Remote Application data format.			
RQ07_0303	10.2	The command string shall be secured using SCP02 with implementation option "i" = '55' according to GlobalPlatform Card Specification [5], i.e. the APDUs to be protected shall be included in a GlobalPlatform secure channel session starting with INITIALIZE UPDATE and EXTERNAL AUTHENTICATE, using the GlobalPlatform secure channel keys of a security domain that has no OTA capabilities.			
RQ07_0304	10.2	If a script does not contain chaining information, the SCP02 secure channel session shall be terminated at the end of the command string.			
RQ07_0305	10.2	<ul> <li>If a script contains the chaining information "first script" or "subsequent script(s) will follow", the SCP02 secure channel session shall continue with the next script until the last script, unless one of the following conditions, which shall terminate the secure channel session, applies: <ul> <li>a new first script or a script without chaining information is received but no last script of the previous secure channel session has been received;</li> <li>card reset.</li> </ul> </li> </ul>			

RQ number	Clause	Description
RQ07_0306	10.2	The TAR of the command string shall represent the security domain that processes the SCP02 security or an application associated to this security domain. In the latter case, the GlobalPlatform API for the secure channel services, which is specified in Java Card API and Export File for Card Specification v2.2.1 (org.globalplatform) or Java Card <sup>™</sup> , shall be available for the application.
RQ07_0307	10.2	The security domain that processes the SCP02 security shall be part of a hierarchy of security domains, where at least one ancestor has OTA capabilities.
RQ07_0308	10.2 The command string shall be contained in a secure packet that is unwrapped by the closest ascendant security domain with OTA capabilities as specified in UICC Configuration [16].	
RQ07_0309	10.2	The support of the API related to Card Specification Version 2.2, Amendment A [18] is optional.
NOTE: Dev	elopment of tes	t cases for RQ07_0309 is out of scope for the present document.

RQ number	Clause	Description
RQ07_0401	10.3	If confidential setup of security domains is supported, it shall be implemented as: Scenario #2.B (Push Model) as specified in the UICC Configuration [16] shall be supported.
RQ07_0402	10.3	If confidential setup of security domains is supported, it shall be implemented as: Scenario #1 (Pull Model) using the public key scheme as specified in the UICC Configuration [16] may be supported.
RQ07_0403	10.3	If confidential setup of security domains is supported, it shall be implemented as: Scenario #3 using ECKA-EG as specified in scenario #3 in Amendment E [24] may be supported.

RQ number	Clause	Description
RQ07_0501		The mechanism specified in the UICC Configuration [16] to personalize their associated applications, using INSTALL [for personalization] and STORE DATA, shall be supported by all security domains.

## 6 Test Cases

## 6.1 Overview of remote management

Test cases verifying the requirements from this clause are defined under clauses 6.2.1, 6.4.1 and 6.5.3 of the present document.

## 6.2 Remote APDU format

## 6.2.1 Compact Remote Application data format

Test cases verifying the requirements from this clause are defined under clause 6.4.1 of the present document.

## 6.2.2 Expanded Remote Application data format

- 6.2.2.1 Test case 1: A command session with C-APDU TLV Structure with definite length coding
- 6.2.2.1.1 Initial Conditions
  - None.

### 6.2.2.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data coded as: [Expanded Remote command structure]	Secured Response Data is returned: 'AB 07	RQ01_0001 RQ01_0002
	to the Exercising RFM application, which contains:	80 01 02	RQ01_0003
	- SELECT: MF - SELECT: DFTEST	23 02 90 00'	RQ01_0005
	TLV Structure: C-APDU TLV		RQ02_0301
	Definite length coding		RQ02_0302
			RQ02_0303 RQ02_0401
			RQ02_0801
			RQ02_0801 a
			a RQ02_0803
			RQ02_0805
			RQ02_0806 RQ02_0807
			RQ04_0101 RQ04_0102
2	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0001
	coded as: [Expanded Remote command structure]	'AB 7F	RQ01_0002
	to the Exercising RFM application, which contains: - SELECT: MF	80 01 04 23 LEN [Data 90 00]' where the	RQ01_0003 RQ01_0005
	- SELECT: DFTEST	Data should be the content of	D000 0004
	<ul> <li>SELECT: EF<sub>TARU</sub></li> <li>READ BINARY coded with Le='00'</li> </ul>	EF <sub>TARU</sub>	RQ02_0301 RQ02_0302
	TLV Structure: C-APDU TLV		RQ02_0303
	Definite length coding		RQ02_0401 RQ02_0402
			RQ02_0402
			RQ02_0801
			a RQ02_0803
			RQ02_0805
			RQ02_0806 RQ02_0807
			RQ04_0101 RQ04_0102
3	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0001
	coded as: [Expanded Remote command structure] to the Exercising RFM application, which contains:	'AB 07 80 01 04	RQ01_0002 RQ01_0003
	- SELECT: MF	23 02 90 00'	RQ01_0005
	- SELECT: DFTEST		D000.0004
	<ul> <li>SELECT: EFTARU</li> <li>UPDATE BINARY (empty Le field)</li> </ul>		RQ02_0301 RQ02_0302
	TLV Structure: C-APDU TLV		RQ02_0303
	Definite length coding		RQ02_0401 RQ02_0405
			RQ02_0801
			RQ02_0801
			a RQ02_0803
			RQ02_0805
			RQ02_0806 RQ02_0807
			RQ04_0101
L			RQ04_0102

# 6.2.2.2 Test case 2: A command session containing multiple commands with C-APDU TLV Structure with definite length coding - Bad Format

- 6.2.2.2.1 Initial Conditions
  - None.

### 6.2.2.2.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0001
	coded as: [Expanded Remote command structure]	'AB 06	RQ01_0002
	to the Exercising RFM application, which contains:	80 01 04	RQ01_0003
	- SELECT: MF	90 01 01'	RQ01_0005
	- SELECT: DFTEST		<b>DOOOOOOOOOOOOO</b>
	- SELECT: EFTARU		RQ02_0301
	<ul> <li>READ BINARY with wrong C-APDU Tag coded as: '23 05 00 B0 00 00 00'</li> </ul>		RQ02_0302 RQ02_0303
	TLV Structure: C-APDU TLV		RQ02_0303
	Definite length coding		RQ02_0801
			RQ02_0801
			a
			RQ02_0803
			RQ02_0805
			RQ02_0806
			RQ02_0807
			RQ02_0809
			RQ02_0810
			RQ02_0811 RQ02_0812
			NQU2_0012
			RQ04_0101
			RQ04_0102
2	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0001
	coded as: [Expanded Remote command structure]	'AB 06	RQ01_0002
	to the Exercising RFM application, which contains:	80 01 04	RQ01_0003
	- SELECT: MF	90 01 02'	RQ01_0005
	- SELECT: DFTEST		D000 0004
	<ul> <li>SELECT: EFTARU</li> <li>READ BINARY with wrong C-APDU length</li> </ul>		RQ02_0301
	coded as:'22 0F 00 B0 00 00 00'		RQ02_0302 RQ02_0303
	TLV Structure: C-APDU TLV		RQ02_0303
	Definite length coding		RQ02_0801
			RQ02_0801
			a
			RQ02_0803
			RQ02_0805
			RQ02_0806
			RQ02_0807
			RQ02_0809
			RQ02_0810
			RQ02_0811 RQ02_0812
			RQ04_0101
			RQ04_0102

Step	Description	Expected Result	RQ
3	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0001
	coded as: [Expanded Remote command structure]	'AB 06	RQ01_0002
	to the Exercising RFM application, which contains:	80 01 04	RQ01_0003
	- SELECT: MF	90 01 03'	RQ01_0005
	- SELECT: DFTEST		
	- SELECT: EFTARU		RQ02_0301
	<ul> <li>READ BINARY with no length in C-APDU</li> </ul>		RQ02_0302
	structure coded as: '22 00 B0 00 00 00'		RQ02_0303
	TLV Structure: C-APDU TLV		RQ02_0401
	Definite length coding		RQ02_0801
			RQ02_0801
			а
			RQ02_0803
			RQ02_0805
			RQ02_0806
			RQ02_0807
			RQ02_0809
			RQ02_0810
			RQ02_0811
			RQ02_0812
			5004 0404
			RQ04_0101
			RQ04_0102

- 6.2.2.3 Test case 3: A command session with C-APDU TLV Structure with indefinite length coding
- 6.2.2.3.1 Initial Conditions
  - None.

## 6.2.2.3.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0001
	coded as: [Expanded Remote command structure]	'AF 80	RQ01_0002
	to the Exercising RFM application, which contains:	23 02 90 00	RQ01_0003
	- SELECT: MF	23 02 90 00	RQ01_0005
	- SELECT: DFTEST	00 00'	
	TLV Structure: C-APDU TLV		RQ02_0301
	Indefinite length coding		а
			RQ02_0302
			RQ02_0303
			RQ02_0401
			RQ02_0802
			RQ02_0802
			а
			RQ02_0804
			RQ04_0101
			RQ04_0102

Step	Description	Expected Result	RQ
2	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TARU</sub> - UPDATE BINARY (empty Le field) TLV Structure: C-APDU TLV Indefinite length coding	Secured Response Data is returned: 'AF 80 23 02 90 00 23 02 90 00 23 02 90 00 23 02 90 00 00 00'	RQ01_0002 RQ01_0001 RQ01_0003 RQ02_0301 a RQ02_0302 RQ02_0303 RQ02_0401 RQ02_0402 RQ02_0802 a RQ02_0802 a RQ02_0804 RQ02_0804
3	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TARU</sub> - READ BINARY coded with Le field set to '00' TLV Structure: C-APDU TLV Indefinite length coding	Secured Response Data is returned: 'AF 80 23 02 90 00 23 02 90 00 23 02 90 00 23 LEN [Data 90 00] 00 00' where the Data should be the content of EF <sub>TARU</sub>	RQ04_0102           RQ01_0002           RQ01_0003           RQ01_0005           RQ02_0301           a           RQ02_0302           RQ02_0303           RQ02_0401           RQ02_0802           RQ02_0804           RQ04_0101           RQ04_0102

# 6.2.2.4 Test case 4: A command session with C-APDU TLV Structure with indefinite length coding - Bad Format

- 6.2.2.4.1 Initial Conditions
  - None.

#### 6.2.2.4.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0001
	coded as: [Expanded Remote command structure]	'AF 80	RQ01_0002
	to the Exercising RFM application, which contains:	23 02 90 00	RQ01_0003
	- SELECT: MF	23 02 90 00	RQ01_0005
	- SELECT: DFTEST	23 02 90 00	
	- SELECT: EFTARU	90 01 01	RQ02_0301
	<ul> <li>READ BINARY with wrong C-APDU coded</li> </ul>	00 00'	а
	as ' 23 05 00 B0 00 00 00'		RQ02_0302
	TLV Structure: C-APDU TLV		RQ02_0303
	Indefinite length coding		RQ02_0401,
			RQ02_0802
			RQ02_0802
			а
			RQ02_0804
			RQ02_0806
			RQ02_0807
			RQ02_0809
			RQ02_0811

Step	Description	Expected Result	RQ
	•	•	RQ02_0812
			RQ04_0101
			RQ04_0102
2	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DFTEST - SELECT: EFTARU - READ BINARY with wrong C-APDU length coded as: 22 0F 00 B0 00 00 00' TLV Structure: C-APDU TLV Indefinite length coding	Secured Response Data is returned: 'AF 80 23 02 90 00 23 02 90 00 90 01 02 00 00'	RQ01_0001 RQ01_0002 RQ01_0003 RQ01_0005 RQ02_0301 a RQ02_0401 RQ02_0802 RQ02_0802 a RQ02_0804 RQ02_0806 RQ02_0807 RQ02_0807 RQ02_0809 RQ02_0811 RQ02_0812
3	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TARU</sub> - READ BINARY with no length in C-APDU structure as:'22 00 B0 00 00 00' TLV Structure: C-APDU TLV Indefinite length coding	Secured Response Data is returned: 'AF 80 23 02 90 00 23 02 90 00 23 02 90 00 90 01 03 00 00'	RQ04_0101 RQ04_0102 RQ01_0001 RQ01_0002 RQ01_0003 RQ01_0005 RQ02_0301 a RQ02_0401 RQ02_0802 RQ02_0802 a RQ02_0804 RQ02_0806 RQ02_0807 RQ02_0807 RQ02_0811 RQ02_0812
			RQ04_0101 RQ04_0102

## 6.2.2.5 Test case 5: A command session with Immediate Action TLV Structure with definite length coding - Normal Format

#### 6.2.2.5.1 Initial Conditions

- On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.
- Test application with AID30, AID31 and AID32 have been successfully installed.

### 6.2.2.5.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data	On the UICC-Terminal interface:	RQ01_0001
	coded as: [Expanded Remote command structure]	The proactive session is performed	RQ01_0002
	to the Test application with AID30, which consist of	successfully for DISPLAY TEXT.	RQ01_0003
	proactive command:	-	RQ01_0005

Step	Description	Expected Result	RQ
	- DISPLAY TEXT TLV Structure: Immediate Action TLV using normal format Definite length coding		RQ02_0301 RQ02_0302 RQ02_0304 RQ02_0501 RQ02_0504 RQ02_0509 RQ04_0101
2	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Test application with AID31, which consist of proactive command: - PLAY TONE TLV Structure: Immediate Action TLV using normal format Definite length coding	On the UICC-Terminal interface: The proactive session is performed successfully for PLAY TONE.	RQ04_0102 RQ01_0001 RQ01_0002 RQ01_0003 RQ01_0005 RQ02_0301 RQ02_0302 RQ02_0304 RQ02_0501 RQ02_0509 RQ04_0101 RQ04_0101
3	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Test application with AID32, which consist of proactive command: - REFRESH TLV Structure: Immediate Action TLV using normal format Definite length coding	On the UICC-Terminal interface: The proactive session is performed successfully for REFRESH.	RQ04_0102           RQ01_0001           RQ01_0002           RQ01_0003           RQ02_0301           RQ02_0302           RQ02_0304           RQ02_0501           RQ02_0501           RQ02_0504           RQ02_0509           RQ04_0101           RQ04_0102

# 6.2.2.6 Test case 6: A command session with Immediate Action TLV Structure with definite length coding - Referenced Format

#### 6.2.2.6.1 Initial Conditions

- On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure on the UICC/terminal interface.
- Test application with AID33 has been successfully installed.

### 6.2.2.6.2 Test Procedure

Step	Description	Expected Result	RQ
	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Test application with AID33, consist of 2 Command TLV having the following TLV Structure in Definite length coding: 1 <sup>st</sup> CMD: Immediate Action TLV - Referenced format indicating proactive session ('81') in the first command 2 <sup>nd</sup> CMD: C-APDU TLV consist of DISPLAY TEXT	On the UICC-Terminal interface: The proactive session is performed successfully for DISPLAY TEXT.	RQ02_0301 RQ02_0302 RQ02_0304 RQ02_0502 RQ02_0509

Step	Description	Expected Result	RQ
2	Send Command with Secured Data	Secure Response Data is returned to the	RQ02_0301
	coded as: [Expanded Remote command structure]	sending entity, containing	RQ02_0302
	to the Test application with AID33, consist of 3	'AB 07	RQ02_0304
	Command TLV having the following TLV Structure	80 01 01	RQ02_0502
	in Definite length coding:	23 02 90 00'	RQ02_0503
	1 <sup>st</sup> CMD: Immediate Action		RQ02_0504
	<ul> <li>Referenced format TLV indicating early</li> </ul>	On the UICC-Terminal interface:	RQ02_0509
	response ('82')	The proactive session is performed	RQ02_0508
	2 <sup>nd</sup> CMD: C-APDU TLV consist of DISPLAY	successfully for DISPLAY TEXT.	а
	TEXT		RQ02_0508
	3 <sup>rd</sup> CMD: Immediate Action	The proactive session is performed	b
	- Referenced format TLV then to the second	successfully for REFRESH command.	RQ02_0508
	record in EF <sub>RMA</sub> ('02') refers to REFRESH		с
			RQ02_0801
3	Send Command with Secured Data	On the UICC-Terminal interface:	RQ02_0301
	coded as: [Expanded Remote command structure]	The proactive session is performed	RQ02_0302
	to the Test application with AID33, which consist of	successfully for DISPLAY TEXT.	RQ02_0304
	2 Command TLV having the following TLV Structure		RQ02_0502
	in Definite length coding:	The proactive session is performed	RQ02_0503
	1 <sup>st</sup> CMD: Immediate Action	successfully for REFRESH command.	RQ02_0504
	<ul> <li>Referenced format to the first record in</li> </ul>		RQ02_0509
	EF <sub>RMA</sub> ('01') DISPLAY TEXT		
	2 <sup>nd</sup> CMD: Immediate Action		
	<ul> <li>Referenced format TLV to the second</li> </ul>		
	record in EF <sub>RMA</sub> ('02') REFRESH		
4	Send Command with Secured Data	On the UICC-Terminal interface:	RQ02_0301
	coded as: [Expanded Remote command structure]	The proactive session is performed	RQ02_0302
	to the Test application with AID33, consist of 3	successfully for DISPLAY TEXT.	RQ02_0304
	Command TLV having the following TLV Structure		RQ02_0502
	in Definite length coding:	Secured Response Data is returned:	RQ02_0504
	1 <sup>st</sup> CMD: Immediate Action TLV	'AB 07	RQ02_0509
	<ul> <li>Referenced format indicating proactive</li> </ul>	80 01 03	
	session ('81')	23 02 90 00'	
	2 <sup>nd</sup> CMD: C-APDU TLV consist of DISPLAY		
	TEXT		
	3 <sup>rd</sup> CMD: C-APDU TLV		
	- SELECT: DFTEST		

# 6.2.2.7 Test case 7: A command session with Immediate Action TLV Structure with definite length coding - Immediate Action Error

#### 6.2.2.7.1 Initial Conditions

- On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.
- A proactive session is ongoing triggered be the application with AID37.

### 6.2.2.7.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data coded as:	Secured Response Data is returned:	RQ02_0301
	[Expanded Remote command structure] which	'AB 06	RQ02_0302
	consist of 2 Command TLV having the following	80 01 01	RQ02_0304
	TLV Structure:	81 01 01'	RQ02_0501
	Immediate Action TLV using referenced format		RQ02_0509
	indicating proactive session ('81') followed by a C-	On the UICC-Terminal interface:	RQ02_0812
	APDU TLV.	The proactive session is not performed.	а
	Definite length coding.		RQ02_0813
			RQ02_0814

NOTE: The test can be applied only in case of SMS protocol.

## 6.2.2.8 Test case 8: A command session with Immediate Action TLV Structure with indefinite length coding - Normal Format

- 6.2.2.8.1 Initial Conditions
  - On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.
  - Test application with AID30, AID31 and AID32 have been successfully installed.

#### 6.2.2.8.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Test application with AID30, which consist of proactive command: - DISPLAY TEXT TLV Structure: Immediate Action TLV using normal format. Indefinite length coding.	On the UICC-Terminal interface: The proactive session is performed successfully for DISPLAY TEXT.	RQ02_0301 a RQ02_0302 RQ02_0304 RQ02_0501 RQ02_0504 RQ02_0509
2	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Test application with AID31, which consist of proactive command: - PLAY TONE TLV Structure: Immediate Action TLV using normal format. Indefinite length coding.	On the UICC-Terminal interface: The proactive session is performed successfully for PLAY TONE.	RQ02_0301 a RQ02_0302 RQ02_0304 RQ02_0501 RQ02_0504 RQ02_0509
3	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Test application with AID32, which consist of proactive command: - REFRESH TLV Structure: Immediate Action TLV using normal format. Indefinite length coding.	On the UICC-Terminal interface: The proactive session is performed successfully for REFRESH.	RQ01_0003 RQ02_0301 a RQ02_0302 RQ02_0304 RQ02_0501 RQ02_0504 RQ02_0509

## 6.2.2.9 Test case 9: A command session with Immediate Action TLV Structure with indefinite length coding - Referenced Format

### 6.2.2.9.1 Initial Conditions

- On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.
- Test application with AID33 has been successfully installed.

#### 6.2.2.9.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data		RQ02_0301
	coded as: [Expanded Remote command structure]	The proactive session is performed	а
	to the Test application with AID33, which consist of	successfully for DISPLAY TEXT.	RQ02_0302
	one Command TLV having the following TLV		RQ02_0304
	Structure:		RQ02_0502
	Immediate Action TLV using referenced format		RQ02_0503
	indicating proactive session ('81') followed by		RQ02_0509
	DISPLAY TEXT		
	Indefinite length coding.		

