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Keywords

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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 SCP 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 http://docbox.etsi.org/Reference.

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

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".
[3]	ETSI TS 102 221: "Smart Cards; UICC-Terminal interface; Physical and logical characteristics".
[4]	ETSI TS 102 223: "Smart Cards; Card Application Toolkit (CAT) (Release 9)".
[5]	GlobalPlatform: "Card Specification Version 2.2.1".
NOTE:	See <u>http://www.globalplatform.org/</u> .
[6]	ETSI TS 101 220: "Smart Cards; ETSI numbering system for telecommunication application providers".
[7]	ETSI TS 102 241: "Smart Cards; UICC Application Programming Interface (UICC API) for Java Card (TM)".
[8]	GlobalPlatform: "GlobalPlatform Card Specification Version 2.0.1".
NOTE:	See <u>http://www.globalplatform.org/</u> .
[9]	ETSI TS 102 222: "Integrated Circuit Cards (ICC); Administrative commands for telecommunications applications".
[10]	ETSI TS 123 048: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Security mechanisms for the (U)SIM application toolkit; Stage 2 (3GPP TS 23.048)".
[11]	ETSI TS 102 127: "Smart Cards; Transport protocol for CAT applications; Stage 2".
[12]	ETSI TS 143 019: "Digital cellular telecommunications system (Phase 2+); Subscriber Identity Module Application Programming Interface (SIM API) for Java Card; Stage 2 (3GPP TS 43.019)".
[13]	FIPS-197 (2001): "Advanced Encryption Standard (AES)".
NOTE:	See 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: See 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: See <u>http://csrc.nist.gov/publications/nistpubs/</u>.
- [16] GlobalPlatform: "Card UICC Configuration", Version 1.0.1.
- NOTE: See http://www.globalplatform.org/.
- [17] ETSI TS 102 588: "Smart Cards; Application invocation Application Programming Interface (API) by a UICC webserver for Java Card[™] platform".
- [18] GlobalPlatform: "Confidential Card Content Management Card Specification v2.2 Amendment A V1.0.1".
- NOTE: See <u>http://www.globalplatform.org/</u>.
- [19] GlobalPlatform: "Card Specification Version 2.2, Amendment B" Version 1.1.
- NOTE: See <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: See <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: See <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: See http://www.globalplatform.org/.
- [26] Oracle "Application Programming Interface, Java Card[™] Platform, 3.0.1 Classic Edition".
- [27] Oracle "Runtime Environment Specification, Java Card[™] Platform, 3.0.1 Classic Edition".
- [28] Oracle "Virtual Machine Specification Java CardTM Platform, 3.0.1 Classic Edition".
- NOTE: Oracle Java CardTM Specifications can be downloaded at <u>http://www.oracle.com/technetwork/java/javame/javacard/download/overview/index.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.

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- In the case of a reference to a TC SCP 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 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ETSI TS 102 226 [1] 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 Abbreviations

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

ACK	ACKnowledge
ADD	Access Domain Data
ADF	Application Data File
ADP	Access Domain Parameter
AES	Advanced Encryption Standard
AID	Application Identifier
APDU	Application Protocol Data Unit
API	Application Programming Interface
APSD	Application Provider Security Domain
BER-TLV	Basic Encoding Rules - Tag, Length, Value
BIP	Bearer Independent Protocol
C-APDU	Command Application Protocol Data Unit
CASD	Controlling Authority Security Domain
CBC	Cell Broadcast Centre
CLA	Class
CMAC	Cipher-based Message Authentication Code
DAP	Data Authentication Pattern
DEK	Data Encryption Key
DES	Data Encryption Standard
DF	Directory File
ECB	Electronic Code Book
ECKA	Elliptic Curve Key Agreement algorithm
ECKA-	EG ElGamal ECKA
EF	Elementary File
HTTP	HyperText Transfer Protocol
HTTPS	HyperText Transfer Protocol Secure
ICCID	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

3.3 Formats

3.3.1 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	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 ysupported by the implementation.N or nnot 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.

3.3.2 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 following 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.

3.3.3 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.
0	optional - the capability may be supported or not.
N/A	not applicable - in the given context, it is impossible to use the capability.
Х	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 3.3 for the format of table 4.1.

ltem	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	0		O_P1_ADD_COM
	for command GET STATUS; i.e. setting more than one bit			
	of b5 to b8.			

Table 4.1: Options

4.1.2 Applicability table

Table 4.2 specifies the applicability of each test case to the device under test. See clause 3.3 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	М	
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	М	
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	Rel-11	М	
6.2.2.14	Test case 14: A command session with Error Action TLV Structure with indefinite length coding - Referenced format	Rel-11	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	М	
6.4.1.2	Test case 2: A command session with multiple commands (SELECT, UPDATE BINARY, READ BINARY).	Rel-11	М	
6.4.1.3	Test case 3: A command session with multiple commands (SEARCH RECORD, UPDATE RECORD, INCREASE, READ RECORD)	Rel-11	М	
6.4.1.4	Test case 4: A command session with multiple commands (SET DATA, RETRIEVE DATA).	Rel-11	М	

Table 4.2 a): Applicability of tests

Clause	Test case number and description	Release	Rel-11 UICC	Support
6.4.1.5	Test case 5: A command session with multiple commands (ACTIVATE FILE, DEACTIVATE FILE)	Rel-11	М	
6.4.1.6	Test case 6: A command session with multiple commands (VERIFY PIN, CHANGE PIN).	Rel-11	М	
6.4.1.7	Test case 7: A command session with multiple commands (DISABLE PIN, ENABLE PIN).	Rel-11	М	
6.4.1.8	Test case 8: A command session with multiple commands (UNBLOCK PIN).	Rel-11	М	
6.4.1.9	Test case 5: 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	
5.5.2.1	Test case 1: SET STATUS command within a command session	Rel-11	M	
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	
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	
3.5.3.2.12	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	