Step	Description	Expected Result	RQ
2	Send Command with Secured Data	Secured Response Data is returned:	RQ02_0301
	coded as: [Expanded Remote command structure]	'AF 80	а
	to the Test application with AID33, consist of 4	81 02 90 00	RQ02_0302
	Command TLV having the following TLV Structure	00 00'	RQ02_0304
	in Indefinite length coding:		RQ02_0502
	1 <sup>st</sup> CMD: Immediate Action TLV:	On the UICC-Terminal interface:	RQ02_0503
	<ul> <li>referenced format first record in EF<sub>RMA</sub></li> </ul>	The proactive session is performed	RQ02_0509
	('03'), then	successfully for the following proactive	RQ02_0802
	2 <sup>nd</sup> CMD: Immediate Action TLV:	commands in the following order:	RQ02_0508
	<ul> <li>referenced format indicating early</li> </ul>	- PLAY TONE	а
	response ('82')	<ul> <li>DISPLAY TEXT and</li> </ul>	RQ02_0508
	3 <sup>rd</sup> CMD: C-APDU TLV consist of DISPLAY	- REFRESH.	b
	TEXT		RQ02_0508
	4 <sup>th</sup> CMD: Immediate Action TLV:		с
	<ul> <li>referenced format to the second record in</li> </ul>		
	EF <sub>RMA</sub> ('02')		

## 6.2.2.10 Test case 10: A command session with Immediate Action TLV Structure with indefinite length coding - Immediate Action Error

#### 6.2.2.10.1 Initial Conditions

- On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.
- A proactive session is ongoing triggered be the application with AID37.

### 6.2.2.10.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data	Secured Response Data is returned:	RQ02_0301
	coded as: [Expanded Remote command structure]	'AF 80	а
	which consist of:	81 01 01	RQ02_0302
	TLV Structure: Immediate Action TLV using	00 00'	RQ02_0304
	referenced format indicating proactive session ('81')		RQ02_0501
	in the first command TLV followed by C-APDU TLV	On the UICC-Terminal interface:	RQ02_0509
	Indefinite length coding.	The proactive session is not performed.	RQ02_0812
			b
			RQ02_0813
			RQ02_0814

NOTE: The test can be applied only in case of SMS protocol.

## 6.2.2.11 Test case 11: A command session with Error Action TLV Structure with definite length coding - normal format

#### 6.2.2.11.1 Initial Conditions

- On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.
- Test application with AID1, AID35 has been successfully installed.

### 6.2.2.11.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data coded as: [Expanded Remote command structure] to test application with AID35, which consist of the following Command TLVs: 1 <sup>st</sup> CMD: Error Action TLV using normal format consist of: - DISPLAY TEXT 2nd CMD: C-APDU TLV consist of: - SELECT: DF <sub>TEST</sub> 3 <sup>rd</sup> CMD: C-APDU TLV consist of: - SELECT: EF <sub>TPRU</sub> 4 <sup>th</sup> CMD: C-APDU TLV consist of: - READ BINARY Definite length coding.	On the UICC-Terminal interface: The proactive session is performed successfully for DISPLAY TEXT. Secured Response Data is returned: 'AB LEN 80 01 04 23 LENx [Data SW1 SW2]'	RQ02_0301 RQ02_0302 RQ02_0305 RQ02_0601 RQ02_0605 RQ02_0606
2	Send Command with Secured Data coded as: [Expanded Remote command structure] to Test application with AID1, which consist of the following Command TLVs: 1 <sup>st</sup> CMD: Error Action TLV with no action 2 <sup>nd</sup> CMD: C-APDU TLV consists of: - SELECT: DF <sub>TEST</sub> as C-APDU TLV 3 <sup>rd</sup> CMD: C-APDU TLV consists of: - SELECT: EF <sub>TPRU</sub> as C-APDU TLV 4 <sup>th</sup> CMD: C-APDU TLV consist of: - READ BINARY as C-APDU TLV Definite length coding.	Secured Response Data is returned: 'AB 07 80 01 04 23 02 69 82'	RQ02_0301 RQ02_0302 RQ02_0305 RQ02_0603 RQ02_0607

## 6.2.2.12 Test case 12: A command session with Error Action TLV Structure with definite length coding - Referenced format

### 6.2.2.12.1 Initial Conditions

- On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.
- Test application with AID36 has been successfully installed.

### 6.2.2.12.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data	On the UICC-Terminal interface:	RQ02_0301
	coded as: [Expanded Remote command structure]	The proactive session is performed	RQ02_0302
	to Test application with AID 36, which consist of the	successfully for PLAY TONE.	RQ02_0305
	following Commands TLV:		RQ02_0602
	1 <sup>st</sup> CMD: Error Action TLV using referenced	Secured Response Data is returned:	RQ02_0604
	format to the third record in EFRMA ('03') to:	'AB LEN	RQ02_0605
	- PLAY TONE	80 01 04	RQ02_0606
	2 <sup>nd</sup> CMD: C-APDU TLV consist of:	23 LENx [Data SW1 SW2]'	
	- SELECT: DFTEST		
	3 <sup>rd</sup> CMD: C-APDU TLV consist of:		
	- SELECT: EFTPRU		
	4 <sup>th</sup> CMD: C-APDU TLV consist of:		
	<ul> <li>READ BINARY as C-APDU TLV</li> </ul>		
	Definite length coding.		

## 6.2.2.13 Test case 13: A command session with Error Action TLV Structure with indefinite length coding - Normal format

#### 6.2.2.13.1 Initial Conditions

- On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.
- Test application with AID35, AID36 and AID1 has been successfully installed.

#### 6.2.2.13.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data coded as: [Expanded Remote	Secured Response Data is returned:	RQ02_0301
	command structure] to the Test application with	'AF 80	а
	AID35, which consist of the following Commands	23 02 90 00	RQ02_0302
	TLV:	23 02 90 00	RQ02_0305
	<ul> <li>1<sup>st</sup> CMD: Error Action TLV using normal</li> </ul>	23 LEN [Data SW1 SW2]	RQ02_0601
	format consist of DISPLAY TEXT	23 02 69 85'	RQ02_0605
	<ul> <li>2<sup>nd</sup> CMD: C-APDU TLV consist of</li> </ul>		RQ02_0606
	SELECT: DFTEST	On the UICC-terminal interface:	RQ02_0802
	- 3 <sup>rd</sup> CMD: C-APDU TLV consist of SELECT:	The proactive session is performed	RQ02_0802
	EFTPRU	successfully for DISPLAY TEXT.	а
	- 4 <sup>th</sup> CMD: C-APDU TLV consist of READ		RQ02_0804
	BINARY		
	Indefinite length coding.		
2	Send Secured Data	Secured Response Data is returned:	RQ02_0301
	coded as: [Expanded Remote command structure]	'AF 80	а
	to the Test application with AID1, which consist of	23 02 90 00	RQ02_0302
	the following Commands TLV:	23 02 90 00	RQ02_0305
	- 1 <sup>st</sup> CMD: Error Action TLV with no action	23 02 69 85'	RQ02_0603
	- 2 <sup>nd</sup> CMD: C-APDU TLV consist of		RQ02_0607
			RQ02_0802
	- 3 <sup>rd</sup> CMD: C-APDU TLV consist of SELECT:		RQ02_0802
			a
	- 4 <sup>th</sup> CMD: C-APDU TLV consist of READ		RQ02_0804
	BINARY as C-APDU TLV		
	Indefinite length coding.		

## 6.2.2.14 Test case 14: A command session with Error Action TLV Structure with indefinite length coding - Referenced format

### 6.2.2.14.1 Initial Conditions

- On the UICC-Terminal interface, prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.
- Test application with AID35, AID36 and AID1 has been successfully installed.

## 6.2.2.14.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data	Secured Response Data is returned:	RQ02_0301
	coded as: [Expanded Remote command structure]	'AF 80	а
	to the Test application with AID36, which consist of	23 02 90 00	RQ02_0302
	the following Commands TLV:	23 02 90 00	RQ02_0305
	1 <sup>st</sup> CMD: Error Action TLV using referenced	23 LEN [Data SW1 SW2]	
	format to the third record in EFRMA ('03') for:	23 02 69 85'	RQ02_0602
	- PLAY TONE		RQ02_0604
	2 <sup>nd</sup> CMD: C-APDU TLV consist of:	On the UICC-terminal interface:	RQ02_0605
	- SELECT: DFTEST	The proactive session is performed	RQ02_0606
	3 <sup>rd</sup> CMD: C-APDU TLV consist of:	successfully for PLAY TONE.	
	- SELECT: EFTPRU		RQ02_0802
	4 <sup>th</sup> CMD: C-APDU TLV consist of:		RQ02_0802
	- READ BINARY		а
	Indefinite length coding.		RQ02_0804

# 6.2.2.15 Test case 15: A command session with Script Chaining TLV Structure with definite length coding

### 6.2.2.15.1 Initial Conditions

• None.

### 6.2.2.15.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data	'AB 07	RQ02_0301
	coded as: [Expanded Remote command structure]	80 01 05	RQ02_0302
	to the Exercising RFM application, which contains:	23 02 90 00'	RQ02_0306
	<ul> <li>Script Chaining TLV with the Script</li> </ul>		RQ02_0701
	Chaining Value '01' as the first command		RQ02_0702
	TLV		RQ02_0704
	<ul> <li>SELECT: MF as C-APDU TLV</li> </ul>		
	<ul> <li>SELECT: DFTEST as C-APDU TLV</li> </ul>		RQ04_0103
	<ul> <li>SELECT: EFTARU as C-APDU TLV</li> </ul>		RQ04_0104
	<ul> <li>UPDATE BINARY with data '01 01 01'</li> </ul>		
	(17 bytes) as C-APDU TLV		
	Definite length coding.		
2	Send Secured Data	'AB 07	RQ02_0301
	coded as: [Expanded Remote command structure]	80 01 02	RQ02_0302
	to the Exercising RFM application, which contains:	23 02 90 00'	RQ02_0306
	<ul> <li>Script Chaining TLV with the Script</li> </ul>		RQ02_0701
	Chaining Value '02' as the first command		RQ02_0702
	TLV		RQ02_0704
	- UPDATE BINARY with data '01 01 01' (100		
	bytes) as C-APDU TLV		RQ04_0103
	Definite length coding.		RQ04_0104
3	Send Secured Data	'AB 81 83	RQ02_0301
	coded as: [Expanded Remote command structure]	80 01 03	RQ02_0302
	to the Exercising RFM application, which contains:	23 LEN [Data 90 00]' where the	RQ02_0306
	<ul> <li>Script Chaining TLV with the Script</li> </ul>	Data should be the content of	RQ02_0701
	Chaining Value '03' as the first command	EFtaru.	RQ02_0702
	TLV		RQ02_0704
	<ul> <li>UPDATE BINARY with data '01 01 01' as</li> </ul>		
	C-APDU TLV		RQ04_0103
	<ul> <li>READ BINARY as C-APDU TLV</li> </ul>		RQ04_0104
	Definite length coding.		

- 6.2.2.16 Test case 16: A command session with Script Chaining TLV Structure with definite length coding (Script Chaining Error).
- 6.2.2.16.1 Initial Conditions
  - None.

#### 6.2.2.16.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data	'AB 06	RQ02_0301,
	coded as: [Expanded Remote command structure]	80 01 01	RQ02_0302,
	to the Exercising RFM application, which contains:	83 01 01'	RQ02_0306,
	<ul> <li>Script Chaining TLV with the Script</li> </ul>		
	Chaining Value '02' as the first command		RQ02_0817a
	TLV		
	<ul> <li>SELECT: MF as C-APDU TLV</li> </ul>		
	<ul> <li>SELECT: DFTEST as C-APDU TLV</li> </ul>		
	<ul> <li>SELECT: EFTARU as C-APDU TLV</li> </ul>		
	<ul> <li>UPDATE BINARY with data '01 01 01' as</li> </ul>		
	C-APDU TLV		
	Definite length coding.		

# 6.2.2.17 Test case 17: A command session with Script Chaining TLV Structure with indefinite length coding

- 6.2.2.17.1 Initial Conditions
  - None.

## 6.2.2.17.2 Test Procedure

Step	Description	Expected Result	RQ
1	<ul> <li>Send Secured Data</li> <li>coded as: [Expanded Remote command structure]</li> <li>to the Exercising RFM application, which contains: <ul> <li>Script Chaining TLV with the Script</li> <li>Chaining Value '01' as the first command TLV</li> <li>SELECT: MF as C-APDU TLV</li> <li>SELECT: DFTEST as C-APDU TLV</li> <li>SELECT: EFTARU as C-APDU TLV</li> <li>UPDATE BINARY with data '01 01 01' (17 Bytes) as C-APDU TLV</li> </ul> </li> </ul>	'AF 80 23 02 90 00 23 02 90 00 23 02 90 00 23 02 90 00 00 00'	RQ02_0301 a RQ02_0302 RQ02_0306 RQ04_0103 RQ04_0104
2	Send Secured Data coded as: [Expanded Remote command structure] to the Exercising RFM application, which contains: - Script Chaining TLV with the Script Chaining Value '02' as the first command TLV - UPDATE BINARY with data '01 01 01' (100 bytes) as C-APDU TLV Indefinite length coding.	'AF 80 23 02 90 00 00 00'	RQ02_0301 a RQ02_0302 RQ02_0306 RQ04_0103 RQ04_0104
3	Send Secured Data coded as: [Expanded Remote command structure] to the Exercising RFM application, which contains:	'AF 80 23 02 90 00 23 LEN [Data 90 00] 00 00' where the Data should be the content of EF <sub>TARU</sub>	RQ02_0301 a RQ02_0302 RQ02_0306 RQ04_0103 RQ04_0104

Step	Description	Expected Result	RQ
	<ul> <li>Script Chaining TLV with the Script Chaining Value '03' as the first command TLV</li> <li>UPDATE BINARY with data '01 01 01' as C-APDU TLV</li> <li>READ BINARY as C-APDU TLV</li> <li>Indefinite length coding.</li> </ul>		

## 6.2.2.18 Test case 18: A command session with Script Chaining TLV Structure with indefinite length coding (Script Chaining Error)

- 6.2.2.18.1 Initial Conditions
  - None.

#### 6.2.2.18.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data	'AF 80	RQ02_0301
	coded as: [Expanded Remote command structure]	83 01 01 00 00'	а
	to the Exercising RFM application, which contains:		RQ02_0302
	<ul> <li>Script Chaining TLV with the Script</li> </ul>		RQ02_0306
	Chaining Value '02' as the first command		
	TLV		RQ02_0817
	<ul> <li>SELECT: MF as C-APDU TLV</li> </ul>		b
	<ul> <li>SELECT: DFTEST as C-APDU TLV</li> </ul>		RQ02_0818
	<ul> <li>SELECT: EFTARU as C-APDU TLV</li> </ul>		RQ02_0819
	<ul> <li>UPDATE BINARY with data '01 01 01' as</li> </ul>		
	C-APDU TLV		
	Indefinite length coding.		

## 6.3 Security parameters assigned to applications

## 6.3.1 Minimum Security Level (MSL)

Test cases verifying the requirements from this clause are defined under clause 6.5.3 of the present document.

## 6.3.2 Access domain

Test cases verifying the requirements from this clause are defined under clause 6.5.3 of the present document.

## 6.4 Remote File Management (RFM)

- 6.4.1 UICC Shared File System Remote File Management
- 6.4.1.1 Test case 1: A command session with a single SELECT command. Check access to the file tree
- 6.4.1.1.1 Initial Conditions
  - None.

#### 6.4.1.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: EF <sub>DIR</sub> - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '02 90 00' and FCP data containing TLV '83 02 2F 00'	RQ04_0301 RQ04_0302 RQ04_0304 RQ01_0001 RQ01_0002 RQ01_0003
		Deserves with Occurred Data is	RQ02_0101 RQ02_0103 RQ02_0104 RQ02_0201
2	Send Command with Secured Data to the UICC Shared File System Remote File Management application which contains:	Response with Secured Data is returned, last or only additional data response shall be '01 90 00'	RQ04_0301 RQ04_0304
	- SELECT: DFTEST		RQ01_0001 RQ01_0002 RQ01_0003
			RQ02_0101 RQ02_0201
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTESTB	Response with Secured Data is returned, last or only additional data response shall be '01 69 85' or other error SW	RQ04_0303 RQ01_0001 RQ01_0002 RQ01_0003
			RQ02_0101 RQ02_0201
4	Send Command with Secured Data to the UICC Shared File System Remote File Management application which contains: - SELECT by DF name: ADF	Response with Secured Data is returned, last or only additional data response shall be '01 69 85' or other error SW	RQ04_0201
5	Send Command with Secured Data to the UICC Shared File System Remote File Management application which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TARU</sub> (see note)	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0201
NOTE:	SELECT command is executed as SELECT by FI	D	

# 6.4.1.2 Test case 2: A command session with multiple commands (SELECT, UPDATE BINARY, READ BINARY).

- 6.4.1.2.1 Initial Conditions
  - None.

### 6.4.1.2.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TARU</sub> - UPDATE BINARY with data '01 01 01'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ01_0001 RQ01_0002 RQ01_0003 RQ01_0005 RQ01_0007 RQ02_0101 RQ02_0201 RQ04_0101 RQ04_0304

Step	Description	Expected Result	RQ
2	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTARU - READ BINARY with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00' and contain all data of EF <sub>TARU</sub> starting with '01 01 01' until the end of file	RQ01_0001 RQ01_0002 RQ01_0003 RQ01_0005 RQ01_0007 RQ02_0101 RQ02_0104 RQ02_0105 RQ02_0201 RQ04_0201 RQ04_0201 RQ04_0203
			RQ04_0304
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - READ BINARY with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be '01 69 86'	RQ01_0001 RQ01_0002 RQ01_0003 RQ01_0005 RQ01_0009
			RQ04_0101

# 6.4.1.3 Test case 3: A command session with multiple commands (SEARCH RECORD, UPDATE RECORD, INCREASE, READ RECORD)

#### 6.4.1.3.1 Initial Conditions

• None.

### 6.4.1.3.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>CY4R4b</sub> - UPDATE RECORD with data '01 01 01 01' with P2 set to PREVIOUS mode	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304
2	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFCY4R4b - SEARCH RECORD with data '01 01 01 01' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '04 90 00' and contain '01' data byte	RQ04_0101 RQ04_0201 RQ04_0203 RQ04_0304
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>CY4R4b</sub> - READ RECORD with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be'03 90 00 ' and contain '01 01 01 01' data bytes	RQ04_0101 RQ04_0201 RQ04_0202 RQ04_0304
4	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>CY4R4b</sub> - INCREASE with data '01 01 01 01' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '04 90 00' and contain '02 02 02 02 01 01 01 01' data bytes	RQ04_0101 RQ04_0201 RQ04_0304

# 6.4.1.4 Test case 4: A command session with multiple commands (SET DATA, RETRIEVE DATA).

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- 6.4.1.4.1 Initial Conditions
  - None.

#### 6.4.1.4.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT by FID: DFTEST - SELECT: EFBER-TLV - SET DATA with '81 02 01 01'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304
2	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT by FID: DF <sub>TEST</sub> - SELECT: EF <sub>BER-TLV</sub> - RETRIEVE DATA with P3/Le = '00'and Tag value '81' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be'04 90 00' and contain '81 02 01 01' data bytes	RQ04_0101 RQ04_0201 RQ04_0204 RQ04_0304

## 6.4.1.5 Test case 5: A command session with multiple commands (ACTIVATE FILE, DEACTIVATE FILE)

- 6.4.1.5.1 Initial Conditions
  - None.

### 6.4.1.5.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTARU - ACTIVATE FILE	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304
2	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTARU - DEACTIVATE FILE	Last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTARU - READ BINARY	Response with Secured Data is returned, last or only additional data response shall be '03 69 85'	RQ01_0005 RQ04_0101 RQ04_0201 RQ04_0304

## 6.4.1.6 Test case 6: A command session with multiple commands (VERIFY PIN, CHANGE PIN)

#### 6.4.1.6.1 Initial Conditions

• None.

### 6.4.1.6.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304
	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTPRU - VERIFY PIN with PIN = '31 31 31 31 FF FF FF FF' - READ BINARY	Response with Secured Data is returned, last or only additional data response shall be '04 90 00', and contain all data of EF <sub>TPRU</sub>	
2	<ul> <li>Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: <ul> <li>SELECT: DFTEST</li> <li>SELECT: EFTUACP</li> <li>CHANGE PIN with data = '31 31 31 31 FF FF FF FF 32 32 32 32 FF FF FF FF'</li> <li>VERIFY PIN with PIN = '32 32 32 32 FF FF FF FF FF'</li> </ul> </li> </ul>	Response with Secured Data is returned, last or only additional data response shall be '04 90 00'	RQ04_0101 RQ04_0201 RQ04_0304

# 6.4.1.7 Test case 7: A command session with multiple commands (DISABLE PIN, ENABLE PIN)

## 6.4.1.7.1 Initial Conditions

• None.

### 6.4.1.7.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - DISABLE PIN with PIN = ' 31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304
2	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTUACP - VERIFY PIN with PIN = '31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 69 83' or any other security error SW	RQ04_0101 RQ04_0201 RQ04_0304
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTUACP - ENABLE PIN with PIN = ' 31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304

Step	Description	Expected Result	RQ
4	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304

## 6.4.1.8 Test case 8: A command session with multiple commands (UNBLOCK PIN)

- 6.4.1.8.1 Initial Conditions
  - None.

### 6.4.1.8.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTUACP - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C2'	RQ04_0101 RQ04_0201 RQ04_0304
2	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTUACP - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C1'	RQ04_0101 RQ04_0201 RQ04_0304
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTUACP - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C0'	RQ04_0101 RQ04_0201 RQ04_0304
4	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C0' or '03 69 83'	RQ04_0101 RQ04_0201 RQ04_0304
5	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - UNBLOCK PIN with Data = '33 33 33 33 FF FF FF FF 34 34 34 34 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304
6	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFTUACP - VERIFY PIN with PIN = '34 34 34 34 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304

# 6.4.1.9 Test case 9: A command session with multiple commands (CREATE FILE, RESIZE FILE, DELETE FILE)

- 6.4.1.9.1 Initial Conditions
  - None.

### 6.4.1.9.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - CREATE FILE: EFXX	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0101 RQ04_0201 RQ04_0304
2	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFXX - READ BINARY	Response with Secured Data is returned, last or only additional data response shall be '03 90 00' and contain all data of EF <sub>XX</sub> starting with 'FF FF FF FF FF' data bytes	RQ04_0101 RQ04_0201 RQ04_0304
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - RESIZE FILE: EFxx - SELECT: EFxx - READ BINARY	Response with Secured Data is returned, last or only additional data response shall be '04 90 00' and contain all data of EF <sub>TARU</sub> starting with 'FF FF FF'	RQ04_0101 RQ04_0201 RQ04_0304
4	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - DELETE FILE: EFXX	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0304
5	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST - SELECT: EFXX	Response with Secured Data is returned, last or only additional data response shall be '02 6A 82'	RQ04_0101 RQ04_0201 RQ04_0304

## 6.4.2 ADF Remote File Management

- 6.4.2.1 Test case 1: A command session with a single SELECT command. Check access to the file tree
- 6.4.2.1.1 Initial Conditions
  - None.

### 6.4.2.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the	Response with Secured Data is	RQ04_0406
	ADF Remote File Management application which	returned, last or only additional data	RQ04_0407
	contains:	response shall be '02 90 00'	RQ04_0409
	- SELECT: DFTESTB		RQ04_0410
	- SELECT: EFTARUB (see note)		
2	Send Command with Secured Data to the	Response with Secured Data is	RQ04_0408
	ADF Remote File Management application, which	returned, last or only additional data	RQ04_0409
	contains:	response shall be '01 90 00'	RQ04_0410
	<ul> <li>SELECT by path from MF: EFTARU</li> </ul>		
NOTE: SELECT command is executed as SELECT by FID.			

# 6.4.2.2 Test case 2: A command session with multiple commands (SELECT, UPDATE BINARY, READ BINARY)

- 6.4.2.2.1 Initial Conditions
  - None.

#### 6.4.2.2.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT: DFTESTB - SELECT: EFTARUB - UPDATE BINARY with data '01 01 01'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0409 RQ04_0410
2	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT: DF <sub>TESTB</sub> - SELECT: EF <sub>TARUB</sub> - READ BINARY with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00' and contain all data of $EF_{TARUB}$ starting with '01 01 01' until the end of file	RQ04_0403 RQ04_0409 RQ04_0410

## 6.4.2.3 Test case 3: A command session with multiple commands (SEARCH RECORD, UPDATE RECORD, INCREASE, READ RECORD)

#### 6.4.2.3.1 Initial Conditions

• None.

## 6.4.2.3.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>CY4R4b</sub> - UPDATE RECORD with data '01 01 01 01' with P2 set to PREVIOUS mode	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0201 RQ04_0409 RQ04_0410
2	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>CY4R4b</sub> - SEARCH RECORD with data '01 01 01 01'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00' and contain '01' data byte	RQ04_0201 RQ04_0409 RQ04_0410
3	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>CY4R4b</sub> - READ RECORD with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be'02 90 00 ' and contain '01 01 01 01' data bytes	RQ04_0201 RQ04_0202 RQ04_0409 RQ04_0410
4	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>CY4R4b</sub> - INCREASE with data '01 01 01 01' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '03 90 00' and contain '02 02 02 02 01 01 01 01' data bytes	RQ04_0409 RQ04_0410

# 6.4.2.4 Test case 4: A command session with multiple commands (SET DATA, RETRIEVE DATA)

- 6.4.2.4.1 Initial Conditions
  - None.

#### 6.4.2.4.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>BER-TLV</sub> - SET DATA with '81 02 01 01'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
2	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>BER-TLV</sub> - RETRIEVE DATA with P3/Le = '00'and Tag value '81' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be'03 90 00' and contain '81 02 01 01' data bytes	RQ04_0101 RQ04_0201 RQ04_0204 RQ04_0409 RQ04_0410

# 6.4.2.5 Test case 5: A command session with multiple commands (ACTIVATE FILE, DEACTIVATE FILE)

#### 6.4.2.5.1 Initial Conditions

• None.

### 6.4.2.5.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the	Response with Secured Data is	RQ04_0101
	ADF Remote File Management application, which	returned, last or only additional data	RQ04_0409
	contains:	response shall be '03 90 00'	RQ04_0410
	- SELECT: DFTESTB		
	- SELECT: EFTARUB		
	- ACTIVATE FILE		
2	Send Command with Secured Data to the	Last or only additional data response	RQ04_0101
	ADF Remote File Management application, which	shall be '03 90 00'	RQ04_0409
	contains:		RQ04_0410
	- SELECT: DFTESTB		
	- SELECT: EF <sub>TARUB</sub>		
	- DEACTIVATE FILE		
3	Send Command with Secured Data to the	Response with Secured Data is	RQ04_0409
	ADF Remote File Management application, which	returned, last or only additional data	RQ04_0410
	contains:	response shall be '03 69 85'	
	- SELECT: DFTESTB		
	- SELECT: EF <sub>TARUB</sub>		
	- READ BINARY		

## 6.4.2.6 Test case 6: A command session with multiple commands (VERIFY PIN, CHANGE PIN)

#### 6.4.2.6.1 Initial Conditions

• None.

### 6.4.2.6.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
2	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TPRU</sub> - VERIFY PIN with PIN = '31 31 31 31 FF FF FF FF' - READ BINARY	Response with Secured Data is returned, last or only additional data response shall be '02 90 00', and contain all data of EF <sub>TPRU</sub>	RQ04_0409 RQ04_0410
3	<ul> <li>Send Command with Secured Data to the ADF Remote File Management application, which contains: <ul> <li>SELECT by path: EFTUACP</li> <li>CHANGE PIN with data = '31 31 31 31 FF FF FF FF 32 32 32 32 FF FF FF FF'</li> <li>VERIFY PIN with PIN = '32 32 32 32 FF FF FF FF</li> </ul> </li> </ul>	Response with Secured Data is returned, last or only additional data response shall be '03 90 00'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410

# 6.4.2.7 Test case 7: A command session with multiple commands (DISABLE PIN, ENABLE PIN)

### 6.4.2.7.1 Initial Conditions

• None.

### 6.4.2.7.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - DISABLE PIN with PIN = '31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 69 83' or any other security error SW	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
3	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - ENABLE PIN with PIN = '31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
4	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '31 31 31 31 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410

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### 6.4.2.8 Test case 8: A command session with multiple commands (UNBLOCK PIN)

- 6.4.2.8.1 Initial Conditions
  - None.

#### 6.4.2.8.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 63 C2'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
2	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 63 C1'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
3	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 63 C0'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
4	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 63 C0' or '03 69 83'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
5	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - UNBLOCK PIN with Data = '33 33 33 33 FF FF FF FF 34 34 34 34 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410
6	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '34 34 34 34 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'	RQ04_0101 RQ04_0201 RQ04_0409 RQ04_0410

# 6.4.2.9 Test case 9: A command session with multiple commands (CREATE FILE, RESIZE FILE, DELETE FILE)

#### 6.4.2.9.1 Initial Conditions

• None.

#### 6.4.2.9.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the	Response with Secured Data is	RQ04_0101
	ADF Remote File Management application, which	returned, last or only additional data	RQ04_0201
	contains:	response shall be '02 90 00'	RQ04_0409
	- SELECT: DFTESTB		
	- CREATE FILE: EFxx		

Step	Description	Expected Result	RQ
2	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT: DFTESTB - SELECT: EFXX. - READ BINARY	Response with Secured Data is returned, last or only additional data response shall be '03 90 00' and contain all data of EFxx starting with 'FF FF FF FF FF' data bytes	RQ04_0101 RQ04_0201 RQ04_0409
3	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT: DF <sub>TESTB</sub> - RESIZE FILE: EF <sub>XX</sub> - SELECT: EF <sub>XX</sub> . - READ BINARY	Response with Secured Data is returned, last or only additional data response shall be '04 90 00' and contain all data of EF <sub>XX</sub> starting with 'FF FF FF' data bytes	RQ04_0101 RQ04_0201 RQ04_0409
4	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT: DF <sub>TESTB</sub> . - DELETE FILE: EF <sub>XX</sub>	Response with Secured Data is returned, last or only additional data response shall be '3 90 00'	RQ04_0101 RQ04_0201 RQ04_0409
5	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT: DFTESTB - SELECT: EFXX	Response with Secured Data is returned, last or only additional data response shall be '02 6A 82'	RQ04_0101 RQ04_0201 RQ04_0409

## 6.4.3 RFM implementation over HTTPS

The content of this clause is FFS.

# 6.5 Remote Application Management (RAM)

6.5.1 DELETE

### 6.5.1.1 Test case 1: DELETE command

### 6.5.1.1.1 Initial Conditions

• Test application with AID1 have been successfully installed.

#### 6.5.1.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the Test Application with AID1 which contains a command: - '00 01 00 00'	Response with Secured Data is returned to the sending entity containing '01 90 00'	RQ01_0002 RQ01_0004 RQ01_0007
			RQ02_0201
2	Send Command with Secured Data to the ISD which contains: - DELETE with AID1 - GET RESPONSE	Response with Secured Data is returned to the sending entity containing '02 90 00' and contain '00' data byte	RQ01_0002 RQ01_0004 RQ01_0007
			RQ05_0109 RQ05_0301 RQ05_0401
3	Send Command with Secured Data to the Test Application with AID1 which contains a command: - '00 01 00 00'	Response with Secured Data is returned to the sending entity containing SW = '6X XX' with Response Status Code in the additional data expected = '09' TAR unknown	RQ05_0101 RQ05_0401 RQ05_0402

# 6.5.2 SET STATUS

## 6.5.2.1 Test case 1: SET STATUS command within a command session

### 6.5.2.1.1 Initial Conditions

• Prepare for install of the Test Application with AID1 using the load() and install(for load) methods.

## 6.5.2.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is returned	RQ01_0002
	which contains:	to the sending entity containing	RQ01_0004
	<ul> <li>INSTALL[for install and make selectable] the Test Application with AID1</li> </ul>	'02 90 00'	RQ01_0007
	- SET STATUS to lock the applet with AID1		RQ02_0201
			RQ05_0501
			RQ05_0109
			RQ05_0301
2	Send Command with Secured Data to the Test	Response with Secured Data is returned	RQ01_0002
	Application with AID1, which contains:	to the sending entity containing	RQ01_0004
	- '00 01 00 00'	SW = '6X XX' with Response Status	RQ01_0007
		Code in the additional data expected =	
		'09' TAR unknown (see note)	RQ02_0201
			RQ05_0501
			RQ05_0109
			RQ05_0301
NOTE	In case of HTTPS the response is "unknown appli	cation".	

# 6.5.3 INSTALL

## 6.5.3.1 INSTALL[for load]

## 6.5.3.1.1 Test case 1: INSTALL[for load] as a single command in the session

- 6.5.3.1.1.1 Initial Conditions
  - None.

### 6.5.3.1.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD which contains: - INSTALL (for load) command with Load File AID1 - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '02 90 00' and shall contain the data byte '00'	RQ01_0007 RQ05_0101 RQ05_0109 RQ05_0301 RQ05_0302 RQ05_0601

### 6.5.3.1.2 Test case 2: INSTALL[for load] with memory management parameters

### 6.5.3.1.2.1 Initial Conditions

• None.

#### 6.5.3.1.2.2 Test Procedure

Sten	Description	Expected Result	RQ
Step 1	Description           Send Command with Secured Data to the TAR of the ISD which contains:           -         INSTALL [for load] with Load File AID1 The System Specific parameters "Non volatile code space limit" (Tag 'C6'), "Volatile data space limit" (Tag 'C7') and "Non volatile data space limit" (Tag 'C8') should be set Params = 'EF 0C C6 02 FF FF C7 02 FF FF C8 02 FF FF           -         LOAD           -         GET RESPONSE	Expected Result Response with Secured Data is returned, last or only additional data response shall be '03 90 00' and shall contain the data byte '00'	RQ RQ05_0101 RQ05_0601 RQ05_0701 RQ05_0702 RQ05_0703
2	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install and make selectable] with AID1 - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' and shall contain the data byte '00'	RQ05_0101 RQ05_0605
3	Send Command with Secured Data to the Test Application with AID1 which contains: - '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00'	RQ05_0101 RQ05_0701

### 6.5.3.2 INSTALL[for install]

6.5.3.2.1 Test case 1: INSTALL[for install] with SIM File Access and Toolkit Application Specific Parameters

#### 6.5.3.2.1.1 Initial Conditions

• Prepare for install of the 'Test Application AID2' using the load() and install(for load) methods.

#### 6.5.3.2.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ01_0007
	which contains:	returned, last or only additional data	
	<ul> <li>INSTALL[for install] with AID2.</li> </ul>	response shall be '02 90 00 00'	RQ05_0109
	The "SIM File Access and Toolkit		RQ05_0101
	Application Specific Parameters" TLV		RQ05_0601
	object (Tag 'CA') included in the "System		RQ05_0801
	Specific Parameters"		RQ05_0802
	(Tag 'EF') should be set. The MSL length		RQ05_0901
	should be set to '00'.		RQ05_0902
	Params = 'EF 1A		RQ05_0903
	C8 02 FF FF		
	C7 02 FF FF		
	CA 10 01 FF 01 00 10 02		
	01 01		
	03 02 00 00 03		
	TAR006'		
	<ul> <li>INSTALL[for make selectable] with AID2</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_0601
	Application with AID2 which contains:	returned, last or only additional data	RQ05_0803
	- '00 01 00 00'	response shall be '01 90 00'	RQ05_0802
			RQ05_0901

# 6.5.3.2.2 Test case 2: INSTALL[for install] with UICC System Specific Parameters and SIM File Access and Toolkit Application Specific Parameters

- 6.5.3.2.2.1 Initial Conditions
  - Prepare for install of the 'Test Application AID4' using the load() and install(for load) methods.

#### 6.5.3.2.2.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0901
	which contains:	returned, last or only additional data	RQ05_0902
	<ul> <li>INSTALL[for install] with AID4.</li> </ul>	response shall be '01 6A 80'	RQ05_0903
	The UICC System Specific Parameters		RQ05_1001
	(Tag 'EA') and the "SIM File Access and		RQ05_1101
	Toolkit Application Specific Parameters"		RQ05_1102
	TLV object (Tag 'CA') should be set:		RQ05_1104
	Params = 'EF 1A		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 10 01 FF 01 00 10 02		
	01 01 03 02 00 00 03 TAR010		
	EA 11		
	80 0F 01 00 10 02 01 01		
	03		
	02 00 00 03 TAR010		
	00'		
	- INSTALL[for make selectable] with AID20		
2	Send Command with Secured Data to the Test	SW = '6X XX' with Response Status	RQ05_1001
	Application with AID4 which contains:	Code in the additional data expected =	
	- '00 01 00 00'	'09' TAR unknown (CAT-TP/SMS), or	
		"unknown application" (HTTPS)	

# 6.5.3.2.3 Test case 3: INSTALL[for install] with UICC System Specific Parameter "UICC Toolkit Application specific parameters field"

#### 6.5.3.2.3.1 Initial Conditions

• Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

#### 6.5.3.2.3.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0801
	which contains:	returned, last or only additional data	RQ05_0802
	<ul> <li>INSTALL[for install] with AID3.</li> </ul>	response shall be '02 90 00 00'	RQ05_0807
	The UICC System Specific Parameter		RQ05_1002
	"UICC Toolkit Application specific		RQ05_1101
	parameters field" (Tag '80') should be set.		RQ05_1102
	The MSL length should be set to '00':		RQ05_1104
	Params = 'EF 08		RQ05_1601
	C8 02 FF FF		
	C7 02 FF FF		
	EA 11		
	80 0F 01 00 10 02 01 01		
	03 02 00 00 03		
	TAR008 00'		
	<ul> <li>INSTALL[for make selectable] with AID3</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_1101
	Application with AID3 which contains:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	

# 6.5.3.2.4 Test case 4: INSTALL[for install] with UICC System Specific Parameter "UICC Access Application specific parameters field"

- 6.5.3.2.4.1 Initial Conditions
  - Prepare for install of the 'Test Application AID8' using the load() and install(for load) methods.

#### 6.5.3.2.4.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1002
	which contains:	returned, last or only additional data	RQ05_1201
	<ul> <li>INSTALL[for install] with AID8.</li> </ul>	response shall be '02 90 00 00'	RQ05_1202
	The UICC System Specific Parameter		
	"UICC Access Application specific		
	parameters field" (Tag '81') should be set:		
	Params = 'EA 13		
	80 0B 01 00 10 00 00 00		
	03 TAR014 00		
	81 04 00 01 FF 00'		
	<ul> <li>INSTALL[for make selectable] with AID8</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_1201
	Application with AID8 which contains:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	

# 6.5.3.2.5 Test case 5: INSTALL[for install] with UICC System Specific Parameter "UICC Administrative Access Application specific parameters field"

#### 6.5.3.2.5.1 Initial Conditions

• Prepare for install of the 'Test Application AID5' using the load() and install(for load) methods.

#### 6.5.3.2.5.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data coded as	Response with Secured Data is	RQ05_1002
	Compact Remote command structure to the ISD,	returned, last or only additional data	RQ05_1401
	which contains:	response shall be '02 90 00 00'	RQ05_1402
	<ul> <li>INSTALL[for install] with AID5.</li> </ul>		
	The UICC System Specific Parameter		
	"UICC Administrative Access Application		
	specific parameters field" (Tag '82') should		
	be set:		
	Params = 'EA 13		
	80 0B 01 00 10 00 00 00		
	03 TAR011 00		
	82 04 00 01 FF 00'		
	<ul> <li>INSTALL[for make selectable] with AID5</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_1401
	Application with AID5 which contains:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	

# 6.5.3.2.6 Test case 6: INSTALL[for install] with UICC System Specific Parameter "UICC Access Application specific parameters field" and "UICC Administrative Access Application specific parameters field" for the same ADF

#### 6.5.3.2.6.1 Initial Conditions

• Prepare for install of the 'Test Application AID18' using the load() and install(for load) methods.

#### 6.5.3.2.6.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1003
.	which contains:	returned, last or only additional data	RQ05_1201
	INSTALL[for install] with AID18.	response shall be '02 90 00 00'	RQ05_1202
	The UICC System Specific Parameter		RQ05_1401
	"UICC Access Application specific		RQ05 1402
	parameters field" (Tag '81') and "UICC		
	Administrative Access Application specific		
	parameters field" (Tag '82') should be set:		
	Params = 'EA 34		
	80 0B 01 00 10 00 00 00		
	03 TAR022 00		
	81 13 10 A0 00 00 09		
	00 05 FF FF FF FF 89		
	E0 00 00 02 01 00 00		
	82 13 10 A0 00 00 09		
	00 05 FF FF FF FF 89		
	E0 00 00 02 01 00 00'		
	<ul> <li>INSTALL[for make selectable] with AID18</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_1003
	Application with AID18 with:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	
3	Send Command with Secured Data	Response with Secured Data is	RQ05_1003
	coded as [Compact Remote command structure] to	returned, last or only additional data	
	the ADF Remote File Management application,	response shall be '03 90 00' with	
	which contains:	response data containing all data of	
	- SELECT: DFTESTB	EFTARUB starting with '01 01 01' until the	
	- SELECT: EFTARUB	end of file	
	<ul> <li>UPDATE BINARY with data '01 01 01'</li> </ul>		

6.5.3.2.7 Test case 7: INSTALL[for install] with UICC System Specific Parameter "UICC Access Application specific parameters field" and "UICC Administrative Access Application specific parameters field" for the same UICC file system

#### 6.5.3.2.7.1 Initial Conditions

• Prepare for install of the 'Test Application AID18' using the load() and install(for load) methods.

#### 6.5.3.2.7.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the TAR	Response with Secured Data is	RQ05_1004
	value of the ISD, which contains:	returned, last or only additional data	RQ05_1201
	<ul> <li>INSTALL[for install] with AID18.</li> </ul>	response shall be '02 90 00 00'	RQ05_1202
	The UICC System Specific Parameter		RQ05_1401
	"UICC Access Application specific		RQ05_1402
	parameters field" (Tag '81') and "UICC		
	Administrative Access Application specific		
	parameters field" (Tag '82') should be set:		
	Params = 'EA 19		
	80 0B 01 00 10 00 00 00		
	03 TAR022 00		
	81 04 00 01 00 00		
	82 04 00 01 00 00'		
	<ul> <li>INSTALL[for make selectable] with AID18</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_1004
	Application with AID18 with:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	

Step	Description	Expected Result	RQ
3	Send Command with Secured Data to the	Response with Secured Data is	RQ05_1004
	Exercising RFM application, which contains:	returned, last or only additional data	
	- SELECT: MF	response shall be '03 90 00' with	
	- SELECT: DFTEST	response data containing all data of	
	- SELECT: EFTARU	EFTARU starting with '01 01 01' until the	
	- READ BINARY with P3/Le = '00'	end of file.	