Clause	Test case number and description	Release	Rel-11 UICC	Support
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	
6.5.3.2.28	Test case 28: INSTALL[for install] of SIM Toolkit Applications with different Priority levels	Rel-11	М	
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	

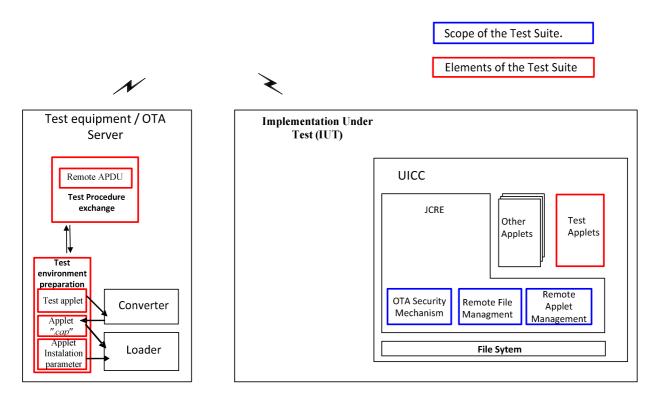
Clause	Test case number and description	Release	Rel-11 UICC	Support
6.5.3.2.39	Test case 39: INSTALL[for install] for contactless	Rel-11	C004	
	application with Reader mode protocol data type B			
6.5.3.2.40	Test case 40: INSTALL[for install] for contactless application with Card Emulation mode	Rel-11	М	
6.5.4.1	Test case 1: LOAD with DES for DAP verification	Rel-11	М	
6.5.5.1	Test case 1: PUT KEY - create new 3DES 2 keys	Rel-11	М	
6.5.5.2	Test case 2: PUT KEY - create new 3DES 3 keys	Rel-11	М	
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	М	
6.5.5.5	Test case 5: PUT KEY - create new 24 bytes AES keys	Rel-11	М	
6.5.5.6	Test case 6: PUT KEY - create new 32 bytes AES keys	Rel-11	М	
6.5.6.1	Test case 1: GET STATUS with different P1 values	Rel-11	М	
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	М	
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	

Table 4.2 b): Conditional items referenced by table 4.2 a)

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

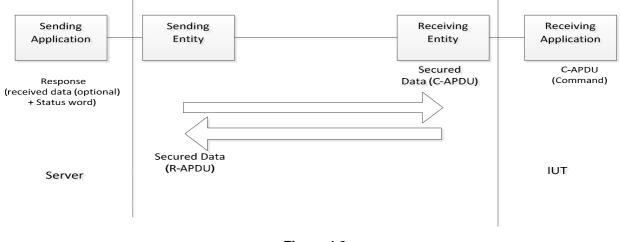
4.2 Test environment description

The general architecture for the test environment is:





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
		The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS	

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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, 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.

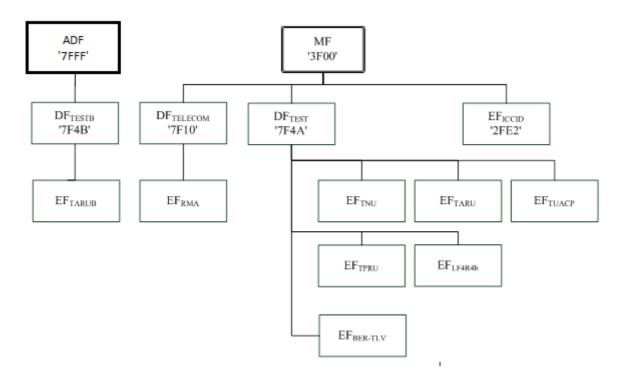


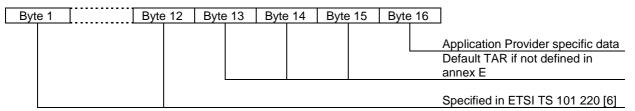
Figure 4.3

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



TAR coding (3 bytes / 24 bits):

b1	b4	b5	b8	b9	b	16		b17	b24	4
										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[™] Software Development Kit

Java CardTM software development kit (SDK) version supported by Java Card 3.0.1 specifications ([26], [27] and [28]) is 1.5.

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.
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: RQ0	1 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.
		set to '01' if one command was executed within the command script, '02' if two
Comm	ianus were e	xecuted, etc.

RQ number	Clause	Description		
RQ02_0301	5.2.1	For Expanded Remote command structure, the "Secured data" sent to a Remote		
			ation shall be a BER-TLV data object formatted according to the	
		table below for defini	te length coding:	
		Length in bytes	Name	
		1	Command Scripting template tag for definite length coding	
			Length of Command Scripting template tag for definite rength coding	
		A	Command TLV	
		В	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	
		С	Command TLV	
		2	End of content indicator (value '00 00')	
			TIM is defined in success A	
	5.2.1		TLV is defined in annex A. ent application command string may contain a single or several	
RQ02_0302	5.2.1	Command TLVs.	en application command string may contain a single of several	
RQ02_0303	5.2.1		is a C-APDI Lit shall contain a remote management command	
RQ02_0303	5.2.1	If the Command TLV is a C-APDU it shall contain a remote management command If the command TLV is an Immediate Action TLV it shall contain a proactive		
	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 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.
		ified in the present document for some C-APDUs. Further tests on TLV structure

RQ number	Clause	Description			
RQ02_0501	5.2.1.2	If the normal format is used for the Immediate Action TLV it shall be formatted as:			
			News		
		Length in bytes	Name		
			Immediate Action tag (see annex A)		
			Length of Immediate Action = $A > 1$		
		A	Set of COMPREHENSION-TLV data objects		
RQ02_0502	5.2.1.2	If the referenced format is us	ed 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 _{RMA}		
			'81': Proactive session indication		
			'82': Early response		
			other values: RFU		
			·		
RQ02_0503	5.2.1.2		V with reference format and in case of reference to a		
			ed record shall contain the set of COMPREHENSION-		
			y a length value as defined for a BER-TLV, see		
5000 0504	5040	ETSI TS 102 222 [9].	· •••••••		
RQ02_0504	5.2.1.2		tion TLV coding "proactive session indication" shall be:		
			e script if there is no script chaining. n the script if there is script chaining.		
RQ02_0505	5.2.1.2				
RQ02_0505	5.2.1.2	In case of "proactive session indication", execution of the remaining script shall be suspended if a proactive session is ongoing.			
RQ02_0506	5.2.1.2		indication", execution of the remaining script shall be		
11002_0000	0.2.1.2		sion is ongoing. Script processing shall be resumed		
			session. If the UICC cannot suspend the script		
			e is not enough internal resources available, the UICC		
			g of the script and return a "suspension error" in the		
		response data.			
RQ02_0507	5.2.1.2	If no "proactive session indic	ation" is present as first Command TLV and another		
		proactive session is ongoing,	, proactive commands in the script shall be silently		
		ignored.			
RQ02_0508a	5.2.1.2		he response to the sending entity shall be sent before		
		processing the rest of the cor			
RQ02_0508b	5.2.1.2		In case of "early response", the number of executed commands TLV objects shall		
			mmediate action TLV encoding the "early response".		
RQ02_0508c	5.2.1.2		no other response data shall be sent after the response		
		sent due to the early response	se action ILV.		

RQ number	Clause	Description
RQ02_0509	5.2.1.2	Proactive commands DISPLAY TEXT, PLAY TONE and REFRESH are allowed as
		Immediate Action.

RQ number	Clause	Description			
RQ02_0601	5.2.1.3	The Error Action TLV - normal format shall be formatted as:			
		Length in bytes	Name		
			Error Action tag (see annex A)		
		L	Length of Error Action = $A > 1$		
		A	Set of COMPREHENSION-TLV data objects		
RQ02_0602	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		
RQ02_0603	5.2.1.3	The Error Action TLV - no ac			
		Length in I			
			Error Action tag (see annex A) Length of Error Action = 0		
RQ02_0604	5.2.1.3	In case of referenced format, the referenced record in EF _{RMA} shall contain the set of COMPREHENSION-TLV data objects preceded by a length value as defined for a BER-TLV, see ETSI TS 123 048 [10].			
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		V between the start of the script and the C-APDU		

RQ number	Clause		[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 Chaining	g tag is defined in	annex A.	
RQ02_0702	5.2.1.4	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 sending entity.			
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, a command session is extended beyond the scope of one command scripting TLV; the session context is kept until the last script.			

Clause			Description	
5.2.2	Chaining produce	s no error,	present in the command list or processing of the Script it shall be formatted for Expanded Format of Remote ditional response data in case of definite length coding	
	Length in bytes	Name		
	1	Respons	e Scripting template tag for definite length coding	
	L	Length of	f Response Scripting template= X+A+BC	
			of executed Command TLV objects	
			of first executed case 2/ case 4 C-APDU in the script	
	В	script	of second executed case 2/ case 4 C-APDU in the	
	С		of last executed C-APDU (case 1, 2, 3 or 4) in the Bad format TLV	
	corres	ast execut	ed C-APDU is a case 2 or case 4 command, its -APDU TLV shall only be present once in the	
	Respo	onse Script	ing template.	
	Where the tag of	this TLV is	defined in annex A	
5.2.2	The Response So ETSI TS 101 220	ripting tem [6], i.e. it u	plate is a BER-TLV data object as defined in ETSI see RQ02_0301 it shall be	
522			present in the command list or processing of the Script	
0.2.2	Chaining produces no error, it shall be formatted for Expanded Format of Remote Management application additional			
			efinite length coding as:	
			se Scripting template tag for indefinite length coding	
	-		r for indefinite length coding (value '80')	
	A		J of first executed C-APDU in the script	
	В	R-APDI	J of second executed C-APDU in the script	
	<u> </u>		Lef last evented C ADDLL in the parint or Red format	
		TLV	J of last executed C-APDU in the script or Bad format content indicator (value '00 00')	
	<u> </u>			
	The Response So length coding as o	ripting tem	plate is a BER-TLV data object which uses indefinite SO/IEC 8825-1 [21]; see RQ02_0302. It shall be used if	
522			late used indefinite length coding. plate is a BER TLV data object as defined in ETSI	
0.2.2	TS 101 220 [6], i.	e. it uses d	efinite length coding; see table 5.2 [1]. It shall be used if late used definite length coding.	
5.2.2			plate is a BER-TLV data object which uses indefinite	
			SO/IEC 8825-1 [21]; see table 5.2a [1]. It shall be used if	
5.2.2	In case the definit	e length co	bding is used, the Number of executed command TLV bject and shall be coded as shown below:	
			Description	
		1	Number of executed command TLV objects tag	
1		1	Length=X	
		Х	Number of executed command TLV objects	
500				
5.2.2	R-APDU COMPR	EHENSIO	DU shall be a TLV structure coded according to the N-TLV data object coding defined in ETSI	
	5.2.2 5.2.2 5.2.2 5.2.2 5.2.2	5.2.2 In case no Script Chaining produce Management app as: Length in bytes 1 L X A B C NOTE: NOTE: If the I corres Respondent Vhere the tag of it 5.2.2 The Response Sc ETSI TS 101 220 used if the command 5.2.2 In case no Script Chaining produce Management app response data in of Length in bytes 1 1 A B C 2 Where the tag of it 5.2.2 The Response Sc length coding as of the command script 5.2.2 The Response Sc length coding as of the command script 5.2.2 The Response Sc length coding as of the command script 5.2.2 The Response Sc length coding as of the command script 5.2.2 In case the definit objects is a BER- Length Length Where the tag of it Length 5.2.2 The structure of e R-APDU COMPR	5.2.2 In case no Script Chaining is Chaining produces no error, Management application add as: Length in bytes Name bytes 1 Response L Length of X Numbero A R-APDU B B R-APDU script C R-APDU script or C R-APDU script C R-APDU script S.2.2 In case no Script Chaining is Chaining produces no error, Management application add response data in case of indid Length in bytes Name 1 Indicato A R-APDU B R-APDU B R-APDU B R-APDU B R-APDU B	