# 6.5.3.2.8 Test case 8: INSTALL[for install] with the maximum number of timers required for SIM Toolkit Application Specific Parameters set too high ('09')

6.5.3.2.8.1 Initial Conditions

• Prepare for install of the 'Test Application AID2' using the load() and install(for load) methods.

#### 6.5.3.2.8.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID2. The maximum number of timers required for Toolkit Application Specific Parameters should be set to '09': Params = 'EF 12 CA 10 01 FF 01 09 10 02 01 01 03 02 00 00 03 TAR006' - INSTALL[for make selectable] with AID2	Response with Secured Data is returned, last or only additional data response shall be: '01 6A 80'	RQ05_0901 RQ05_0902 RQ05_0903 RQ05_1501
2	Send Command with Secured Data to the Test Application with AID2 which contains: - '00 01 00 00'	Response with Secured Data is returned: SW = '6X XX' with Response Status Code in the additional data expected = '09' TAR unknown (CAT-TP/SMS), or "unknown application" (HTTPS)	RQ05_1501

# 6.5.3.2.9 Test case 9: INSTALL[for install] with the maximum number of timers required for UICC Toolkit Application Specific Parameters set too high ('09')

#### 6.5.3.2.9.1 Initial Conditions

• Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

#### 6.5.3.2.9.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1101
	which contains:	returned, last or only additional data	RQ05_1102
	<ul> <li>INSTALL[for install] with AID3.</li> </ul>	response shall be '01 6A 80'	RQ05_1104
	The maximum number of timers required		RQ05_1501
	for Toolkit Application Specific Parameters		
	should be set to '09':		
	Params = 'EA 11		
	80 0F 01 09 10 02 01 01		
	03 02 00 00 03 TAR008		
	00'		
	<ul> <li>INSTALL[for make selectable] with AID3</li> </ul>		

Step	Description	Expected Result	RQ
2	Send Command with Secured Data to the Test Application with AID3 which contains: - '00 01 00 00'	Response with Secured Data is returned: SW = '6X XX' with Response Status Code in the additional data expected = '09' TAR unknown (CAT-TP/SMS), or "unknown application" (HTTPS)	RQ05_1501

# 6.5.3.2.10 Test case 10: INSTALL[for install] with the maximum number of channels required for SIM Toolkit Application Specific Parameters set too high ('08')

#### 6.5.3.2.10.1 Initial Conditions

• Prepare for install of the 'Test Application AID2' using the load() and install(for load) methods.

#### 6.5.3.2.10.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID2. The maximum number of channels required for Toolkit Application Specific Parameters should be set to '08': Params = 'EF 12 CA 10 01 FF 01 00 10 02 01 01 03 02 00 08 03 TAR006' - INSTALL[for make selectable] with AID2	Response with Secured Data is returned, last or only additional data response shall be '01 6A 80'	RQ05_0901 RQ05_0902 RQ05_0903 RQ05_1502
2	Send Command with Secured Data to the Test Application with AID2 which contains: - '00 01 00 00'	Response with Secured Data is returned: SW = '6X XX' with Response Status Code in the additional data expected = '09' TAR unknown (CAT-TP/SMS), or "unknown application" (HTTPS)	RQ05_1502

# 6.5.3.2.11 Test case 11: INSTALL[for install] with the maximum number of channels required for UICC Toolkit Application Specific Parameters set too high ('08')

#### 6.5.3.2.11.1 Initial Conditions

• Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

#### 6.5.3.2.11.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID3. The maximum number of channels required for Toolkit Application Specific Parameters should be set to '08': Params = 'EA 11 80 0F 01 00 10 02 01 01 03 02 08 00 03 TAR008 00' - INSTALL[for make selectable] with AID3	Response with Secured Data is returned, last or only additional data response shall be '01 6A 80'	RQ05_1101 RQ05_1102 RQ05_1104 RQ05_1502
2	Send Command with Secured Data to the Test Application with AID3 which contains: - '00 01 00 00'	Response with Secured Data is returned: SW = '6X XX' with Response Status Code in the additional data expected = '09' TAR unknown (CAT-TP/SMS), or "unknown application" (HTTPS)	RQ05_1502

# 6.5.3.2.12 Test case 12: INSTALL[for install] with the maximum number of services required for UICC Toolkit Application Specific Parameters set too high ('09')

- 6.5.3.2.12.1 Initial Conditions
  - Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

#### 6.5.3.2.12.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1101
	which contains:	returned, last or only additional data	RQ05_1102
	<ul> <li>- INSTALL[for install] with AID3.</li> </ul>	response shall be '01 6A 80'	RQ05_1104
	The maximum number of services required		RQ05_1503
	for Toolkit Application Specific Parameters		
	should be set to '09':		
	Params = 'EA 11		
	80 0F 01 00 10 02 01 01		
	03		
	02 08 00 03 TAR008 09'		
	<ul> <li>INSTALL[for make selectable] with AID3</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_1503
	Application with AID3 which contains:	returned:	
	- '00 01 00 00'	SW = '6X XX' with Response Status	
		Code in the additional data expected =	
		'09' TAR unknown (CAT-TP/SMS), or	
		"unknown application" (HTTPS)	

# 6.5.3.2.13 Test case 13: INSTALL[for install] with requested item identifier for SIM Toolkit Application Specific Parameters set to '128'

#### 6.5.3.2.13.1 Initial Conditions

• Prepare for install of the 'Test Application AID2' using the load() and install(for load) methods.

#### 6.5.3.2.13.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0901
	which contains:	returned, last or only additional data	RQ05_0902
	<ul> <li>INSTALL[for install] with AID2.</li> </ul>	response shall be '01 6X XX' (6X XX is	RQ05_0903
	The requested item identifier for Toolkit	error SW)	RQ05_1506
	Application Specific Parameters should be		
	set to '128':		
	Params = 'EF 1A		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 10 01 FF 01 00 10 02		
	01 01 03 80 00 00 03		
	TAR006'		
	<ul> <li>INSTALL[for make selectable] with AID2</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_1506
	Application with AID2which contains:	returned:	
	- '00 01 00 00'	SW = '6X XX' with Response Status	
		Code in the additional data expected =	
		'09' TAR unknown (CAT-TP/SMS), or	
		"unknown application" (HTTPS)	

# 6.5.3.2.14 Test case 14: INSTALL[for install] with requested item identifier for UICC Toolkit Application Specific Parameters set to '128'

- 6.5.3.2.14.1 Initial Conditions
  - Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

#### 6.5.3.2.14.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1101
	which contains:	returned, last or only additional data	RQ05_1102
	<ul> <li>INSTALL[for install] with AID3.</li> </ul>	response shall be '01 6X XX' (6X XX is	RQ05_1104
	The requested item identifier for Toolkit	error SW)	RQ05_1506
	Application Specific Parameters should be		
	set to '128':		
	Params = 'EA 11		
	80 0F 01 00 10 02 01 01		
	03		
	80 00 00 03 TAR008 00'		
	<ul> <li>INSTALL[for make selectable] with AID3</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_1506
	Application with AID3which contains:	returned:	
	- '00 01 00 00'	SW = '6X XX' with Response Status	
		Code in the additional data expected =	
		'09' TAR unknown (CAT-TP/SMS), or	
		"unknown application" (HTTPS)	

# 6.5.3.2.15 Test case 15: INSTALL[for install] with Minimum Security Level field of SIM Toolkit Application different from zero

#### 6.5.3.2.15.1 Initial Conditions

• Prepare for install of the 'Test Application AID2' using the load() and install(for load) methods.

#### 6.5.3.2.15.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1602
	which contains:	returned, last or only additional data	RQ05_1701
	<ul> <li>INSTALL[for install] with AID2.</li> </ul>	response shall be '02 90 00 00'	RQ05_1801
	MSL field should be set to '0102':		RQ05_1802
	Params = 'EF 1C		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 12 01 FF 01 00 10 02		
	01 01 03 02 00 02 01		
	01 03 TAR006'		
	<ul> <li>INSTALL[for make selectable] with AID2</li> </ul>		
2	Send Command with Secured Data with SPI1 set to	Response with Secured Data is	RQ05_1802
	'02' to the Test Application with AID2 with:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	RQ03_0104

# 6.5.3.2.16 Test case 16: INSTALL[for install] with Minimum Security Level field of UICC Toolkit Application different from zero

#### 6.5.3.2.16.1 Initial Conditions

• Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

#### 6.5.3.2.16.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1602
	which contains:	returned, last or only additional data	RQ05_1701
	<ul> <li>INSTALL[for install] with AID3.</li> </ul>	response shall be '02 90 00 00'	RQ05_1801
	MSL field should be set to '0102':		RQ05_1802
	Params = 'EA 11		
	80 0F 01 00 10 02 01 01		
	03		
	02 00 02 01 01 03 TAR008		
	00'		
	<ul> <li>INSTALL[for make selectable] with AID3</li> </ul>		
2	Send Command with Secured Data with SPI1 set to	Response with Secured Data is	RQ05_1802
	'02' to the Test Application with AID3 with:	returned, last or only additional data	RQ03_0104
	- '00 01 00 00'	response shall be '01 90 00'	

# 6.5.3.2.17 Test case 17: INSTALL[for install] with Minimum Security Level field of SIM Toolkit Application different from SPI1

#### 6.5.3.2.17.1 Initial Conditions

• Prepare for install of the 'Test Application AID2' using the load() and install(for load) methods.

#### 6.5.3.2.17.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1602
	which contains:	returned, last or only additional data	RQ05_1701
	<ul> <li>INSTALL[for install] with AID2</li> </ul>	response shall be '02 90 00 00'	RQ05_1801
	MSL field should be set to '0106':		RQ05_1802
	Params = 'EF 1C		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 12 01 FF 01 00 10 02		
	01 01 03 02 00 02 01		
	01 03 TAR006'		
	<ul> <li>INSTALL[for make selectable] with AID2</li> </ul>		
2	Send Command with Secured Data with SPI1 set to	Response with Secured Data is	RQ05_1802
	'02' to the Test Application with AID2 with:	returned:	RQ03_0102
	- '00 01 00 00'	SW = '6X XX' with Response Status	
		Code in the additional data expected =	
		'0A' 'Insufficient Security Level'	

# 6.5.3.2.18 Test case 18: INSTALL[for install] with Minimum Security Level field of UICC Toolkit Application different from SPI1

#### 6.5.3.2.18.1 Initial Conditions

• Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

#### 6.5.3.2.18.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1602
	which contains:	returned, last or only additional data	RQ05_1701
		response shall be '02 90 00 00'	RQ05_1801
			RQ05_1802

Step	Description	Expected Result	RQ
	<ul> <li>INSTALL[for install] with AID3.</li> </ul>		
	MSL field should be set to '0106':		
	Params = 'EA 11		
	80 0F 01 00 10 02 01 01		
	03 02 00 02 01 01 03		
	TAR008 00'		
	<ul> <li>INSTALL[for make selectable] with AID3</li> </ul>		
2	Send Command with Secured Data with SPI1 set to	Response with Secured Data is	RQ05_1802
	'02' to the Test Application with AID3 with:	returned:	
	- '00 01 00 00'	SW = '6X XX' with Response Status	RQ03_0102
		Code in the additional data expected =	
		'0A' 'Insufficient Security Level'	

# 6.5.3.2.19 Test case 19: INSTALL[for install] SIM Toolkit Applications with Access Domain Parameter equal to '00' and 'FF'

6.5.3.2.19.1 Initial Conditions

• Prepare for install of the 'Test Application AID6' and 'Test Application AID7' using the load() and install(for load) methods.

6.5.3.2.19.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0901
	which contains:	returned, last or only additional data	RQ05_0903
	<ul> <li>INSTALL[for install] with AID6.</li> </ul>	response shall be '02 90 00 00'	RQ05_1901
	The Access Domain Parameter should be		RQ05_2001
	set to '00':		RQ05_2004
	Params = 'EF 15		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 0B 01 00 01 00 10 00 00 03 TAR012'		
2	INSTALL[for make selectable] with AID6 Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2001
2	Application with AID6 with:	returned, last or only additional data	KQ05_2001
	- '00 01 00 00'	response shall be '01 90 00'	
3	Send Command with Secured Data to the	Response with Secured Data is	RQ05_2001
Ũ	Exercising RFM application, which contains:	returned, last or only additional data	
	- SELECT: MF	response shall be '03 90 00' with	
	- SELECT: DFTEST	response data containing all data of	
	- SELECT: EFTARU	EF <sub>TARU</sub> starting with '01 01 01' until the	
	<ul> <li>READ BINARY with P3/Le = '00'</li> </ul>	end of file	
4	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_2004
	which contains:	returned, last or only additional data	
	- INSTALL[for install] with AID7.	response shall be '02 90 00 00'	
	The Access Domain Parameter should be		
	set to 'FF':		
	Params = 'EF 15 C8 02 FF FF		
	C7 02 FF FF		
	CA 0B 01 FF 01 00 10 00		
	00 03 TAR013'		
	- INSTALL[for make selectable] with AID7		
5	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2004
	Application with AID7 with:	returned, last or only additional data	
	- '00 02 00 00'	response shall be '01 90 00'	
6	Send Command with Secured Data to the	Response with Secured Data is	RQ05_2004
	Exercising RFM application, which contains:	returned, last or only additional data	
	- SELECT: MF	response shall be '03 90 00' with	RQ03_0202
	- SELECT: DFTEST	response data containing all data of	
	- SELECT: EFTARU	EFTARU starting with '01 01 01' until the	
	<ul> <li>READ BINARY with P3/Le = '00'</li> </ul>	end of file	

# 6.5.3.2.20 Test case 20: INSTALL[for install] UICC Toolkit Applications with Access Domain Parameter equal to '00' and 'FF'

6.5.3.2.20.1 Initial Conditions

• Prepare for install of the 'Test Application AID8' and 'Test Application AID9' using the load() and install(for load) methods.

6.5.3.2.20.2	Test Procedure

Step	Description	Expected Result	RQ
1 1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID8 The Access Domain Parameter should be set to '00': Params = 'EA 13 80 0B 01 00 10 00 00 00 03 TAR014 00 81 04 00 01 00 00'	Expected Result Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00'	RQ05_1201 RQ05_1202 RQ05_1901 RQ05_2001 RQ05_2004
2	INSTALL[for make selectable] with AID8 Send Command with Secured Data to the Test Application with AID8 with:     '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00'	RQ05_2001
3	Send Command with Secured Data to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TARU</sub> - READ BINARY with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00' with response data containing all data of EF <sub>TARU</sub> starting with '01 01 01' until the end of file	RQ05_2001
4	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID9. The Access Domain Parameter should be set to 'FF': Params = 'EA 13 80 0B 01 00 10 00 00 00 03 TAR015 00 81 04 00 01 FF 00' - INSTALL[for make selectable] with AID9	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00'	RQ05_2004
5	Send Command with Secured Data to the Test Application with AID9 with: - '00 02 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00'	RQ05_2004
6	Send Command with Secured Data to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TARU</sub> - READ BINARY with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00' with response data containing all data of EF <sub>TARU</sub> starting with '01 01 01' until the end of file.	RQ05_2004 RQ03_0202

# 6.5.3.2.21 Test case 21: INSTALL[for install] SIM Toolkit Application with Access Domain Parameter equal to '00' and access condition set to 'NEVER'

#### 6.5.3.2.21.1 Initial Conditions

• Prepare for install of the 'Test Application AID6' using the load() and install(for load) methods.

#### 6.5.3.2.21.2 Test Procedure

Step	Description	Expected Result	RQ
	Send Command with Secured Data to the ISD, which contains:	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00'	RQ05_0901 RQ05_0903 RQ05_1901

Step	Description	Expected Result	RQ
	<ul> <li>INSTALL[for install] with AID6.</li> </ul>		RQ05_2002
	The Access Domain Parameter should be		RQ05_2003
	set to '00':		RQ05_2005
	Params = 'EF 15		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 0B 01 00 01 00 10 00		
	00 03 TAR012'		
	<ul> <li>INSTALL[for make selectable] with AID6</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2005
	Application with AID6 with:	returned, last or only additional data	
	- '00 03 00 00'	response shall be '01 90 00'	
3	Send Command with Secured Data to the	Response with Secured Data is	RQ05_2005
	Exercising RFM application, which contains:	returned, last or only additional data	
	- SELECT: MF	response shall be '03 90 00 55 55 55'	RQ03_0202
	- SELECT: DFTEST	containing all data of EFTNU	
	- SELECT: EFTNU		
	<ul> <li>READ BINARY with P3/Le = '00'</li> </ul>		

#### 6.5.3.2.22 Test case 22: INSTALL[for install] UICC Toolkit Application with Access Domain Parameter equal to '00' and access condition set to 'NEVER'

#### 6.5.3.2.22.1 Initial Conditions

• Prepare for install of the 'Test Application AID8' using the load() and install(for load) methods.

#### 6.5.3.2.22.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1201
	which contains:	returned, last or only additional data	RQ05_1202
	<ul> <li>INSTALL[for install] with AID8.</li> </ul>	response shall be '02 90 00 00'	RQ05_2002
	The Access Domain Parameter should be		RQ05_2003
	set to '00':		RQ05_2005
	Params = 'EA 13		
	80 0B 01 00 10 00 00 00		
	03 TAR014 00		
	81 04 00 01 00 00'		
	<ul> <li>INSTALL[for make selectable] with AID8</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2005
	Application with AID8 with:	returned, last or only additional data	
	- '00 03 00 00'	response shall be '01 90 00'	
3	Send Command with Secured Data to the	Response with Secured Data is	RQ05_2005
	Exercising RFM application, which contains:	returned, last or only additional data	
	- SELECT: MF	response shall be '03 90 00 55 55 55'	RQ03_0202
	- SELECT: DFTEST	containing all data of EFTNU	
	- SELECT: EFTNU		
	<ul> <li>READ BINARY with P3/Le = '00'</li> </ul>		

# 6.5.3.2.23 Test case 23: INSTALL[for install] SIM Toolkit Application with Access Domain Parameter not supported

#### 6.5.3.2.23.1 Initial Conditions

• Prepare for install of the 'Test Application AID2' using the load() and install(for load) methods.

#### 6.5.3.2.23.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID2 The Access Domain Parameter should be set to '02' and the Access Domain Data should be set to '0000F4': Params = 'EF 18 C8 02 FF FF C7 02 FF FF CA 0E 04 02 00 00 F4 01 00 10 00 00 03 TAR012' - INSTALL[for make selectable] with AID6	Response with Secured Data is returned, last or only additional data response shall be '01 6A 80'	RQ05_0901 RQ05_0903 RQ05_2006
2	Send Command with Secured Data to the Test Application with AID2 which contains: - '00 01 00 00'	Response with Secured Data is returned: SW = '6X XX' with Response Status Code in the additional data expected = '09' TAR unknown (CAT-TP/SMS), or "unknown application" (HTTPS)	RQ05_2006 RQ03_0202

#### 6.5.3.2.24 Test case 24: INSTALL[for install] UICC Toolkit Application with Access Domain Parameter not supported

#### 6.5.3.2.24.1 Initial Conditions

• Prepare for install of the 'Test Application AID8' using the load() and install(for load) methods.

#### 6.5.3.2.24.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1201
	which contains:	returned, last or only additional data	RQ05_1202
	<ul> <li>INSTALL[for install] with AID8.</li> </ul>	response shall be '01 6A 80'	RQ05_2006
	The Access Domain Parameter should be		
	set to '01':		
	Params = 'EA 13		
	80 0B 01 00 10 00 00 00		
	03 TAR014 00		
	81 04 00 01 01 00'		
	<ul> <li>INSTALL[for make selectable] with AID8</li> </ul>		
2	Send Command with Secured Data to the Test	SW = '6X XX' with Response Status	RQ05_2006
	Application with AID8 which contains:	Code in the additional data expected =	
	- '00 01 00 00'	'09' TAR unknown (CAT-TP/SMS), or	RQ03_0202
		"unknown application" (HTTPS)	

# 6.5.3.2.25 Test case 25: INSTALL[for install] UICC Toolkit Application with Access Domain Parameter equal to '02'

#### 6.5.3.2.25.1 Initial Conditions

• Prepare for install of the 'Test Application AID8' using the load() and install(for load) methods.

#### 6.5.3.2.25.2 Test Procedure

Stop	Description	Exported Becult	RQ
Step	Description	Expected Result	
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1201
	which contains:	returned, last or only additional data	RQ05_1202
	<ul> <li>INSTALL[for install] with AID8</li> </ul>	response shall be '02 90 00 00'	RQ05_2101
	The Access Domain Parameter should be		
	set to '02', the Access Domain Data		
	should be set to '0000F4':		
	Params = 'EA 16		
	80 0B 01 00 10 00 00 00		
	03 TAR014 00		
	81 07 00 04 02 00 00 F4		
	00'		
	<ul> <li>INSTALL[for make selectable] with AID8</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2101
	Application with AID8 with:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	
3	Send Command with Secured Data to the	Response with Secured Data is	RQ05_2101
	Exercising RFM application, which contains:	returned, last or only additional data	
	- ŠELECT: MF	response shall be '03 90 00' with	RQ03_0202
	- SELECT: DFTEST	response data containing all data of	
	- SELECT: EFtaru	EFTARU starting with '01 01 01' until the	
	<ul> <li>READ BINARY with P3/Le = '00'</li> </ul>	end of file	

#### 6.5.3.2.26 Test case 26: INSTALL[for install] SIM Toolkit Applications with Access Domain Parameter equal to '00' - independency from the PIN status at UICC-Terminal interface

#### 6.5.3.2.26.1 Initial Conditions

• Prepare for install of the 'Test Application AID6' using the load() and install(for load) methods.