RQ number	Clause	Description				
RQ02_0807	5.2.2		ngth of the R-AP	DU mentioned in the note in ETSI		
			Le='00', the length of the R-APDU may be			
DOOOOOOOOOOOOO		coded on more than two				
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				
				e data and processing of the command		
		script shall be aborted a		o data ana prococonig or the command		
RQ02_0810	5.2.2		The Number of executed C-APDUs shall take into account the incorrectly formatted			
		TLV.	TLV.			
RQ02_0811	5.2.2	The Bad format TLV is a	a BER-TLV data	object and shall be coded as follow:		
			Length in	Description		
			bytes	Decemption		
			1	Bad format TLV		
				tag		
			1	Length		
			1	Error type		
		Where the tag of this TL	V is defined in a			
RQ02_0812	5.2.2			following error type coding:		
	0.2.2	'01': Unknown Tag found		in the second gradient of the second gradient		
		'02': Wrong length found	d.			
		'03': Length not found.				
RQ02_0812a	5.2.2	other values: RFU.	of Remote Manac	gement application additional response data		
NQ02_0012a	J.Z.Z			ite length coding and If "proactive session		
				proactive session is ongoing and the UICC is		
				additional response application data shall		
		be formatted according	to table below ar	nd indicate "suspension error".		
		Length in bytes		Name		
			ponse Scripting	template tag for definite length coding		
				Scripting template= X+A		
				command TLV objects (value is 1)		
		A Imm	nediate Action Re	esponse		
RQ02_0812b	5.2.2	Where the tag of this TL		ent application additional		
	J.Z.Z			ion error - indefinite length coding and If		
		"proactive session indica	ation" is present	in the script and a proactive session is		
				end script processing, the additional		
			ita shall be forma	atted according to table below and indicate		
		"suspension error".		Name		
		bytes		Nume		
			Response Scripti	ing template tag for indefinite length		
			coding			
				finite length coding (value '80')		
			mmediate Action			
			End of content in	dicator (value '00 00')		
		Where the tag of this TL	V is defined in a	nnex A		
RQ02_0813	5.2.2			Q02_0812a and RQ02_0812b is an		
		Immediate Action Respo	onse TLV which	is a BER-TLV data object coded as follow:		
		L on other	-	Description		
		Length in bytes	n	Description		
		1	Immediate	Action Response tag (see		
			annex A)			
		1	Length=X			
		Х	Immediate	Action Response Value		
RQ02_0814	5.2.2		Response Value	from RQ02_0813 is defined as follows:		
		'01': Suspension error.				

5.2.2	In case a Script Cha	aining TLV indic	ating "subsequent script - " i	s present in the list	
	the following situati		In case a Script Chaining TLV indicating "subsequent script" is present in t		
		the following situation shall be considered as chaining errors:			
			a Script Chaining TLV indicatin	ng "first script"	
			script(s) will follow".		
5.2.2			ating "subsequent script" i	s present in the list,	
			idered as chaining errors:		
			g "first script - delete chaining	information upon	
5.2.2				a shall be formatted	
	Length in bytes		Name		
	1	Response Scrip	ting template tag for definite le	ength coding	
	L2				
	Х	Number of exec	uted Command TLV objects		
	A				
			·		
	Where the Script C	haining Respons	se tag is defined in annex A.		
5.2.2	In case of chaining errors, the additional response application data shall b				
	according to table b				
	Length in		Name		
	bytes				
	1	Response S	cripting template tag for indefin	nite length	
		coding			
	1			'80')	
	A				
	2	End of conte	ent indicator (value '00 00')		
		·			
5.2.2	The Script Chaining			I shall be coded as:	
			Description		
		bytes			
		1	• •		
		1			
		Х			
			Value		
	Where the Script C	haining Respons	se tag is defined in annex A		
522					
			ov this application.		
				chaining context)	
	5.2.2	5.2.2 In case of chaining according to table be according to tab	5.2.2 In case of chaining errors, the addit according to table below, for definite Length in bytes 1 1 Response Script L2 Length of Response X Number of exect A Script Chaining Where the Script Chaining Response 5.2.2 In case of chaining errors, the addit according to table below, for indefin bytes 1 Response Script Chaining Vehere the Script Chaining Response 1 Indicator for A Script Chaining Script Chaining Response 5.2.2 The Script Chaining Response TLV Where the Script Chaining Response TLV Length in bytes 1<	Length in bytes Name 1 Response Scripting template tag for definite le L2 Length of Response Scripting template= X+A X Number of executed Command TLV objects A Script Chaining Response Where the Script Chaining Response tag is defined in annex A. 5.2.2 In case of chaining errors, the additional response application dat according to table below, for indefinite length coding: Length in Name bytes 1 In case of chaining errors, the additional response application dat according to table below, for indefinite length coding: Length in Name bytes 1 In case of chaining Response Scripting template tag for indefinic coding 1 Indicator for indefinite length coding (value A Script Chaining Response 2 End of content indicator (value '00 00') Where the Script Chaining Response tag is defined in annex A. 5.2.2 The Script Chaining Response TLV is a BER-TLV data object and bytes 1 Script Chaining Response tag is defined in annex A. 5.2.2 The Script Chaining Response tag is defined in annex A. 5.2.2 The Script Chaining Response tag is defined in annex A.	

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 [1] shall be assigned to each Remote Management application (RFM/RAM).
		est cases for RQ03_0103 is out of scope for the present document.

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	6.2	An Access Domain as described in clause 8.2.1.3.2.5 in [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.
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.
		NOTE: ADFs are not considered to be files located under the MF.
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 P1='04' in the Command Parameters of SELECT.
RQ04_0305	7.2	The TAR value of the UICC Shared File System Remote File Management
_		application is defined in ETSI TS 101 220 [6].
NOTE: RQ0	4_0305 is for	r information only.

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
1\Q04_0407	7.5	current 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
1\Q04_0400	7.5	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
RQ04_0410	7.3	P1='04' in the Command Parameters of SELECT. The TAR of an ADF RFM application shall be linked to the AID of the application to
KQU4_0410	1.3	which the ADF belongs.
RQ04_0411	7.3	The TAR value of an ADF Remote File Management application is defined in
	1.5	ETSI TS 101 220 [6].
NOTE: RQ04	4 0/11 is for	r information only.
	0+113101	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
D005 0404	0	Specification [5] as detailed in the UICC Configuration [16].
RQ05_0104	8	A RAM Application shall support all features and functionality described in the present
	0	clause unless they are specifically described as optional. The support of the APIs related to GlobalPlatform Card Specification [5] (Java Card API []
RQ05_0105	8	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
11000_0100	0	"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.
		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
		cryptographic computations.
NOTE 1: RQ0		
		est cases for RQ05_0103, RQ05_0105 and RQ05_0106 is out of scope for the present
docu	ment.	

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 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.
NOTE: Development of test cases for RQ05_0201, RQ05_0202 and RQ05_0203 is out of scope for the present document.		

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 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 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.
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].
		_3802, RQ05_3805 and RQ05_3806 are implicitly tested in the present document. Further it 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 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 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 [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 Install Parameter Field of the INSTALL [for install] command shall be coded						
		according to GlobalPlatform Card Specification [5].						
RQ05_0802	8.2.1.3.2	If the System Specific parameters "Volatile data space limit" (Tag 'C7') and "Non volatile						
		data space limit" (Tag 'C8') are present, the UICC shall be able to handle them.						
RQ05_0803	8.2.1.3.2	The application instance shall be registered with the instance AID present in the INSTALL						
		[for install] command.						
RQ05_0804	8.2.1.3.2	In case of JavaCardTM applications, the application may invoke the register(bArray, bO bLength) or the register() method						
RQ05_0805	8.2.1.3.2							
		AID passed in the parameters shall be the instance AID provided in the install met						
RQ05_0806	8.2.1.3.2	In case of JavaCardTM applications, If the register() method is invoked the instance AID						
		present in the INSTALL [for install] command and the AID within the Load File, as specified						
		in GlobalPlatform Card Specification [5], should be the same.						
RQ05_0807	8.2.1.3.2	The "UICC System Specific Parameters" TLV object (Tag 'EA', as defined below) is included in the Install Parameter Field 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 [5] 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	The "SIM F as defined coded as fo	oject (Tag 'CA', F') and shall be					
		Pres	ence	Length	Name	Value		
		Optiona	al	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	terminal an the timers,	d UICC the Bea	resources rer Indeper	it application specific parameters field is used the application instance can use. These reso ndent protocol channels, menu items for the nd the TAR Value(s) field	ources include		
		sim.toolkit. ETSI TS 14 sim.access	sing the					
		Length	Name			Value		
		Length 1	Lengt	h of Acces	s Domain field	Value		
		Length 1 1 to p	Lengt Acces	h of Access ss Domain		Value		
		1 1 to p 1	Lengt Acces Priorit	h of Acces ss Domain ty level of tl	ne Toolkit application instance	Value		
		1	Lengt Acces Priorit Maxin	h of Access ss Domain ty level of th num numbe		Value		
		1 1 to p 1	Lengt Acces Priorit Maxin instar	h of Acces ss Domain ty level of th num numbe nce	ne Toolkit application instance er of timers allowed for this application	Value		
		1 1 to p 1 1 1	Lengt Acces Priorit Maxin instan Maxin	h of Access ss Domain ty level of th num numbe nce num text le	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry			
		1 1 to p 1	Lengt Acces Priorit Maxin instar Maxin Maxin	h of Access as Domain ty level of th num numbe nce num text le num numbe	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this	Value 		
		1 1 to p 1 1 1	Lengt Acces Priorit Maxin instar Maxin Maxin applic	h of Access as Domain ty level of th num numbe num text le num numbe cation insta	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this nce			
		1 1 to p 1 1 1	Lengt Acces Priorit Maxin instar Maxin Maxin applic Positi	h of Access as Domain ty level of th num numbe num text le num numbe cation instation of the fil	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this nce rst menu entry			
		1 1 to p 1 1 1	Lengt Acces Priorit Maxin instar Maxin applic Positi Identi 	h of Access as Domain ty level of th num numbe num text le num numbe ation insta on of the fi fier of the fi	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this nce rst menu entry irst menu entry ('00' means do not care)			
		1 1 to p 1 1 1	Lengt Acces Priorit Maxin instar Maxin Applic Positi Identi Positi	h of Access as Domain ty level of th num numbe num text le num numbe cation insta on of the fin fier of the fin	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this nce rst menu entry irst menu entry ('00' means do not care) ist menu entry	= m \ = 2 × m		
		1 1 to p 1 1 1 1 1 1 1 1 1 1 1 1 1	Lengt Acces Priorit Maxin instar Maxin applic Positi Identi Identi	h of Access as Domain ty level of th num number num text le num number ation insta on of the fin fier of the fa fier of the la	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this nce rst menu entry irst menu entry ('00' means do not care) est menu entry ('00' means do not care)	= m \ = 2 × m		
		1 1 to p 1 1 1 1 1 1 1 1 1 1 1 1 1	Lengt Acces Priorit Maxin instar Maxin Applic Positi Identi Identi Maxin	h of Access as Domain ty level of th num number num text le num number cation instal on of the fin fier of the fa fier of the la num number	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this nce rst menu entry irst menu entry ('00' means do not care) est menu entry ('00' means do not care) er of channels for this application instance	= m \ = 2 × m		
		1 1 to p 1 1 1 1 1 1 1 1 1 1 1 1 1	Lengt Acces Priorit Maxin instar Maxin Applic Positi Identi Naxin Positi Identi Maxin Lengt	h of Access as Domain ty level of th num number num text le num number cation instal on of the fin fier of the fa fier of the la num number h of Minim	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this nce rst menu entry irst menu entry ('00' means do not care) est menu entry ('00' means do not care) er of channels for this application instance um Security Level field	= m \ = 2 × m		
		1 1 to p 1 1 1 1 1 1 1 1 1 1 1 1 1	Lengt Acces Priorit Maxin instar Maxin Maxin applic Positi Identi Maxin Identi Maxin Lengt Minim	h of Access as Domain ty level of th num number num text le num number ation instal on of the fin fier of the la fier of the la num number h of Minimum	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this nce rst menu entry irst menu entry ('00' means do not care) est menu entry ast menu entry ('00' means do not care) er of channels for this application instance um Security Level field ty Level (MSL)	= m \ = 2 × m		
		1 1 to p 1 1 1 1 1 1 1 1 1 1 1 1 1	Lengt Acces Priorit Maxin instar Maxin Agplic Positi Identi Identi Maxin Lengt Minim	h of Access as Domain ty level of th num number num text le num number ation instal on of the fin fier of the fin fier of the la num number h of Minimi num Securit h of TAR V	ne Toolkit application instance er of timers allowed for this application ngth for a menu entry er of menu entries allowed for this nce rst menu entry irst menu entry ('00' means do not care) est menu entry ('00' means do not care) er of channels for this application instance um Security Level field	= m \ = 2 × m		