#### 6.5.3.2.26.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID6. The Access Domain Parameter should be set to '00': Params = 'EF 15 C8 02 FF FF C7 02 FF FF CA 0B 01 00 01 00 10 00 00 03 TAR012' - INSTALL[for make selectable] with AID6	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00'	RQ05_0901 RQ05_0903 RQ05_2002 RQ05_2003
2	Send Command with Secured Data to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C2'	RQ05_2002 RQ05_2003
3	Send Command with Secured Data to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C1'	RQ05_2002 RQ05_2003

Step	Description	Expected Result	RQ
4	Send Command with Secured Data to the Exercising RFM application, which contains: - SELECT MF - SELECT: DFTEST - SELECT: EFTUACP - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C0'	RQ05_2002 RQ05_2003
5	Send Command with Secured Data to the Test Application with AID6 with: - '00 04 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00'	RQ05_2002 RQ05_2003
6	Send Command with Secured Data to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DFTEST - SELECT: EFTUACP - READ BINARY with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00' with response data containing all data of EF <sub>TUACP</sub> starting with '01 01 01' until the end of file	RQ05_2002 RQ05_2003 RQ03_0201 RQ03_0202

#### 6.5.3.2.27 Test case 27: INSTALL[for install] UICC Toolkit Applications with Access Domain Parameter equal to '00' - independency from the PIN status at UICC-Terminal interface

#### 6.5.3.2.27.1 Initial Conditions

• Prepare for install of the 'Test Application AID8' using the load() and install(for load) methods.

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID8. The Access Domain Parameter should be set to '00': Params = 'EA 13 80 0B 01 00 10 00 00 00 03 TAR014 00 81 04 00 01 00 00' - INSTALL[for make selectable] with AID8	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00'	RQ05_1201 RQ05_1202 RQ05_2002 RQ05_2003
2	Send Command with Secured Data to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C2'	RQ05_2002 RQ05_2003
3	Send Command with Secured Data to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C1'	RQ05_2002 RQ05_2003
4	Send Command with Secured Data to the Exercising RFM application, which contains: - SELECT: MF - SELECT: DF <sub>TEST</sub> - SELECT: EF <sub>TUACP</sub> - VERIFY PIN with PIN = '30 30 30 30 FF FF FF FF'	Response with Secured Data is returned, last or only additional data response shall be '03 63 C0'	RQ05_2002 RQ05_2003
5	Send Command with Secured Data to the Test Application with AID8 with: - '00 04 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00'	RQ05_2002 RQ05_2003

Step	Description	Expected Result	RQ
6	Send Command with Secured Data to the	Response with Secured Data is	RQ05_2002
	Exercising RFM application, which contains:	returned, last or only additional data	RQ05_2003
	- SELECT: MF	response shall be '03 90 00' with	
	- SELECT: DFTEST	response data containing all data of	RQ03_0201
	- SELECT: EFTUACP	EFTUACP starting with '01 01 01' until the	RQ03_0202
	<ul> <li>READ BINARY with P3/Le = '00'</li> </ul>	end of file	

# 6.5.3.2.28 Test case 28: INSTALL[for install] of SIM Toolkit Applications with different Priority levels

#### 6.5.3.2.28.1 Initial Conditions

• Prepare for install of the 'Test Application AID10' using the load() and install(for load) methods.

#### 6.5.3.2.28.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0901
	which contains:	returned, last or only additional data	RQ05 0903
	- INSTALL[for install] with AID10.	response shall be '02 90 00 00'	RQ05_0303
	The Priority level should be set to '01':		RQ05_2303
	Params = 'EF 15		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 0B 01 FF 01 00 10 00		
	00 03 TAR016'		
	<ul> <li>INSTALL[for make selectable] with AID10</li> </ul>		
2	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_2301
	which contains:	returned, last or only additional data	
	<ul> <li>INSTALL[for install] with AID11.</li> </ul>	response shall be '02 90 00 00'	
	The Priority level should be set to 'FF':		
	Params = EF 15		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 0B 01 FF FF 00 10 00		
	00 03 TAR017'		
2	- INSTALL[for make selectable] with AID11	AID40 is triggered before AID44	DO05 0004
3	Start Proactive Session: Check Activation Priority	AID10 is triggered before AID11	RQ05_2301

### 6.5.3.2.29 Test case 29: INSTALL[for install] of UICC Toolkit Applications with different Priority levels

#### 6.5.3.2.29.1 Initial Conditions

• install(for load) method for 'Test Application AID12' and 'Test Application AID13' is performed successfully.

#### 6.5.3.2.29.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1101
	which contains:	returned, last or only additional data	RQ05_1102
	<ul> <li>INSTALL[for install] with AID12.</li> </ul>	response shall be '02 90 00 00'	RQ05_1104
	The Priority level should be set to '01':		RQ05_2301
	Params = 'EA 0D		RQ05_2303
	80 0B 01 00 10 00 00 00		
	03 TAR018 00'		
	<ul> <li>INSTALL[for make selectable] with AID12</li> </ul>		

Step	Description	Expected Result	RQ
2	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID13. The Priority level should be set to 'FF': Params = 'EA 0D 80 0B FF 00 10 00 00 00 03 TAR019 00' - INSTALL[for make selectable] with AID13	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00'	RQ05_2301
3	Start Proactive Session: Check Activation Priority	AID12 is triggered before AID13	RQ05_2301

#### 6.5.3.2.30 Test case 30: INSTALL[for install] SIM Toolkit Applets with same Priority levels

#### 6.5.3.2.30.1 Initial Conditions

• Prepare for install of the 'Test Application AID10' and 'Test Application AID11' using the load() and install(for load) methods.

#### 6.5.3.2.30.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0901
	which contains:	returned, last or only additional data	RQ05_0903
	<ul> <li>INSTALL[for install] with AID10.</li> </ul>	response shall be '02 90 00 00'	RQ05_2302
	The Priority level should be set to '01':		
	Params = 'EF 15		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 0B 01 FF 01 00 10 00		
	00 03 TAR016'		
	<ul> <li>INSTALL[for make selectable] with AID10</li> </ul>		
2	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_2302
	which contains:	returned, last or only additional data	
	<ul> <li>INSTALL[for install] with AID11.</li> </ul>	response shall be '02 90 00 00'	
	The Priority level should be set to '01':		
	Params = 'EF 15		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 0B 01 FF 01 00 10 00		
	00 03 TAR017'		
	<ul> <li>INSTALL[for make selectable] with AID11</li> </ul>		
3	Start Proactive Session: Check Activation Priority	AID10 is triggered before AID11	RQ05_2302

#### 6.5.3.2.31 Test case 31: INSTALL[for install] UICC Toolkit Applets with same Priority levels

#### 6.5.3.2.31.1 Initial Conditions

• Prepare for install of the 'Test Application AID12' and 'Test Application AID13' using the load() and install(for load) methods.

#### 6.5.3.2.31.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1101
	which contains:	returned, last or only additional data	RQ05_1102
	<ul> <li>INSTALL[for install] with AID12.</li> </ul>	response shall be '02 90 00 00'	RQ05_1104
	The Priority level should be set to '01':		RQ05_2302
	Params = EA 0D		
	80 0B 01 00 10 00 00 00		
	03 TAR018 00'		
	<ul> <li>INSTALL[for make selectable] with AID12</li> </ul>		
2	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_2302
	which contains:	returned, last or only additional data	
	<ul> <li>INSTALL[for install] with AID13.</li> </ul>	response shall be '02 90 00 00'	
	The Priority level should be set to '01':		
	Params = 'EA 0D		
	80 0B 01 00 10 00 00 00		
	03 TAR019 00'		
	<ul> <li>INSTALL[for make selectable] with AID13</li> </ul>		
3	Start Proactive Session: Check Activation Priority	AID12 is triggered before AID13	RQ05_2302

# 6.5.3.2.32 Test case 32: INSTALL[for install] two SIM Toolkit Applications with identical TAR value

#### 6.5.3.2.32.1 Initial Conditions

• Prepare for install of the 'Test Application AID2' and 'Test Application AID14' using the load() and install(for load) methods.

### 6.5.3.2.32.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0901
	which contains:	returned, last or only additional data	RQ05_0902
	<ul> <li>INSTALL[for install] with AID2.</li> </ul>	response shall be '02 90 00 00'	RQ05_0903
	TAR026 value should be set:		RQ05_2401
	Params = 'EF 1A		RQ05_2405
	C8 02 FF FF		
	C7 02 FF FF		
	CA 10 01 FF 01 00 10 02		
	01 01 03 02 00 00 03		
	TAR026'		
	<ul> <li>INSTALL[for make selectable] with AID2</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2405
	Application with TAR006, with:	returned:	
	- '00 01 00 00'	SW = '6X XX' with Response Status	
		Code in the additional data expected =	
		'09' TAR unknown (CAT-TP/SMS) or	
		"unknown application" (HTTPS)	
3	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2405
	Application with TAR026, with:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	

Step	Description	Expected Result	RQ
4	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID14. TAR026 value should be set: Params = 'EF 1A C8 02 FF FF C7 02 FF FF CA 10 01 FF 01 00 10 02 01 01 03 02 00 00 03 TAR026' - INSTALL[for make selectable] with AID14	Response with Secured Data is returned, last or only additional data response shall be '01 6A 80'	RQ05_2406
5	Send Command with Secured Data to the Test Application with AID14 which contains: - '00 01 00 00'	Response with Secured Data is returned: SW = '6X XX' with Response Status Code in the additional data expected = '09' TAR unknown (CAT-TP/SMS), or "unknown application" (HTTPS)	RQ05_2406

# 6.5.3.2.33 Test case 33: INSTALL[for install] two UICC Toolkit Application with identical TAR value

#### 6.5.3.2.33.1 Initial Conditions

• Prepare for install of the 'Test Application AID3' and 'Test Application AID15' using the load() and install(for load) methods.

#### 6.5.3.2.33.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1101
	which contains:	returned, last or only additional data	RQ05_1102
	<ul> <li>INSTALL[for install] with AID3.</li> </ul>	response shall be '02 90 00 00'	RQ05_1104
	TAR028 value should be set:		RQ05_2401
	Params = 'EA 11		RQ05_2403
	80 0F 01 00 10 02 0101 03		RQ05_2405
	02 00 00 03 TAR028 00'		
	<ul> <li>INSTALL[for make selectable] with AID3</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2405
	Application with TAR008, with:	returned:	
	- '00 01 00 00'	SW = '6X XX' with Response Status	
		Code in the additional data expected =	
		'09' TAR unknown (CAT-TP/SMS) or	
		"unknown application" (HTTPS)	
3	Send Command with Secured Data to the TAR028	Response with Secured Data is	RQ05_2405
	value, with:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	
4	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_2406
	which contains:	returned, last or only additional data	
	<ul> <li>INSTALL[for install] with AID15.</li> </ul>	response shall be '01 6A 80'	
	TAR028 value should be set:		
	Params = 'EA 11		
	80 0F 01 00 10 02 01 01		
	03 02 00 00 03 TAR028		
	00'		
	<ul> <li>INSTALL[for make selectable] with AID15</li> </ul>		
5	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2406
	Application with AID15 which contains:	returned:	
	- '00 01 00 00'	SW = '6X XX' with Response Status	
		Code in the additional data expected =	
		'09' TAR unknown (CAT-TP/SMS) or	
		"unknown application" (HTTPS)	

# 6.5.3.2.34 Test case 34: INSTALL[for install] SIM Toolkit Application with multiple TAR values

- 6.5.3.2.34.1 Initial Conditions
  - Prepare for install of the 'Test Application AID2' using the load() and install(for load) methods.

#### 6.5.3.2.34.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0901
	which contains:	returned, last or only additional data	RQ05_0902
	<ul> <li>INSTALL[for install] with AID2.</li> </ul>	response shall be '02 90 00 00'	RQ05_0903
	TAR006 and TAR007values should be set:		RQ05_2402
	Params = 'EF 1D		RQ05_2403
	C8 02 FF FF		
	C7 02 FF FF		
	CA 13 01 FF 01 00 10 02		
	01 01 03 02 00 00 06 TAR006 TAR007'		
	<ul> <li>INSTALL[for make selectable] with AID2</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2402
	Application with TAR006 value, which contains:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	
3	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2402
	Application with TAR007 value, which contains:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	

# 6.5.3.2.35 Test case 35: INSTALL[for install] UICC Toolkit Application with multiple TAR values

#### 6.5.3.2.35.1 Initial Conditions

• Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

#### 6.5.3.2.35.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1101
	which contains:	returned, last or only additional data	RQ05_1102
	<ul> <li>INSTALL[for install] with AID3.</li> </ul>	response shall be '02 90 00 00'	RQ05_1104
	TAR008 and TAR009values should be set:		RQ05_2402
	Params = 'EA 14		RQ05_2403
	80 12 01 00 10 02 01 01		
	03		
	02 00 00 06 TAR008		
	TAR009 00'		
	<ul> <li>INSTALL[for make selectable] with AID3</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2402
	Application with TAR008 value, which contains:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	
3	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2402
	Application with TAR009 value, which contains:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	

# 6.5.3.2.36 Test case 36: INSTALL[for install] SIM Toolkit Application without TAR value in the Install parameters, the AID contains TAR value

#### 6.5.3.2.36.1 Initial Conditions

• Prepare for install of the 'Test Application AID16' using the load() and install(for load) methods.

#### 6.5.3.2.36.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0901
	which contains:	returned, last or only additional data	RQ05_0902
	<ul> <li>INSTALL[for install] with AID16.</li> </ul>	response shall be '02 90 00 00'	RQ05_0903
	(AID16 contains TAR020 value).		RQ05_2404
	The TAR value length in install parameters		
	should be set to '00':		
	Params = 'EF 17		
	C8 02 FF FF		
	C7 02 FF FF		
	CA 0D 01 FF 01 00 10 02		
	01 01 03 02 00 00 00'		
	<ul> <li>INSTALL[for make selectable] with AID16</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2404
	Application with TAR010 value, which contains:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	

# 6.5.3.2.37 Test case 37: INSTALL[for install] UICC Toolkit Application without TAR value in the Install parameters, the AID contains TAR value

6.5.3.2.37.1 Initial Conditions

• Prepare for install of the 'Test Application AID17' using the load() and install(for load) methods.

#### 6.5.3.2.37.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1101
	which contains:	returned, last or only additional data	RQ05_1102
	<ul> <li>INSTALL[for install] with AID17.</li> </ul>	response shall be '02 90 00 00'	RQ05_1104
	(AID17 contains TAR021 value)		RQ05_2404
	The TAR value length in install parameters		
	should be set to '00':		
	Params = 'EA 0E		
	80 0C 01 00 10 02 01 01		
	03 02 00 00 00 00'		
	<ul> <li>INSTALL[for make selectable] with AID17</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2404
	Application with TAR021 value, which contains:	returned, last or only additional data	
	- '00 01 00 00'	response shall be '01 90 00'	

# 6.5.3.2.38 Test case 38: INSTALL[for install] for contactless application with Reader mode protocol data type A

#### 6.5.3.2.38.1 Initial Conditions

• Prepare for install of the 'Test Application AID19' using the load() and install(for load) methods.

#### 6.5.3.2.38.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_2502
	which contains:	returned, last or only additional data	RQ05_2504
	<ul> <li>INSTALL[for install] with AID19.</li> </ul>	response shall be '02 90 00 00'	RQ05_2506
	The "Reader mode protocol data Type A"		RQ05_2601
	TLV object (tag '86') should be set.		RQ05_2503
	Params= EF 0F		
	C7 02 FF FF		
	C8 02 FF FF		
	B0 05 86 01 03		
	00'		
	<ul> <li>INSTALL[for make selectable] with AID19</li> </ul>		
2	Activate the SWP interface and perform HCI	During the HCI initialization the UICC	RQ05_2601
	initialization	shall set DATARATE_MAX to '03'	

# 6.5.3.2.39 Test case 39: INSTALL[for install] for contactless application with Reader mode protocol data type B

#### 6.5.3.2.39.1 Initial Conditions

• Prepare for install of the 'Test Application AID20' using the load() and install(for load) methods.

#### 6.5.3.2.39.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_2502
	which contains:	returned, last or only additional data	RQ05_2504
	<ul> <li>INSTALL[for install] with AID20.</li> </ul>	response shall be '02 90 00 00'	RQ05_2506
	The "Reader mode protocol data Type B"		RQ05_2503
	TLV object (tag '87') should be set.		
	Params= 'EF 0F		
	C7 02 FF FF		
	C8 02 FF FF		
	B0 05 87 03 03 03 00		
	00'		
	<ul> <li>INSTALL[for make selectable] with AID20</li> </ul>		
2	Activate the SWP interface and perform HCI	During the HCI initialization the UICC	RQ05_2701
	initialization	shall set the parameters to the values	
		specified in step 1	

# 6.5.3.2.40 Test case 40: INSTALL[for install] for contactless application with Card Emulation mode

#### 6.5.3.2.40.1 Initial Conditions

• Prepare for install of the 'Test Application AID21' using the load() and install(for load) methods.

#### 6.5.3.2.40.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID21. Params= 'EF 11 C7 02 FF FF C8 02 FF FF A0 07 80 00 A5 03 82 01 C0 00' - INSTALL[for make selectable] with AID21	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00'	RQ05_2501

#### 6.5.3.2.41 Test case 41: INSTALL[for install] with UICC System Specific Parameter "UICC Toolkit Application specific parameters field" and "UICC Toolkit parameters DAP" - DAP is calculated with DES

#### 6.5.3.2.41.1 Initial Conditions

• Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

		RQ
Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_0801
which contains:	returned, last or only additional data	RQ05_0802
<ul> <li>INSTALL[for install] with AID3.</li> </ul>	response shall be '02 90 00 00'	RQ05_0807
The UICC System Specific Parameter		RQ05_1002
•• •		RQ05_1101
		RQ05_1102
		RQ05_1104
		RQ05_1301
		RQ05_1302
0001		RQ05_1303
		RQ05_1304
0		
	Response with Secured Data is	RQ05 1301
		1.000_1001
	- INSTALL[for install] with AID3.	<ul> <li>INSTALL[for install] with AID3. The UICC System Specific Parameter "UICC Toolkit Application specific parameters field" (Tag '80') and "UICC Toolkit parameters DAP" (Tag 'C3') should be set: Params = 'EF 08 C8 02 FF FF C7 02 FF FF EA XX 80 0F 01 00 10 02 01 01 03 02 00 00 03 TAR008 00 C3 YY DAP' The DAP signature is calculated with DES algorithm.</li> <li>INSTALL[for make selectable] with AID3</li> <li>Send Command with Secured Data to the Fest Application with AID3 which contains:</li> </ul>

#### 6.5.3.2.42 Test case 42: INSTALL[for install] with UICC System Specific Parameter "UICC Toolkit Application specific parameters field" and "UICC Toolkit parameters DAP" - DAP is calculated with AES

#### 6.5.3.2.42.1 Initial Conditions

• Prepare for install of the 'Test Application AID3' using the load() and install(for load) methods.

#### 6.5.3.2.42.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID3. The UICC System Specific Parameter "UICC Toolkit Application specific parameters field" (Tag '80') and "UICC Toolkit parameters DAP" (Tag 'C3') should be set: Params = 'EF 08 C8 02 FF FF C7 02 FF FF EA XX 80 0F 01 00 10 02 01 01 03 02 00 00 03 TAR008 00 C3 YY DAP' The DAP signature is calculated with AES algorithm. - INSTALL[for make selectable] with AID3	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00'	RQ05_0801 RQ05_0802 RQ05_0807 RQ05_1002 RQ05_1101 RQ05_1102 RQ05_1301 RQ05_1302 RQ05_1303 RQ05_1305
2	Send Command with Secured Data to the Test Application with AID3 which contains: '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00'	RQ05_1301

# 6.5.3.2.43 Test case 43: INSTALL[for install] UICC Toolkit Applications with Access Domain DAP using DES algorithm

#### 6.5.3.2.43.1 Initial Conditions

• Prepare for install of the 'Test Application AID8' using the load() and install(for load) methods.

#### 6.5.3.2.43.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1201
	which contains:	returned, last or only additional data	RQ05_1202
	<ul> <li>INSTALL[for install] with AID8.</li> </ul>	response shall be '02 90 00 00'	RQ05_1901
	The Access Domain Parameter should be		RQ05_2001
	set to '00':		RQ05_2201
	Params = 'EA 13		RQ05_2202
	80 0B 01 00 10 00 00 00		RQ05_2203
	03 TAR014 00		RQ05_2204
	81 XX 00 01 00 YY DAP'		RQ05_2205
	The DAP signature is calculated with DES		RQ05_2206
	algorithm.		
	<ul> <li>INSTALL[for make selectable] with AID8</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2201
	Application with AID8 with:	returned, last or only additional data	
	'00 01 00 00'	response shall be '01 90 00'	
3	Send Command with Secured Data to the UICC	Response with Secured Data is	RQ05_2201
	Shared File System Remote File Management	returned, last or only additional data	
	application, which contains:	response shall be '03 90 00' with	
	- SELECT: DFTEST.	response data containing all data of	
	- SELECT: EFTARU.	EFTARU starting with '01 01 01' until the	
	<ul> <li>READ BINARY with P3/Le = '00'</li> </ul>	end of file.	