RQ number	Clause			Description		
RQ05_1001	8.2.1.3.2.2	System Specific Pa	arameters	Ikit parameters TLV object (tag 'CA') is prese TLV object (tag 'EA') is present, the card sha eters in data field, to the INSTALL [for install]	Il return the Status	
RQ05_1002 8.2.1.3.2.2		Specific P	Parameters constructed value field of the INS			
		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		
			N	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		Access parameters for the same ADF may be present in both the UICC Access Application specific parameters field and the UICC Administrative Access Application specific parameters			
RQ05_1004	8.2.1.3.2.2			me UICC file system may be present in both ers field and the UICC Administrative Access		

RQ number	Clause		Description			
RQ05_1101	8.2.1.3.2.2.1		C toolkit application specific parameters field is used to specify the			
		UICC resources the application instance can use. These resources include the timers,				
			er Independent Protocol channels, the services for local bearers,			
			lp Menu, the Minimum Security Level and the TAR Value(s) field			
RQ05_1102	8.2.1.3.2.2.1		C Toolkit Application specific parameters are mandatory for appli			
			oolkit.ToolkitInterface defined in ETSI TS 102 241 [7] and for Ap			
			SExtension interface as defined in ETSI TS 102 588 [17] that ma	ake use of the		
			Handler and the ProactiveResponseHandler.			
RQ05_1103	8.2.1.3.2.2.1		he toolkit resources will be accessible if the UICC Toolkit Application	ation specific		
			ers are missing.			
RQ05_1104 8.2.1.3.2.2.1	8.2.1.3.2.2.1	UICC To	olkit 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	= m		
			instance			
		1	Position of the first menu entry	\		
		1	Identifier of the first menu entry ('00' means do not care)	1		
			·····	$ =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-a	Minimum Security Level (MSL)			
		1	Length of TAR Value(s) field			
		3 × y	TAR Value(s) of the Toolkit Application instance	1		
		1	Maximum number of services for this application instance			
		<u> </u>		<u> </u>		
D005 4465	0.0.4.0.0.0.4	A	Search and the second by the search			
RQ05_1105	8.2.1.3.2.2.1		tional parameters shall be ignored by the card.			
NOTE: RQ	05_1101 is for	informatio	n oniy.			