# 6.5.3.2.44 Test case 44: INSTALL[for install] UICC Toolkit Applications with Access Domain DAP using AES algorithm

- 6.5.3.2.44.1 Initial Conditions
  - Prepare for install of the 'Test Application AID8' using the load() and install(for load) methods.

#### 6.5.3.2.44.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD,	Response with Secured Data is	RQ05_1201
	which contains:	returned, last or only additional data	RQ05_1202
	<ul> <li>INSTALL[for install] with AID8.</li> </ul>	response shall be '02 90 00 00'	RQ05_1901
	The Access Domain Parameter should be		RQ05_2001
	set to '00':		RQ05_2201
	Params = 'EA 13		RQ05_2202
	80 0B 01 00 10 00 00 00		RQ05_2203
	03 TAR014 00		RQ05_2204
	81 XX 00 01 00 YY DAP'		RQ05_2205
	The DAP signature is calculated with AES		RQ05_2207
	algorithm.		
	<ul> <li>INSTALL[for make selectable] with AID8</li> </ul>		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_2201
	Application with AID8 with:	returned, last or only additional data	
	'00 01 00 00'	response shall be '01 90 00'	
3	Send Command with Secured Data to the UICC	Response with Secured Data is	RQ05_2201
	Shared File System Remote File Management	returned, last or only additional data	
	application, which contains:	response shall be '03 90 00' with	
	- SELECT: DFTEST.	response data containing all data of	
	- SELECT: EF <sub>TARU</sub> .	EF <sub>TARU</sub> starting with '01 01 01' until the	
	<ul> <li>READ BINARY with P3/Le = '00'</li> </ul>	end of file.	

## 6.5.4 LOAD

#### 6.5.4.1 Test case 1: LOAD with DES for DAP verification

#### 6.5.4.1.1 Initial Conditions

• The key and algorithm to be used for DAP Verification or Mandated DAP Verification are implicitly known by the corresponding Security Domain.

6.5.4.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to the ISD which contains:	Response with Secured Data is	RQ05_0109
	- INSTALL[for load] command with Load File	returned, last or only additional data	RQ05_0301
	AID1	response shall be '03 90 00' and contain	RQ05_0606,
	<ul> <li>LOAD command with DES DAP</li> </ul>	'00' data byte	RQ05_2801,
	- GET RESPONSE		RQ05_2802
2	Send Secured Data to the ISD, which contains:	Response with Secured Data is	RQ02_0104
	<ul> <li>INSTALL[for install and make selectable]</li> </ul>	returned, last or only additional data	RQ05_0109
	the applet with AID1	response shall be '02 90 00' and contain	RQ05_0301
	- GET RESPONSE	'00' data byte	RQ05_0605
3	Send Secured Data to the Test Application with	Response with Secured Data is	RQ05_0109
	AID1, which contains:	returned, last or only additional data	RQ05_0301
	- '00 01 00 00'	response shall be '01 90 00'	

# 6.5.5 PUT KEY

6.5.5.1 Test case 1: PUT KEY - create new 3DES 2 keys

### 6.5.5.1.1 Initial Conditions

• Install the 'Test Application with AID4'.

### 6.5.5.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to create new key set, with Key Version Number (KVN) and key identifiers of KIc, KID and DEK as defined in ETSI TS 102 225 [2], to the Test Application with AID40 which contains: - PUT KEY command with new 3DES 2 keys - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '02 90 00' and contain 'KVN KeyCheckValue1 KeyCheckValue2 KeyCheckValue3', secured using keys as indicated in the	RQ05_0109 RQ05_0301, RQ05_0110 RQ05_2901 RQ05_2904 RQ05_2905
	The encrypting key to be used is the DEK of the same Key Version Number (KVN) as the KIc and KID in the Command Packet containing the PUT KEY command	Command Packet	RQ05_2906 RQ05_3105

### 6.5.5.2 Test case 2: PUT KEY - create new 3DES 3 keys

#### 6.5.5.2.1 Initial Conditions

• Install the 'Test Application with AID4'.

#### 6.5.5.2.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to create new key set, with Key Version Number (KVN) and key identifiers of Klc, KID and DEK as defined in ETSI TS 102 225 [2], to the Test Application with AID4 which contains: - PUT KEY command with new 3DES 3 keys - GET RESPONSE The encrypting key to be used is the DEK of the same key version number (KVN) as the Klc and KID	Response with Secured Data is returned, last or only additional data response shall be '02 90 00' and contain 'KVN KeyCheckValue1 KeyCheckValue2 KeyCheckValue3', secured using keys as indicated in the Command Packet	RQ05_0110 RQ05_2901 RQ05_2904 RQ05_2905 RQ05_2906 RQ05_3105
	in the Command Packet containing the PUT KEY command		

### 6.5.5.3 Test case 3: PUT KEY - add and replace DES keys

#### 6.5.5.3.1 Initial Conditions

• Install the 'Test Application with AID4'.

#### 6.5.5.3.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to create new key set, with Key Version Number (KVN) and key identifiers of KIc, KID and DEK as defined in ETSI TS 102 225 [2], to the Test Application with AID4 which contains: - PUT KEY command with new DES keys - GET RESPONSE The encrypting key to be used is the DEK of the same Key Version Number (KVN) as the KIc and KID in the Command Packet containing the PUT KEY command	Response with Secured Data is returned, last or only additional data response shall be '02 90 00' and contain 'KVN KeyCheckValue1 KeyCheckValue2 KeyCheckValue3', secured using keys as indicated in the Command Packet	RQ05_2901 RQ05_2902 RQ05_2904 RQ05_2905 RQ05_2906
2	Send Secured Data to change KIc with Key Version number (KVN) defined in step 1, to the Test Application with AID4 which contains: - PUT KEY command with existing DES keys - GET RESPONSE Use DES key for DEK (key id 3) in ECB mode of the same key version number as the changed keys	Response with Secured Data is returned, last or only additional data response shall be '02 90 00' and contain 'KVN KeyCheckValue1', secured using keys as indicated in the Command Packet	RQ05_2901 RQ05_2902 RQ05_2903 RQ05_2905 RQ05_2906

## 6.5.5.4 Test case 4: PUT KEY - create new 16 bytes AES keys

#### 6.5.5.4.1 Initial Conditions

• Install the 'Test Application with AID4'.

### 6.5.5.4.2 Test Procedure

1 Send Secured Data to create new key set with key Response with Secured Data is RQ05_2	Q
<ul> <li>Version number and key identifiers of Klc, KID and DEK as defined in ETSI TS 102 225 [2], to the Test Application with AID4 which contains:         <ul> <li>PUT KEY command with new 16 bytes AES keys</li> <li>GET RESPONSE</li> <li>Use AES key for DEK (key id 3) of the same length with key type '88' in CBC mode with initial chaining value set to zero</li> </ul> </li> </ul>	_2901 _2904 _2905 _2906 _3101 _3102

### 6.5.5.5 Test case 5: PUT KEY - create new 24 bytes AES keys

#### 6.5.5.5.1 Initial Conditions

• Install the 'Test Application with AID4'.

### 6.5.5.5.2 Test Procedure

Step	Description	Expected Result	RQ
1 1	Send Secured Data with key version number and key identifiers of KIc, KID and DEK as defined in ETSI TS 102 225 [2], to the Test Application with AID4 which contains: - PUT KEY command with new 24 bytes AES keys - GET RESPONSE Use AES key for DEK (key id 3) of the greater length with key type '88' in CBC mode with initial chaining value set to zero. Use padding with any value.	Expected Result           Response with Secured Data is           returned, last or only additional data           response shall be '02 90 00' and contain           'KVN KeyCheckValue1           KeyCheckValue2 KeyCheckValue3',           secured using keys as indicated in the           Command Packet	RQ05_2901 RQ05_2904 RQ05_2905 RQ05_2906 RQ05_3101 RQ05_3102 RQ05_3103 RQ05_3104 RQ05_3105 RQ05_3106 RQ05_3107
2	Send Secured Data with key version number and key identifiers of KIc, KID and DEK as defined in ETSI TS 102 225 [2], to the Test Application with AID4 which contains: - PUT KEY command with 24 bytes AES (error) Use AES key for DEK (key id 3) of the shorter length (16 bytes).	Response with Secured Data is returned, last or only additional data response shall be '01 69 85' or other error SW	RQ05_3108 RQ05_3109 RQ05_3101 RQ05_3103

### 6.5.5.6 Test case 6: PUT KEY - create new 32 bytes AES keys

### 6.5.5.6.1 Initial Conditions

• Install the 'Test Application with AID4'.

#### 6.5.5.6.2 Test Procedure

Step	Description	Expected Result	RQ
	Send Secured Data with key version number and key identifiers of KIc, KID and DEK as defined in ETSI TS 102 225 [2] 2to the Test Application with AID4 which contains: - PUT KEY command with new 32 bytes AES keys - GET RESPONSE Use AES key for DEK (key id 3) of the same length with key type '88' in CBC mode with initial chaining value set to zero	Response with Secured Data is returned, last or only additional data response shall be '02 90 00' and contain 'KVN KeyCheckValue1 KeyCheckValue2 KeyCheckValue3', secured using keys as indicated in the Command Packet	RQ05_2901 RQ05_2904 RQ05_2905 RQ05_2906 RQ05_3101 RQ05_3102 RQ05_3103 RQ05_3104 RQ05_3105 RQ05_3106 RQ05_3107 RQ05_3108
2	Send Secured Data with key version number and key identifiers of KIc, KID and DEK as defined in ETSI TS 102 225 [2], to the Test Application with AID4 which contains: - PUT KEY command with 32 bytes AES keys (error) Use AES key for DEK (key id 3) of the shorter length (16 bytes)	Response with Secured Data is returned, last or only additional data response shall be '01 69 85' or other error SW	RQ05_3101 RQ05_3103

# 6.5.6 GET STATUS

## 6.5.6.1 Test case 1: GET STATUS with different P1 values

### 6.5.6.1.1 Initial Conditions

• Install Test Application with AID1 with predefined menu entries Toolkit Application specific parameters.

### 6.5.6.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to the ISD, which contains:	Response with Secured Data is	RQ05_0109
	<ul> <li>GET STATUS with P1='80'</li> </ul>	returned, last or only additional data	RQ05_0301
	- GET RESPONSE	response shall be '02 90 00', containing	RQ05_3201
		'EA LEN 80 LEN MP ID 00/01' (see	RQ05_3203
		note)	RQ05_3301
			RQ05_3302
			RQ05_3303
2	Send Secured Data with the AID of the Test	Response with Secured Data is	RQ05_0109
	Application to the ISD, which contains:	returned, last or only additional data	RQ05_0301
	<ul> <li>GET STATUS with P1= '40' with AID1</li> </ul>	response shall be '02 90 00'(see note),	RQ05_3201
	- GET RESPONSE	containing 'EA LEN 80 LEN MP ID	RQ05_3203
		00/01'(see note)	
3	Send Secured Data with the AID of the Test	Response with Secured Data is	RQ05_0109
	Application to the ISD, which contains:	returned, last or only additional data	RQ05_0301
	<ul> <li>GET STATUS with P1= '20' with package</li> </ul>	response shall be '02 90 00'(see note),	RQ05_3201
	AID1	containing 'EA LEN 80 LEN MP ID	RQ05_3203
	- GET RESPONSE	00/01' (see note)	
4	Send Secured Data with the AID of the Test	Response with Secured Data is	RQ05_0109
	Application to the ISD, which contains:	returned, last or only additional data	RQ05_0301
	<ul> <li>GET STATUS with P1= '10' with package</li> </ul>	response shall be '02 90 00'(see note),	RQ05_3201
	AID	containing 'EA LEN 80 LEN MP ID	RQ05_3203
NOTE	- GET RESPONSE	00/01' (see note)	
NOTE:	Values of MP (menu entry position) or ID (menu e	entry identifier) should not be checked.	

## 6.5.6.2 Test case 2: GET STATUS with optional P1 values

### 6.5.6.2.1 Initial Conditions

• Install Test Application with AID1 with predefined menu entries Toolkit Application specific parameters.

### 6.5.6.2.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to the Test Application with	Response with Secured Data is	RQ05_0109
	AID1, which contains:	returned, last or only additional data	RQ05_0301
	<ul> <li>GET STATUS with P1= 'D0'</li> </ul>		RQ05_3201
	- GET RESPONSE	'EA LEN 80 LEN MP ID 00/01'(see note)	RQ05_3203
NOTE: Values of MP (menu entry position) or ID (menu entry identifier) should not be checked.			

## 6.5.6.3 Test case 3: GET STATUS returns Menu Entries in the LOCKED state

### 6.5.6.3.1 Initial Conditions

• Install Test Application with AID1 with predefined menu entries Toolkit Application specific parameters.

#### 6.5.6.3.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to the ISD, which contains:	Response with Secured Data is	RQ01_0002
	<ul> <li>SET STATUS to lock the applet with AID1</li> </ul>	returned, last or only additional data	
		response shall be '01 90 00'	RQ05_0501
2	Send Secured Data coded to the ISD, which	Response with Secured Data is	RQ05_3201
	contains:	returned, last or only additional data	RQ05_3203
	<ul> <li>GET STATUS of the applet with AID1, i.e.</li> </ul>	response shall be '02 90 00', containing	RQ05_3301
	'80 F2 P1 02 02 4F LEN AID1 00'	'EA LEN 80 LEN MP ID 00/01' (see	RQ05_3302
	- GET RESPONSE	note)	RQ05_3303
NOTE: Values of MP (menu entry position) or ID (menu entry identifier) should not be checked.			

## 6.5.7 GET DATA

### 6.5.7.1 Test case 1: GET DATA with different P1 values

#### 6.5.7.1.1 Initial Conditions

• All necessary information (i.e. Card Data, Key Information, Extended Card Resources Information) is made available on the card.

#### 6.5.7.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to the ISD, which contains:	Response with Secured Data is	RQ05_0109
	- GET DATA with P1P2 = '0066' (Card Data)	returned, last or only additional data	RQ05_0301
	- GET RESPONSE	includes tag '66' and ends with '02 90 00'	RQ05_3401
			RQ05_3402
2	Send Secured Data to the ISD, which contains:	Response with Secured Data is	RQ05_0109
	<ul> <li>GET DATA with P1P2 = '00E0' (Key</li> </ul>	returned, last or only additional data	RQ05_0301
	Information Template)	includes tag 'E0' and ends with '02 90	RQ05_3401
	- GET RESPONSE	00'	RQ05_3402
3	Send Secured Data to the Application Provider SD	Response with Secured Data is	RQ05_0109
	with AID40, which contains:	returned, last or only additional data	RQ05_0301
	<ul> <li>GET DATA with P1P2 = '00E0' (Key</li> </ul>	includes tag 'E0' and ends with '02 90	RQ05_3401
	Information Template)	00'	RQ05_3404
	- GET RESPONSE		
4	Send Secured Data to the ISD, which contains:	Response with Secured Data is	RQ05_0109
	<ul> <li>GET DATA with P1P2 = 'FF21' (Extended</li> </ul>	returned, last or only additional data	RQ05_0301
	Card resources information)	includes '81 LEN NN 82 LEN NVM 83	RQ05_3405
	- GET RESPONSE	LEN VM' and end with '02 90 00' (see	RQ05_3501
		note)	RQ05_3503
			RQ05_3504
NOTE:	Values and length of NN (number of installed appl	ications), NVM (Non Volatile Memory) and	VM (Volatile
	Memory) should not be checked.		

## 6.5.8 STORE DATA

### 6.5.8.1 Test case 1: STORE DATA

#### 6.5.8.1.1 Initial Conditions

• Install Test Application with AID1.

#### 6.5.8.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to the Test Application with	Response with Secured Data is returned,	RQ05_0109
	AID1, which contains:	last or only additional data ends with '01	RQ05_3601
	- STORE DATA	90 00'	

### 6.5.8.2 Test case 2: STORE DATA with a Forbidden Load File List

#### 6.5.8.2.1 Initial Conditions

• Install Test Application with AID1.

#### 6.5.8.2.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Secured Data to the Test Application with	Response with Secured Data is	RQ05_3602
	AID1, which contains:	returned, last or only additional data	to
	<ul> <li>STORE DATA with Forbidden Load File</li> </ul>	ends with '01 90 00'	RQ05_3611
	List		

# 6.5.9 RAM implementation over HTTPS

The content of this clause is FFS.

# 6.6 Additional command for push

#### 6.6.1 BIP

See test case definition in clause 6.6.2.

### 6.6.2 CAT\_TP

- 6.6.2.1 Test case 1: Send Secured Data (READ BINARY) using Expanded and Compact format with the different TAR value
- 6.6.2.1.1 Initial Conditions
  - None.

### 6.6.2.1.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data coded as:	Response with Secured Data is	RQ02_0901
	[Compact Remote command structure] to the	returned, last or only additional data	
	Exercising RFM application [TAR value for Compact	response shall be '03 90 00' and contain	RQ05_0107
	format], which contains:	all data of EF <sub>TARU</sub> until the end of file	RQ05_0108
	- SELECT: MF		
	- SELECT: DFTEST		
	- SELECT: EFTARU		
	<ul> <li>READ BINARY with P3/Le = '00'</li> </ul>		

Step	Description	Expected Result	RQ
2	Send Command with Secured Data coded as:	Secured Response Data is returned:	RQ02_0902
	[Expanded Remote command structure] to the	'AB 7F	
	Exercising RFM application [TAR value for	80 01 04	RQ05_0107
	Expanded format], which contains:	23 LEN [Data 90 00]' where the	RQ05_0108
	- SELECT: MF	Data should be the content of	
	- SELECT: DFTEST	EFtaru	
	- SELECT: EF <sub>TARU</sub>		
	- READ BINARY		
	TLV Structure: C-APDU TLV		
	Definite length coding		

# 6.6.2.2 Test case 2: Send Secured Data (READ BINARY) using Expanded and Compact format with the same TAR value

- 6.6.2.2.1 Initial Conditions
  - None.

#### 6.6.2.2.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data coded as:	SW = '6X XX' with Error Response	RQ04_0102
	[Expanded Remote command structure] to the	Status Code in the additional data	
	Exercising RFM application [TAR value for Compact	expected = '09' TAR unknown or other	RQ05_0108
	format], which contains:	error	
	- SELECT: MF		
	- SELECT: DFTEST		
	- SELECT: EF <sub>TARU</sub>		
	- READ BINARY		
	TLV Structure: C-APDU TLV		
	Definite length coding		
2	Send Command with Secured Data coded as:	SW = '6X XX' with Error Response	RQ04_0102
	[Compact Remote command structure] to the	Status Code in the additional data	
	Exercising RFM application [TAR value for		RQ05_0108
	Expanded format], which contains:	error	
	- SELECT: MF		
	- SELECT: DFTEST		
	- SELECT: EFtaru		
	- READ BINARY		

### 6.6.2.3 Test case 3: PUSH Command, PoR required - No Error

#### 6.6.2.3.1 Initial Conditions

• None.

#### 6.6.2.3.2 Test Procedure

Step	Description	Expected result	RQ
1	Send ENVELOPE_SMS_PP to the ISD with SPI = '02 21', and Secured Data which contains: - PUSH command for BIP channel opening - PUSH command for CAT_TP link establishment i.e. Data = '80 EC 01 01 25 35 07 02 00 00 03 00 00 02 3C 03 01 1F 40 39 02 05 78 0A 09 47 53 4D 41 65 55 49 43 43 3E 05 21 7F 00 00 01 80 EC 01 02 05 3C 03 01 02 02'	SW = '91 XX'	RQ06_0101 RQ06_0701 RQ06_0702 RQ06_0806 RQ06_0901
2	Send FETCH	OPEN CHANNEL with response data 'D0 27 81 03 01 40 01 82 02 81 82 35 07 02 00 00 03 00 00 02 39 02 05 78 47 0A 09 47 53 4D 41 65 55 49 43 43 3C 03 01 30 50 3E 05 21 7F 00 00 01 90 00'	RQ06_0201 RQ06_0801 RQ06_0802
3	Send TERMINAL RESPONSE (OPEN CHANNEL)	SW = '91 XX'	RQ06_0201
4	Send FETCH	PROACTIVE COMMAND: SEND DATA (SYN PDU)	
5	Send TERMINAL RESPONSE (SEND DATA)	SW = '91 XX'	RQ06_0201
6	Send ENVELOPE(EVENT DOWNLOAD - Data available)	SW = '91 XX'	
7	Send FETCH	PROACTIVE COMMAND: RECEIVE DATA (SYN/ACK PDU)	
8	Send TERMINAL RESPONSE (RECEIVE DATA)	SW = '91 XX'	RQ06_0201
9	Send FETCH	PROACTIVE COMMAND: SEND DATA (ACK PDU)	
10	Send TERMINAL RESPONSE (SEND DATA)	SW = '91 XX'	RQ06_0201
11	Send FETCH	PROACTIVE COMMAND: SEND SHORT MESSAGE (PoR)	RQ06_0401
12	Send TERMINAL RESPONSE (SEND SHORT MESSAGE)	SW = '90 00'	RQ06_0301

# 6.7 Confidential application management

FFS.

# Annex A (normative): BER-TLV tags

# A.1 BER-TLV tags

Description	Length of tag	Value
Command Scripting template tag for definite length coding	1	Defined in ETSI TS 101 220 [6]
Response Scripting template tag for definite length coding	1	Defined in ETSI TS 101 220 [6]
Command Scripting template tag for indefinite length coding	1	Defined in ETSI TS 101 220 [6]
Response Scripting template tag for indefinite length coding	1	Defined in ETSI TS 101 220 [6]
Number of executed command TLV objects tag	1	Defined in ETSI TS 101 220 [6]
Bad format TLV tag	1	Defined in ETSI TS 101 220 [6]
Immediate Action tag	1	Defined in ETSI TS 101 220 [6]
Immediate Action Response tag	1	Defined in ETSI TS 101 220 [6]
Error Action tag	1	Defined in ETSI TS 101 220 [6]
Script Chaining tag	1	Defined in ETSI TS 101 220 [6]
Script Chaining Response tag	1	Defined in ETSI TS 101 220 [6]

#### Table A.1: BER-TLV tags

## Annex B (normative): Default file system and files content

# B.1 DF<sub>TEST</sub> (UICC Access Tests DF)

## B.1.1 DF identifier

A file identifier not allocated to ensure that the File ID is not used by any other DF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '7F4A'.

# B.1.2 EF<sub>TNU</sub> (Transparent Never Update)

This is a 3 byte transparent EF for testing purposes with fixed contents.

A file identifier not allocated to ensure that the File ID is not used by any other EF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '6F 02'.

	Identifier: '6FXX'		Structure: transparent
	File size: 3 bytes	6	Update activity: low
Access Condi READ UPDA ACTIV DEAC	TE	ALWAYS NEVER ALWAYS ALWAYS	
Bytes 1 - 3		Description 55 55 55	Length 3 bytes

# B.1.3 EF<sub>TARU</sub> (Transparent Always Read and Update)

This is a 120 byte transparent EF for testing purposes with predefined contents.

A file identifier not allocated to ensure that the File ID is not used by any other EF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '6F 03'.

Identifier: '6FXX '			Structure: transparent		
	File size: 120 bytes		Update activity:	low	
Access Condi	tions:				
READ		ALWAYS			
UPDA	TE	ALWAYS			
ACTIV	/ATE	ALWAYS			
DEAC	TIVATE	ALWAYS			
Bytes		Description		Length	
1 - 120		FF FF		120 bytes	

### B.1.4 EF<sub>TUACP</sub> (Transparent Update Access Condition PIN)

This is a 120 byte transparent EF for testing purposes with predefined contents.

A file identifier not allocated to ensure that the File ID is not used by any other EF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '6F 05'.

	Identifier: '6FXX'		Structure: transparent		
	File size: 120 bytes		Update activity	: low	
Access Condi READ UPDA ACTIV	TE	ALWAYS PIN ALWAYS ALWAYS			
Bytes		Description		Length	
1 - 120		FF FF		120 bytes	

#### B.1.5 EF<sub>TPRU</sub> (Transparent PIN Read and Update)

This is a 120 byte transparent EF for testing purposes with predefined contents.

A file identifier not allocated to ensure that the File ID is not used by any other EF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '6F 06'.

	Identifier: '6FXX'		Structure: transparent	
	File size: 120 bytes		Update activity	: low
Access Condi	tions:			
READ		PIN		
UPDA	TE	PIN		
ACTIV	ATE	ALWAYS		
DEAC	TIVATE	ALWAYS		
Bytes		Description		Length
1 - 120		FF FF		120 bytes

#### B.1.6 EFLF4R4b

This is a linear fixed EF for testing purposes with 4 records and 4 bytes/record with predefined contents located under  $DF_{TEST}$ 

A file identifier is not allocated in order to ensure that the File ID is not used by any other EF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '6F FC'.

Identifie	r: '6F XX'		Structure: linea	ar fixed
Reco	Record length: 4 bytes		Update	activity: low
Access Conditions:				
READ	READ ALWA			
UPDATE	UPDATE ALWA		YS	
DEACTI	VATE	ALWA	YS	
ACTIVATE ALWA		YS		
Bytes		Description	n	Length
1 to 4	LF₄	4R4b test co	ntents	4 bytes

Coding:

1 <sup>st</sup> record:	A0	A1	A2	B0
2 <sup>nd</sup> record:	B0	B1	B2	A0
3 <sup>rd</sup> record:	B0	B1	B2	A0
4 <sup>th</sup> record:	A0	A1	A2	B0

# B.1.7 EF<sub>BER-TLV</sub>

This is a 120 byte BER-TLV EF for testing purposes with predefined contents.

A file identifier not allocated to ensure that the File ID is not used by any other EF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '6F 09'.

Identifie	r: '6F XX'		Stru	cture: BEF	R-TLV
Fil	File size: 10 bytes			Update	activity: low
Access Condition	ons:				
READ		ALWA	YS		
UPDATE	UPDATE		YS		
DEACTI	VATE	ALWA	YS		
ACTIVA	ACTIVATE		YS		
INCREA	INCREASE		YS		
Bytes	Description		า		Length
1 to 10	Test	F FF'		10 bytes	

#### B.1.8 EF<sub>CY4R4b</sub>

This is a cyclic EF for testing purposes with 4 records and 4 bytes/record with predefined contents located under DF<sub>TEST</sub>

A file identifier is not allocated in order to ensure that the File ID is not used by any other EF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '6F FD'.

Identifie	r: '6F XX'			Structure: cy	/clic
Reco	ord length: 4 bytes	;	Update activity: low		
Access Condition	ons:				
READ		ALWA	YS		
UPDATE		ALWAYS			
DEACTI	VATE	ALWA	YS		
ACTIVA	TE	ALWA	YS		
INCREASE A		ALWA	YS		
Bytes		۱		Length	
1 to 4	CY4	R10b test co	ontents		4 bytes

Coding:

1 <sup>st</sup> record:	A0	A1	A2	B0
2 <sup>nd</sup> record:	B0	B1	B2	A0
3 <sup>rd</sup> record:	B0	B1	B2	A0
4 <sup>th</sup> record:	A0	A1	A2	B0

# B.2 DF<sub>TESTB</sub> (Tests DF under ADF\_1)

#### B.2.1 DF identifier

A file identifier not allocated to ensure that the File ID is not used by any other DF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '7F4B'.

# B.2.2 EF<sub>TARUB</sub> (Transparent Always Read and Update B)

This is a 120 byte transparent EF for testing purposes with predefined contents.

A file identifier not allocated to ensure that the File ID is not used by any other EF defined in any of the applications listed in clause 4.4.3. The suggestion is to use '6F 04'.

	ldentifier: '6FXX'			Structure: transparent	
	File size: 120 bytes	6		Update activity	: low
Access Condit	ions:				
READ		ALWA'	YS		
UPDAT	ГЕ	ALWA'	YS		
ACTIV	ATE	ALWA'	YS		
DEACT	ΓΙVΑΤΕ	ALWA'	YS		
Bytes		De	escription		Length
1 - 120		F	F FF		120 bytes

# B.3 DF<sub>TELECOM</sub>

# B.3.1 EF<sub>RMA</sub> (Remote Management Actions)

This is a linear fixed EF for testing purposes with is a 36 byte with predefined contents.

This file is located under DF<sub>TELECOM</sub> ('7F10') as defined in ETSI TS 102 222 [9].

	Identifier: '6F53'		Structure: linear fixed				
	Record length: 36 byte	es	Update activity	: low			
Access Condi	itions:						
READ	READ ADM UPDATE ADM ACTIVATE ADM						
UPDA							
ACTIV							
DEAC	TIVATE	ADM					
Bytes		Descriptior	1	Length			
1 to 36	Tes	Test content as defined below 3					

			81	03	01	21	80	82	02	81	02	8D	0F
1 <sup>st</sup> record:	DISPLAY TEXT	04	54	6F	6F	6C	6B	69	74	20	54	65	73
	IEAI	74	20	31	FF								
		10	81	03	01	01	01	82	02	81	82	92	05
2 <sup>nd</sup> record:	REFRESH	01	3F	00	2F	E2	FF						
		FF											
		1B	81	03	01	20	00	82	02	81	03	85	09
3 <sup>rd</sup> record:	PLAY TONE	44	69	61	6C	20	54	6F	6E	65	8E	01	01
	TONE	84	02	01	05	FF							

# Annex C (normative): Secure data coding and command structure

# C.1 Commands

#### Table C.1

Command						Des	criptio	n					
	SELECT ME	: '00 A	4 00 00	02 3F	00' (n		-						
	SELECT MF: '00 A4 00 0C 02 3F 00' (no response data) SELECT DF <text> with/by FID 'd1 d2': '00 A4 00 0C 02 d1 d2' (no response data)</text>												
	SELECT EF <text> with/by FID 'e1 e2': '00 A4 00 0C 02 e1 e2' (return FCP template) - for T=0</text>												
	(Compact format)												
			uld be i	used fo	or "SEL	ECT as	case 4	" comm	nand.				
SELECT	NOTE: This should be used for "SELECT as case 4" command. SELECT EF <text> with FID 'e1 e2': '00 A4 00 04 02 e1 e2 00' (return FCP template) for T=1</text>												
	(Expanded F								<b>\</b>			, .	
				ID 'e1	e2': '00	0 A4 00	0C 02 (	e1 e2' (	no resp	onse d	ata)		
	SELECT EF <text> with FID 'e1 e2': '00 A4 00 0C 02 e1 e2' (no response data) Select Applet with AID '00 A4 04 00 LC AID' (SELECT by DF name)</text>												
	SELECT by	path: '(	0 A4 0	9 00 LO	C File_	path'							
	SELECT by	path fr	om MF:	'00 A4	08 00	LC File	e_path'						
UPDATE BINARY	UPDATE BI	NARY	with dat	a 'XX X	XX XX'	: '00 D6	00 00	03 XX X	(X XX'				
	TERMINAL	PROFI	LE sho	uld indi	cate si	upport o	f follow	ing feat	ures:				
								C					
			Item	Byt	e.bit	Termin	al Prof	ile					
			1	1.1		Profile I	Downlo	ad					
TERMINAL PROFILE			17	3.1		DISPLA	Y TEX	Т					
			21	3.5		PLAY T	ONE						
			24	3.8		REFRE	SH						
			30	4.6		SET UF	9 MENI	J					
SET STATUS	Set Status to	o lock t	he appl	et with	the AI	D: '80 F	0 40 FF	Len A	ID' -				
	'80 C2 00 00	) Lc											
	D1 XX	D1 XX											
	82 02 82 81												
ENVELOPE_SMS_PP													
		2 80 01											
	8B Y	Y	40.50					00.1			<b>.</b> .		
	8B Y 4	Y 0 05 81											der Data',
	8B Y	Y 0 05 81											
	8B Y 4 where the D	Y 0 05 81 ata is t	he Seci	ured Da	ata as	defined	in the t	est cas	e and th	ne head	der con	tains SI	PI2 = '21'
PROACTIVE	8B Y 4	Y 0 05 81 ata is t D0	he Secu 1A	ured Da	ata as	defined 01	in the t	est cas	e and th 82	ne head	der con	tains SF	PI2 = '21'
PROACTIVE COMMAND: DISPLAY	8B Y 4 where the D	Y 0 05 81 ata is t D0 0F	he Secu 1A 04	ured Da 81 54	ata as 03 6F	defined	in the t	est cas	e and th	ne head	der con	tains SI	PI2 = '21'
PROACTIVE	8B Y 4 where the D	Y 0 05 81 ata is t D0	he Secu 1A	ured Da	ata as	defined 01	in the t	est cas	e and th 82	ne head	der con	tains SF	PI2 = '21'
PROACTIVE COMMAND: DISPLAY TEXT	8B Y 4 where the D	Y 0 05 81 ata is t D0 0F	he Secu 1A 04	ured Da 81 54	ata as 03 6F	defined 01	in the t	est cas	e and th 82	ne head	der con	tains SF	PI2 = '21'
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL	8B Y 4 where the D BER-TLV:	Y 0 05 81 ata is t D0 0F 73	1A 04 74	81 81 54 20	03 03 6F 31	defined 01 6F	in the t	est case 80 6B	e and th 82 69	02 02 74	81 20	tains SF	PI2 = '21'
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY	8B Y 4 where the D	Y 0 05 81 ata is t D0 0F	he Secu 1A 04	ured Da 81 54	ata as 03 6F	defined 01	in the t	est cas	e and th 82	ne head	der con	tains SF	PI2 = '21'
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL	8B Y 4 where the D BER-TLV:	Y 0 05 81 ata is t D0 0F 73	1A 04 74	81 81 54 20	03 03 6F 31	defined 01 6F	in the t	est case 80 6B	e and th 82 69	02 02 74	81 20	tains SF	PI2 = '21'
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT	8B Y 4i where the D BER-TLV:	Y 0 05 81 ata is t 0F 73 81	1A 04 74 03	81 81 54 20 01	ata as 03 6F 31 21	defined 01 6F 80	in the t 21 6C 82	80 6B 02	e and th 82 69 82	02 74 81	81 20 83	02 54 01	PI2 = '21' 8D 65
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY	8B Y 4 where the D BER-TLV:	Y 0 05 81 ata is t D0 0F 73	1A 04 74	81 81 54 20	03 03 6F 31	defined 01 6F	in the t	est case 80 6B	e and th 82 69	02 02 74	81 20	tains SF	PI2 = '21'
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE	8B Y 4i where the D BER-TLV:	Y 0 05 81 ata is t D0 0F 73 81 81	he Sect 1A 04 74 03	81 81 54 20 01 81	ata as 03 6F 31 21 03	01 6F 80 80	in the t 21 6C 82 20	est case 80 6B 02	e and th 82 69 82 82	02 74 81	81 83 83 83	02 54 01 03	PI2 = '21' 8D 65 00 85
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY	8B Y 4i where the D BER-TLV:	Y 0 05 81 ata is t 00 0F 73 81 81 00 09	he Sect 1A 04 74 03 1B 44	81 81 54 20 01 81 69	ata as 03 6F 31 21 03 61	01 6F 80 80 01 6C	in the t 21 6C 82 20	est case 80 6B 02	e and th 82 69 82 82	02 74 81	81 83 83 83	02 54 01 03	PI2 = '21' 8D 65 00 85
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY	8B Y 4i where the D BER-TLV:	Y 0 05 81 ata is t 00 0F 73 81 81 00 09	he Sect 1A 04 74 03 1B 44	81 81 54 20 01 81 69	ata as 03 6F 31 21 03 61	01 6F 80 80 01 6C	in the t 21 6C 82 20	est case 80 6B 02	e and th 82 69 82 82	02 74 81	81 83 83 83	02 54 01 03	PI2 = '21' 8D 65 00 85
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE	8B Y 4i where the D BER-TLV:	Y 0 05 81 ata is t 00 0F 73 81 81 00 09	he Sect 1A 04 74 03 1B 44	81 81 54 20 01 81 69	ata as 03 6F 31 21 03 61	01 6F 80 80 01 6C	in the t 21 6C 82 20	est case 80 6B 02	e and th 82 69 82 82	02 74 81	81 83 83 83	02 54 01 03	PI2 = '21' 8D 65 00 85
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE TERMINAL	8B Y 4i where the D BER-TLV: BER-TLV:	Y 0 05 81 ata is t 0F 73 81 81 00 09 01	he Sect 1A 04 74 03 1B 44 84	81 54 20 01 81 69 02	ata as 03 6F 31 21 03 61 01	01           6F           80           01           6C           05	in the t 21 6C 82 20 20	est cas 80 6B 02 00 54	e and th 82 69 82 82 6F	02 74 81 02 6E	81 20 83 83 81 65	02 54 01 03 8E	PI2 = '21' 8D 65 00 85 01
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE TERMINAL RESPONSE: PLAY	8B Y 4i where the D BER-TLV: BER-TLV:	Y 0 05 81 ata is t 0F 73 81 81 00 09 01	he Sect 1A 04 74 03 1B 44 84	81 54 20 01 81 69 02	ata as 03 6F 31 21 03 61 01	01           6F           80           01           6C           05	in the t 21 6C 82 20 20	est cas 80 6B 02 00 54	e and th 82 69 82 82 6F	02 74 81 02 6E	81 20 83 83 81 65	02 54 01 03 8E	PI2 = '21' 8D 65 00 85 01
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE TERMINAL RESPONSE: PLAY TONE	8B Y 4i where the D BER-TLV: BER-TLV: BER-TLV:	Y 0 05 81 ata is t 0F 73 81 81 09 01 81	he Sect 1A 04 74 03 1B 44 84 03 03	81 54 20 01 81 69 02 01	ata as 03 6F 31 21 03 61 01 20	defined 01 6F 80 01 6C 05 00 00	in the t 21 6C 82 20 20 82	est cas 80 6B 02 00 54 02 02	e and th 82 69 82 82 6F 82 82 6F	e head 02 74 81 02 6E 81	81 20 83 83 83 83 83 83	02 54 01 03 8E 01	PI2 = '21' 8D 65 00 85 01
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE TERMINAL RESPONSE: PLAY TONE PROACTIVE	8B Y 4i where the D BER-TLV: BER-TLV: BER-TLV:	Y 0 05 81 ata is t 0F 73 81 81 09 01 81 81	he Sect 1A 04 74 03 1B 44 84 03 10	81 54 20 01 81 69 02 01 81 81	ata as 03 6F 31 21 03 61 01 20 20	defined 01 6F 80 01 6C 05 00 00 01	in the t 21 6C 82 20 20 20 82 82	est cas 80 6B 02 00 54 02 02	e and th 82 69 82 82 6F 82 82 6F	e head 02 74 81 02 6E 81	81 20 83 83 83 83 83 83	02 54 01 03 8E 01	PI2 = '21' 8D 65 00 85 01
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE TERMINAL RESPONSE: PLAY TONE PROACTIVE COMMAND: REFRESH TERMINAL RESPONSE:	8B Y 4i where the D BER-TLV: BER-TLV: BER-TLV:	Y 0 05 81 ata is t 0F 73 81 81 09 01 81 81	he Sect 1A 04 74 03 1B 44 84 03 10	81 54 20 01 81 69 02 01 81 81	ata as 03 6F 31 21 03 61 01 20 20	defined 01 6F 80 01 6C 05 00 00 01	in the t 21 6C 82 20 20 20 82 82	est cas 80 6B 02 00 54 02 02	e and th 82 69 82 82 6F 82 82 6F	e head 02 74 81 02 6E 81	81 20 83 83 83 83 81 65	02 54 01 03 8E 01	PI2 = '21' 8D 65 00 85 01
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE TERMINAL RESPONSE: PLAY TONE PROACTIVE COMMAND: REFRESH TERMINAL RESPONSE: REFRESH	8B Y 44 where the D BER-TLV: BER-TLV: BER-TLV: BER-TLV: BER-TLV:	Y 0 05 81 ata is t 00 0F 73 81 81 00 09 01 81 81 00 05	he Sect 1A 04 74 03 1B 44 84 03 10	81 54 20 01 81 69 02 01 81 81	ata as 03 6F 31 21 03 61 01 20 20	defined 01 6F 80 01 6C 05 00 00 01	in the t 21 6C 82 20 20 20 82 82	est cas 80 6B 02 00 54 02 02	e and th 82 69 82 82 6F 82 82 82	e head 02 74 81 02 6E 81	81 20 83 83 83 83 81 65	02 54 01 03 8E 01	PI2 = '21' 8D 65 00 85 01
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE TERMINAL RESPONSE: PLAY TONE PROACTIVE COMMAND: REFRESH TERMINAL RESPONSE: REFRESH READ BINARY	8B Y 44 where the D BER-TLV: BER-TLV: BER-TLV: BER-TLV: BER-TLV:	Y 0 05 81 ata is t 00 0F 73 81 81 00 09 01 81 81 00 05	he Sect 1A 04 74 03 1B 44 84 03 10	81 54 20 01 81 69 02 01 81 81	ata as 03 6F 31 21 03 61 01 20 20	defined 01 6F 80 01 6C 05 00 00 01	in the t 21 6C 82 20 20 20 82 82	est cas 80 6B 02 00 54 02 02	e and th 82 69 82 82 6F 82 82 82	e head 02 74 81 02 6E 81	81 20 83 83 83 83 81 65	02 54 01 03 8E 01	PI2 = '21' 8D 65 00 85 01
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE TERMINAL RESPONSE: PLAY TONE PROACTIVE COMMAND: REFRESH TERMINAL RESPONSE: REFRESH	8B Y 44 where the D BER-TLV: BER-TLV: BER-TLV: BER-TLV: BER-TLV: BER-TLV:	Y 0 05 81 ata is t 00 0F 73 81 81 00 09 01 81 81 00 05	he Sect 1A 04 74 03 1B 44 84 03 10 01	81 54 20 01 81 69 02 01 81 3F	ata as 03 6F 31 21 03 61 01 20 03 00	defined 01 6F 80 01 6C 05 00 00 01	in the t 21 6C 82 20 20 20 82 82	est cas 80 6B 02 00 54 02 02	e and th 82 69 82 82 6F 82 82 82	e head 02 74 81 02 6E 81	81 20 83 83 83 83 81 65	02 54 01 03 8E 01	PI2 = '21' 8D 65 00 85 01
PROACTIVE COMMAND: DISPLAY TEXT TERMINAL RESPONSE: DISPLAY TEXT PROACTIVE COMMAND: PLAY TONE TERMINAL RESPONSE: PLAY TONE PROACTIVE COMMAND: REFRESH TERMINAL RESPONSE: REFRESH READ BINARY	8B Y 44 where the D BER-TLV: BER-TLV: BER-TLV: BER-TLV: BER-TLV:	Y 0 05 81 ata is t 00 0F 73 81 81 00 09 01 81 81 00 05	he Secu 1A 04 74 03 1B 44 84 03 10 01 10 01 41 01 01	arred Da           81           54           20           01           81           69           02           01           81           3F           rrrent m	ata as 03 6F 31 21 03 61 01 20 03 00 00 00	defined 01 6F 80 01 6C 05 00 01 2F	in the t 21 6C 82 20 20 20 82 82	est cas 80 6B 02 00 54 02 02	e and th 82 69 82 82 6F 82 82 82	e head 02 74 81 02 6E 81	81 20 83 83 83 83 81 65	02 54 01 03 8E 01	PI2 = '21' 8D 65 00 85 01