RQ number	Clause		Description					
RQ05_1201	8.2.1.3.2.2.2	The UICC	access ap	plication specific parameters field is used to spec	ify the acc	cess		
				n instance is granted access rights to files only a	ccording to	o these		
			ess parame					
RQ05_1202	8.2.1.3.2.2.2			plication specific parameters are applicable to ap				
				defined in ETSI TS 102 241 [7]. These parameter	ers shall be	e coded		
		as follows						
			Presenc	Name	Lengt			
		е		h				
				Length of UICC file system AID	1			
				Empty UICC file system AID	0			
			0	Length of Access Domain for UICC file system	1			
			Ŭ	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			
				Length of Access Domain for ADF #1	1			
			0	Access Domain for ADF #1	Ν			
				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			
				Length of Access Domain for ADF #n	1			
			0	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 security 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 DAP is the following data:	concatenation of the			
		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 Key Versighte the Issuer Security Domain.				
RQ05_1303	8.2.1.3.2.2.3	Depending on the key type for DAP, if padding is required by the algorithm, the data is appended by '80' and filled up with zero or more '00'.				
RQ05_1304	8.2.1.3.2.2.3	Depending on the key type for DAP, if DES is used, MAC in CBC mode with initial chaining value set to zero shall be used.				
RQ05_1305	8.2.1.3.2.2.3	Depending on the key type for DAP, if AES [13] is used, CMAC mode The length of the MAC shall be associated with the key	e [15] shall be used.			

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
		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	 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: [1127] under control of the card issuer. [128255] under the control of the toolkit framework.
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	r information only.

RQ number	Clause		Description			
RQ05_1601	8.2.1.3.2.4		the length of the Minimum Security Level (MSL) field for Toolkit Application Specific arameters is zero, no minimum security level check shall be performed by the Receiving ntity.			
RQ05_1602	8.2.1.3.2.4	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 cod according to the following table.				
		<u>٦</u>	Length	Name]	
			1	MSL Parameter		
			q to 1	MSL Data		
		The MSL Data coding	and length	is defined for each MSL Parameter.		

RQ number	Clause	Description The possible values for the MSL Parameter for Toolkit Application Specific Parameters are:					
RQ05_1701	8.2.1.3.2.4.1						
		Value	Name	Support	MSL Data length		
		'00'	RFU	RFU	N/A		
		'01'	Minimum SPI1	Optional	1		
		'02' to '7F'	RFU	RFU	N/A		
		'80' 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	8.2.1.3.2.4.2	The first octet of the SPI field of MSL parameter in the incoming message Command Packet (SPI1) shall be checked against the Minimum Security Level Data (MSLD) byte by the receiving entity according to the following rules: • if SPI1.b2b1 is equal to or greater than MSLD.b2b1; • if SPI1.b3 is equal to or greater than MSLD.b3; and • if SPI1.b5b4 is equal to or greater than MSLD.b5b4. then the Message Security Level is sufficient and the check is successful, otherwise the check is failed.

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

RQ number	Clause		Description						
RQ05_2001	8.2.1.3.2.5.1		s Domain Parameter indicates the me ccess to the File System.	chanism used to con	trol the applicatior				
		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 RQ05_2003	8.2.1.3.2.5.1	shall be inc The access secret code not affect t	s rights granted to an application and dependent from the access rights grar s rights granted to an application impli e (e.g. disabled PIN1, blocked PIN2, e he access rights granted to an applica	nted at the UICC/Terr les in particular that the etc.) at the UICC/Terr ation.	ninal interface. he status of a ninal interface doe				
RQ05_2004	8.2.1.3.2.5.1		ation with Access Domain Parameter es to access a file the framework sha						
RQ05_2005	8.2.1.3.2.5.1		f 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						
RQ05_2006	8.2.1.3.2.5.1		ss Domain Parameter (ADP) requeste Word '6A80', incorrect parameters in (

RQ number	Clause	Description
RQ05_2101	8.2.1.3.2.5.2	The UICC access mechanism shall be coded as specified in 8.2.1.3.2.5.2 in [1].
RQ05_2102	8.2.1.3.2.5.2	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	The Access Domain DAP is an optional signature. The security policy of the provider of			
		the application to whi	ch the file system belongs may red	quire the pre	sence of this DAP.	
RQ05_2202	8.2.1.3.2.5.3	The input data used t	o compute the Access Domain DA	AP is the con	catenation 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	System AID is not pre	ed File system, the Length of File assent in the Access Domain DAP.	•		
RQ05_2204	8.2.1.3.2.5.3	The key used to compute the Access Domain DAP is: Key identifier '02' of Key Version number '11' in the Security Domain associated to the application to which the File System belongs. In case of UICC shared file system, the associated Security Domain may be the Issuer Security Domain or another Security Domain, depending on the card Issuer's security policy.				
RQ05_2205	8.2.1.3.2.5.3	Depending on the key type for the Access Domain DAP, if padding is required by the algorithm, the data is appended by '80' and filled up with zero or more '00'.				
RQ05_2206	8.2.1.3.2.5.3	Depending on the key type for the Access Domain DAP, if DES is used, 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 DAF ed. The length of the MAC shall b			

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	8.2.1.3.2.6	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	8.2.1.3.2.6	 The following values are defined for priority level of the toolkit application: '00': RFU. '01': Highest priority level. 'FF': Lowest priority level. 	

RQ number	Clause		Description					
RQ05_2401	8.2.1.3.2.7	The 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	veral TAR Values at the installation of a To	oolkit Application.				
RQ05_2403	8.2.1.3.2.7	The TAR Value(s) field s	hall be coded according to the following ta	ble.				
		Bytes	Description	Length				
		1 to 3	TAR Value 1	3				
		4 to 6	TAR Value 2	3				
		$3 \times y$ -2 to $3 \times y$	TAR Value y	3				
RQ05_2404	8.2.1.3.2.7		e(s) is zero, the TAR may be taken out of t					
RQ05_2405	8.2.1.3.2.7		/alue(s) is greater than zero then the appli					
		installed with the TAR Value(s) field defined above and the TAR indicated in the AID if any						
		shall be ignored.						
RQ05_2406	8.2.1.3.2.7		ady assigned on the card for a Toolkit Appl					
			eld is incorrect, the card shall return the St	atus Word '6A80', incorrect				
		parameters in data field,	to the INSTALL [for install] command.					