Command	Description
SEARCH RECORD	Description VOD A2 01 04 LC Data
INCREASE	'80 32 00 00 LC Data 00'
SET DATA	00 DB 00 80 LC Data'
RETRIEVE DATA	00 CB 00 P2 01 XX 00'with XX= Tag value
ACTIVATE FILE	00 CB 00 P2 01 XX 00 with XX= Tag value
DEACTIVATE FILE	00 44 00 00 00 (activating current file)
VERIFY PIN	00 04 00 00 00 deactivating current nie
CHANGE PIN	00 20 00 01 08 PIN
	00 28 00 01 08 PIN'
	100 26 00 01 08 PIN'
	00 2C 00 01 10 Data' with Data = PINtoUnblock  PINnew
DELETE	'80 E4 00 00 12 4F 10 AID' CREAT FILE EFxx: '0X E0 00 00 14 62 13 82 02 41 21 83 02 EF1 EF2 8A 01 05 8C 03 03 00 00
CREATE FILE	80 01 05' where EF1 EF2 is the FID
DELETE FILE	DELETE FILE EF <sub>XX</sub> : 0X E4 00 00 02 EF1 EF2 where EF1 EF2 is the FID
RESIZE FILE	RESIZE FILE EFxx: '8X D4 00 00 09 62 07 83 02 EF1 EF2 80 01 03'where EF1 EF2 is the FID
INSTALL	INSTALL[for load]: '80 E6 02 00 LC Data' with Data = '10 AID 00 00 XX Params 00' where XX = length of Params field ('00' if no Params) and Params are the Systems Specific Parameters as defined in the test case INSTALL[for install]: '80 E6 04 00 LC 10 ELF AID 10 EM AID 10 Application AID 03 XX XX XX (privileges) length [C9 0A 81 02 02 55 82 01 C8 83 01 F8 Params] 00' where Params are the parameters as
	defined in the test INSTALL[for install and make selctable]: FFS LOAD: '80 E6 P1 P2 LC C4 Len Data, where Len is the length of Data and the Data is the Load
LOAD	File Data Block LOAD with DES DAP: '80 E6 P1 P2 LC E2 YY 4F XX AID C3 08 Sign C4 Len Data, where Sign is the Load File Data Block DES Signature, XX is the length of the AID of the Security Domain with DAP verification privilege, YY is the length of DAP block, i.e. YY=08+XX, Len is the length of Data, Data is the Load File Data Block
GET RESPONSE	'00 C0 00 00 Len' where Len is the length of data available
GET STATUS	'80 F2 P1 02 02 4F 00 00'
GET DATA	'80 CA P1 P2 00'
STORE DATA	STORE DATA with arbitrary value (DGI format): '80/84 E2 88 00 13 00 70 10 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F ' STORE DATA with Forbidden Load File List: '80/84 E2 80 00 LC BE XX 4F Len 3rdSD-AID 4F Len FLF-AID', 3rdSD is Third Party Security Domain AID and FLF-AID is Forbidden Executable Load File #1 AID
PUT KEY	PUT KEY command with new 3DES 3 keys: '84 D8 00 81 Len KVN FF 82 18 XXXX 03 YY YY YY 01 18 01 00 FF 82 18 XXXX 03 YY YY YY 01 14 01 00 FF 82 18 XXXX 03 YY YY YY 01 48 01 00 MAC 00', where XXXX is the coded key value, YY YY YY is the key check value and the KVN (key version number) should be chosen from the set of possible version numbers that are not already in use. PUT KEY command with new 3DES 2 keys: '84 D8 00 81 Len KVN FF 82 10 XXXX 03 YY YY YY 01 18 01 00 FF 82 10 XXXX 03 YY YY YY 01 14 01 00 FF 82 10 XXXX 03 YY YY YY 01 48 01 00 MAC 00', where XXXX is the coded key value, YY YY YY is the key check value and the KVN (key version number) should be chosen from the set of possible version numbers that are not already in use. PUT KEY command with new DES keys: '84 D8 00 81 Len KVN FF 83 08 XXXX 03 YY YY YY 01 18 01 00 FF 83 08 XXXX 03 YY YY YY 01 14 01 00 FF 83 08 XXXX 03 YY YY YY 01 18 01 00 FF 83 08 XXXX 03 YY YY YY 01 14 01 00 FF 83 08 XXXX 03 YY YY YY 01 18 01 00 FF 83 08 XXXX 03 YY YY YY 01 14 01 00 FF 83 08 XXXX 03 YY YY YY 01 18 01 00 MAC 00', where XXXX is the coded key value, YY YY YY is the key check value and the KVN (key version number) should be chosen from the set of possible version numbers that are not already in use PUT KEY command with existing DES keys '84 D8 KVN 01 Len FF 83 08 XXX 03 YY YY YO 11 8 01 00 MAC 00', where XXXX is the coded key value, YY YY YY is the key check value and the KVN (key version number) should be the one that already exists. PUT KEY command with new 16 bytes AES key:

Command	Description
	YY 01 14 01 00 FF 88 10 XXXX 03 YY YY YY 01 48 01 00 MAC 00', where XXXX is the coded
	key value, YY YY YY is the key check value and the KVN (key version number) should be chosen
	from the set of possible version numbers that are not already in use
	PUT KEY command with new 24 bytes AES key
	'84 D8 00 81 Len KVN FF 88 18 XXXX 03 YY YY YY 01 18 01 00 FF 88 18 XXXX 03 YY YY
	YY 01 14 01 00 FF 88 18 XXXX 03 YY YY YY 01 48 01 00 MAC 00', where XXXX is the coded
	key value, YY YY YY is the key check value and the KVN (key version number) should be chosen
	from the set of possible version numbers that are not already in use
	PUT KEY command with new 32 bytes AES key
	'84 D8 00 81 Len KVN FF 88 20 XXXX 03 YY YY YY 01 18 01 00 FF 88 20 XXXX 03 YY YY
	YY 01 14 01 00 FF 88 20 XXXX 03 YY YY YY 01 48 01 00 MAC 00', where XXXX is the coded
	key value, YY YY YY is the key check value and the KVN (key version number) should be chosen
	from the set of possible version numbers that are not already in use
	PUT KEY command with 24 bytes AES (error)
	'84 D8 00 81 Len KVN FF 88 18 XXXX 03 YY YY YY 01 18 01 00 FF 88 18 XXXX 03 YY YY
	YY 01 14 01 00 FF 88 10 XXXX 03 YY YY YY 01 48 01 00 MAC 00', where XXXX is the coded
	key value, YY YY YY is the key check value and the KVN (key version number) should be chosen
	from the set of possible version numbers that are not already in use
	PUT KEY command with 32 bytes AES (error)
	'84 D8 00 81 Len KVN FF 88 20 XXXX 03 YY YY YY 01 18 01 00 FF 88 20 XXXX 03 YY YY
	YY 01 14 01 00 FF 88 10 XXXX 03 YY YY YY 01 48 01 00 MAC 00', where XXXX is the coded
	key value, YY YY YY is the key check value and the KVN (key version number) should be chosen
	from the set of possible version numbers that are not already in use.

NOTE: All case 4 commands should be sent without last "00" (Le byte) if Compact Format is used.

# C.2 Remote APDU Format

#### C.2.1 Compact Remote Application Data Format

A command string contain a single command; APDU\_1:

CLA\_1 INS\_1 P1\_1 P2\_1 P3\_1 Data\_1

EXAMPLE 1:

• '00 A4 00 0C 02 d1 d2'

Command string contain a sequence of 2 commands; APDU\_1 APDU\_2:

CLA\_1 INS\_1 P1\_1 P2\_1 P3\_1 Data\_1 CLA\_2 INS\_2 P1\_2 P2\_2 P3\_2 Data\_2

EXAMPLE 2:

• '00 A4 00 04 02 e1 e2 00 B0 00 00 00'

#### C.2.2 Expanded Remote Application Data Format

#### C.2.2.1 C-APDU TLV

Definite length coding

```
'AA LEN
22 LEN APDU1
...+
22 LEN APDUx'
```

Indefinite length coding

'AE 80

22 LEN APDU1 ... 22 LEN APDUx 00 00'

#### C.2.2.2 Immediate Action TLV

Definite length coding

• Normal format

'AA LEN

81 LEN PRO\_CMD1

81 LEN PRO\_CMDx'

• Referenced format

'AA LEN

81 01 81 22 LEN PRO\_CMD1,

or

81 01 82 22 LEN PRO\_CMD2 or

81 01 YX (see note2)'

Indefinite length coding

• Normal format

'AE 80

81 LEN PRO\_CMD1 ... 81 LEN PRO\_CMDx' 00 00'

• Referenced format

'AE 80

81 01 81 22 LEN PRO\_CMD1, 81 01 82 22 LEN PRO\_CMD2, 81 01 YX (see note 2) 00 00'

PRO\_CMDx shall be a set of COMPREHENSION-TLV data objects constituting one of the allowed proactive commands specified for immediate action; i.e. DISPLAY TEXT, PLAY TONE or REFRESH.

NOTE 1: Void.

NOTE 2: This byte has value between '01' to '7F': Reference to a record in  $EF_{RMA}$ .

#### C.2.2.3 Error Action TLV

Definite length coding:

• Normal format

'AA LEN

82 LEN PRO\_CMD1'

Referenced format

'AA LEN

82 01 YX (see note 2)'

No Action

'AA 02

82 00'

Indefinite length coding:

• Normal format

'AE 80

82 LEN PRO\_CMD1 00 00'

Referenced format

'AE 80

82 01 YX (see note 2) 00 00'

```
    No Action
```

'AE 02

82 00 00 00'

NOTE 1: PRO CMDx should be one of the allowed proactive commands specified for immediate action; i.e. DISPLAY TEXT or PLAY TONE.

NOTE 2: This byte has value between '01' to '7F': Reference to a record in  $EF_{RMA}$ .

#### C.2.2.4 Script Chaining TLV

Definite length coding:

'AA len 83 01 XX CMD TLV1 .... CMD TLVx' with 'XX'=Script Chaining Value

Indefinite length coding:

'AE 80 83 01 XX 00 00' with 'XX'=Script Chaining Value

Annex D (informative): Full command structure sample

# D.1 Formatted SMS with PoR required - default

FFS.

D.2 CAT-TP - default

FFS.

D.3 HTTPS - default

FFS.

## Annex E (normative): AID and TAR values

# E.1 UICC shared file system remote file management application

Description	TAR
Compact Format as defined in ETSI TS 101 220 [6]	TAR1: 'B0 00 00'
Expanded Format or automatic data format detection as defined in ETSI TS 101 220 [6]	TAR3: 'B0 01 20'

# E.2 ADF remote file management application

Description	TAR
Compact Format as defined in ETSI TS 101 220 [6]	TAR2: 'B0 00 01'
For Expanded Format or automatic data format detection as defined in ETSI TS 101 220 [6]	TAR4: 'B0 01 40'

# E.3 AID and TAR

Applet AID	AID	TAR	Description
AID1	FFS	FFS	Toolkit Test Applet
AID2			SIM Toolkit application with menu
AID3	FFS	FFS	UICC Toolkit application with menu
AID4			SIM Toolkit application with menu and UICC Toolkit application with menu combined
AID5	FFS	FFS	UICC Toolkit Admin Access application
AID6			SIM Toolkit Access application to update EFTARU, EFTNU, EFTUACP
AID7			SIM Toolkit Access application to update EFTARU
AID8			UICC Toolkit Access application to update EFTARU, EFTNU, EFTUACP
AID9			UICC Toolkit Access application to update EFTARU
AID10			SIM Toolkit application with Proactive Session: Check Application Priority
AID11			SIM Toolkit application with Proactive Session: Check Application Priority
AID12			UICC Toolkit application with Proactive Session: Check Application Priority
AID13	FFS	FFS	UICC Toolkit application with Proactive Session: Check Application Priority
AID14	FFS	FFS	SIM Toolkit application with menu
AID15			UICC Toolkit application with menu
AID16	FFS	FFS	SIM Toolkit application with menu
AID17	FFS	FFS	UICC Toolkit application with menu
AID18	FFS	FFS	UICC Toolkit Access and Admin Access application with menu to update EFTARUB
AID19	FFS	FFS	Contactless application - Reader mode typeA
AID20	FFS	FFS	Contactless application - Reader mode typeB
AID21			Contactless application - Card Emulation
AID30	FFS	FFS	UICC Toolkit application, sends proactive command for DISPLAY TEXT
AID31			UICC Toolkit application, sends proactive command to PLAY TONE
AID32			UICC Toolkit application, sends proactive command to REFRESH
AID33	FFS	FFS	UICC Toolkit application, starts proactive session with data defined in EF <sub>RMA</sub>
AID34			UICC Toolkit application, sends Immediate Action Error upon DISPLAY TEXT
AID35	FFS	FFS	UICC Toolkit application, starts proactive session with DISPLAY TEXT on error
AID36	FFS	FFS	UICC Toolkit application, starts proactive session with PLAY TONE on error
AID37			UICC Toolkit application, starts proactive session when triggered
AID40	FFS	FFS	Application Provider SD

# Annex F (informative): FFS requirements

The following is a compilation of requirements of the present document which are not verified in the present document. This compilation is for information only.

A verification of the listed requirements identified in ETSI TS 102 226 [1], clause 4 currently is FFS:

RQ01_	_0006
RQ01_	_0010
RQ01_	_0011

A verification of the listed requirements identified in ETSI TS 102 226 [1], clause 5 currently is FFS:

RQ02_0106
RQ02_0107
RQ02_0403
RQ02_0404
RQ02_0505
RQ02_0506
RQ02_0507
RQ02_0703
RQ02_0705
RQ02_0815
RQ02_0816

A verification of the listed requirements identified in ETSI TS 102 226 [1], clause 7 currently is FFS:

RQ04_	_0105
RQ04_	_0106
RQ04_	_0501

A verification of the listed requirements identified in ETSI TS 102 226 [1], clause 8 currently is FFS:

RQ05_0104
RQ05_0303
RQ05_0304
RQ05_0305
RQ05_0602
RQ05_0603
RQ05_0604
RQ05_0607
RQ05_0804
RQ05_0805

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RQ05\_0806

RQ05\_1103

RQ05\_1105

RQ05\_1504

RQ05\_1507

RQ05\_2102

RQ05\_2201

RQ05\_3202

RQ05\_3204

RQ05\_3403

RQ05\_3502

RQ05\_3701

RQ05\_3803

RQ05\_3804

A verification of the listed requirements identified in ETSI TS 102 226 [1], clause 9 currently is FFS:

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RQ06\_0601 RQ06\_0803 RQ06\_0804

RQ06\_0805

RQ06\_0807

RQ06\_0902

RQ06\_0903

RQ06\_0904

RQ06\_0905

RQ06\_0906

RQ06\_0907

RQ06\_0908

RQ06\_0909

RQ06\_0910

RQ06\_0911

RQ06\_1001

RQ06\_1002

RQ06\_1003

RQ06\_1004

RQ06\_1005

RQ06\_1101 RQ06\_1102 RQ06\_1103 RQ06\_1104 RQ06\_1105

RQ06\_1106

RQ06\_1201

A verification of the listed requirements identified in ETSI TS 102 226 [1], clause 10 currently is FFS:

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RQ07\_0201

RQ07\_0301

RQ07\_0302

RQ07\_0303

RQ07\_0304

RQ07\_0305

RQ07\_0306

RQ07\_0307

RQ07\_0308

RQ07\_0401

RQ07\_0402

RQ07\_0403

RQ07\_0501

# Annex G (informative): Core specification version information

Unless otherwise specified, the versions of ETSI TS 102 226 [1] from which conformance requirements have been extracted are as follows.

Release	Latest version from which conformance requirements have been extracted
11.1	V11.2.0
11.2	V11.2.0

# Annex H (informative): Change History

Change history									
Date	Meeting	Plenary Doc	CR	Rev		Subject/Comment	Old	New	
2018	SCP-84	SCP(18)000153r1	6	1	F	Correction of the length in the expected Response Scripting Template	11.0.0	11.1.0	
2018	SCP-84	SCP(18)000154	7		F	Correction of the number of executed command and response TAG in the expected response	11.0.0	11.1.0	
2018	SCP-84	SCP(18)000155	8		F	Correction of increase and install [for install] commands	11.0.0	11.1.0	
2018	SCP-84	SCP(18)000156	9		F	Correction of the SW for missing verify pin	11.0.0	11.1.0	
2018	SCP-84	SCP(18)000157	10		F	Remove Select as case 4	11.0.0	11.1.0	
2018	SCP-84	SCP(18)000158r1	11	1	F	Correction of wrong definition of EFLF4R4b	11.0.0	11.1.0	
2018		SCP(18)000160	13		F	Correction for Search Record command with wrong P1	11.0.0	11.1.0	
2018		SCP(18)000161	14		F	Correction of wrong number of executed commands	11.0.0	11.1.0	
2018	SCP-84	SCP(18)000162	15		F	Add select by path from MF	11.0.0	11.1.0	
2018		SCP(18)000163	16		F	Addition of missing additional data for Delete command	11.0.0	11.1.0	
2018		SCP(18)000164	17		F	Addition of "unknown application" missing in case of HTTPS	11.0.0	11.1.0	
2018		SCP(18)000165	18		F	Send the put key command to SD	11.0.0	11.1.0	
2018		SCP(18)000166r1	19	1	F	GET STATUS command sent to SD	11.0.0	11.1.0	
2018	SCP-84	SCP(18)000167r1	20	1	F	Add Cyclic file for Increase command tests	11.0.0	11.1.0	
2018		SCP(18)000168	21		F	Correction of wrong number of expected commands	11.0.0	11.1.0	
2018	SCP-85	SCP(18)000223	22		F	Clarification on Note about HTTP protocol	11.0.0	11.1.0	
2018	SCP-85	SCP(18)000224r1	23		F	Correction of length in the expected response AB tag	11.0.0	11.1.0	
2018	SCP-85	SCP(18)000225	24		F	Correction of EFRMA	11.0.0	11.1.0	
2016	SCP-73	SCP(16)000075	1		F	Definition of Compact Remote Application Data Format in Annex C.2.1	11.1.0	11.2.0	
2016	SCP-73	SCP(16)000076	2		D	Update the FFS requirements list in Annex F	11.1.0	11.2.0	
2016	SCP-73	SCP(16)000077	3		F	Correction of command definition in Annex C.1	11.1.0	11.2.0	
2016	SCP-73	SCP(16)000078r1	4	1	F	Definition of option "ISD with DAP verification privilege" used for test case 6.5.4.1	11.1.0	11.2.0	
2018	SCP-73	SCP(16)000079	5		В	Addition of test cases for DAP signature	11.1.0	11.2.0	
2018		SCP(18)000159r1	12		F	Missing GET RESPONSE command	11.1.0	11.2.0	
2021		SCP(21)000095	25		F	Test corrections for Immediate Action Response in the tests 6.2.2.7 and 6.2.2.10	11.1.0	11.2.0	
2021		SCP(21)000203	26		F	Make UICC Shared File System RFM application optional	11.1.0	11.2.0	
2021		SCP(21)000205	28		F	Miscellaneous corrections	11.1.0	11.2.0	
2021	SCP-103	SCP(21)000206	29		F	Correction of options for test cases for DAP signature	11.1.0	11.2.0	
2021	SCP-103	SCP(21)000220r1	30	1	F	Deletion of normative text from an informative Annex F	11.1.0	11.2.0	

Document history							
V11.0.0	May 2016	Publication					
V11.1.0	March 2019	Publication					
V11.2.0	February 2022	Publication					