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		S 102 622 [23		te in contactless reader mode as define stalled with parameters given below in 8		
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').			in	
RQ05_2504	8.2.1.3.2.8	The val	The value part of "Additional Contactless Parameters" shall be coded as follows:				
			Tag	Length	Value	Presence	
			'86'	1	Reader mode protocol data Type A	Optional	
			'87' N+2 Reader mode protocol data Type B Optional				
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	Global	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: RQ	05_2505 is fo	r informa	tion only.				

Description			Clause	RQ number
ing coding.	of the Reader mode protocol data Type A has the follow	RQ05_2601 8.2.1.3.2.8.1		
Lengt	Value	Parameter		
h				
1	MAX Maximum data rate supported as defined in ETSI TS 102 622 [23]	DATARATE_MAX		

RQ number	Clause	Description		
RQ05_2701	8.2.1.3.2.8.2	The value part of the Reader mode protocol data Type B has the follow		ng.
		Parameter	Value	Lengt h
		AFI	Application family identifier as defined in ETSI TS 102 622 [23]	1
		HIGHER_LAYER_DATA_LENGT H	Length of HIGHER_LAYER_DATA	1
		HIGHER_LAYER_DATA	Higher layer data as defined in ETSI ETSI TS 102 622 [23]	Ν

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
DO05, 0000	0.045	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		Descrip	tion		
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 valu	ies of AES I	keys only with an AES key	of the same or	
		greater length, where AES is the algo	rithm define	ed in [13].		
RQ05_3102	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 coding of the key type for AES ke				
RQ05_3103	8.2.1.5.1	If the command PUT KEY as defined				
		the definitions of the command PUT k	KEY as defir	ned in [5] shall be extended	d as in	
		RQ05_3103 to RQ05_3109				
RQ05_3104	8.2.1.5.1	The field "length of the key or key cor			et to the length of	
		the "key data value" defined in RQ05				
RQ05_3105	8.2.1.5.1	The "key data value" defined in [5] sh				
		Description	Length	Value	Presence	
		Length of the key in bytes	1	16, 24 or 32 for AES	Mandatory	
				16 or 24 for triple DES		
		Ciphered key	16 or 32		Mandatory	
		Length of the MAC in bytes	1	4 or 8	Conditional	
DO05 2400	0.04.54	The field liens the of the last in hydrolls			tained in the field	
RQ05_3106	8.2.1.5.1	The field "length of the key in bytes" s	nall be set t	to the length of the key con	itained in the field	
DO05 0407	0.04.54	"ciphered key" (without padding)		ainhanad kayil santaina an		
RQ05_3107	8.2.1.5.1	The field "length of the MAC" shall be				
		identifier '02' and key version '01' to '0F' or '11' (see clause "Coding of the KID for				
DO05 0400	0.04.54	Cryptographic Checksum" in [2]).				
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 initial				
DO05 0400	0.04.54	chaining value set to zero.			the line is a set of	
RQ05_3109	8.2.1.5.1	Keys that do not fill whole blocks of the				
		192 bits or triple DES using three diffe	erent keys) s	snall be padded to the next	DIOCK DOUNDARY.	
		Padding octets may have any value				

RQ	Clause			Description	
number					
RQ05_320 1	8.2.1.6	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			
				nd GET STATUS	
RQ05_320 2	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_320 3	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.			
		TAG	Length	Value	
		'EA'	Variable	SCP Registry Data	
		'80' Variable Menu parameters (see clause 8.2.1.6.1)			
RQ05_320 4	8.2.1.6	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	The format of Menu parameters of SCP Regist	ry 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		The menu entry identifiers and positions of SCI the Menu Entries list defined in ETSI TS 102 2- menu entry state as well as regardless of the A (e.g. Selectable/Locked, etc.).	41 [7], and shall be returned regardless of the pplication life cycle state		
RQ05_3303	8.2.1.6.1	 The menu entry state of SCP Registry Data is of '00': menu entry is disabled. '01': menu entry is enabled. other values: RFU. 	defined 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: 'FF 1F': Reserved for ETSI TS 123 048 [10]. 'FF 20': Reserved for ETSI TS 123 048 [10]. 'FF 21': Extended Card Resources Tag, this retrieves information on the card 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.		d data object referred to in reference contr nd message is:	ol param	eters P1 and P2
			Length	Description	Value	
			1	Number of installed application tag	'81'	
			1	Number of installed application length	Х	
			Х	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		
RQ05_3504	8.2.1.7.2	The free memor		t in GET DATA shall be at least available for	or applica	itions to be

RQ number	Clause			Description	
RQ05_3601	8.2.1.8	support the ST	ORE DATA	ential application management as specified in clause 10 A command as specified in the UICC Configuration [16]	•
RQ05_3602	8.2.1.8	Support of the solution of the	STORE DA he Third Pa ints, it shal	ATA command described in GlobalPlatform Card Specif arty Security Policy requires management of Executabl I be supported as specified in the following REQ_xx - R	ication [5] is le Load Files EQ_YY
RQ05_3603	8.2.1.8	INSTALL [for p	ersonalizat	Remote Application data format, the context establishe ion] (if supported) shall be saved across command ses and containing the last block.	
RQ05_3604	8.2.1.8		The STORE DATA Command is sent to a Security Domain to specify access rights restrictions to its Executable Load Files for a specified Third Party Security Domain.		
RQ05_3605	8.2.1.8	Executable Loa Third Party Sec	ad File spec curity Doma	le Load File List is present in the STORE DATA comma cified in the list shall be considered as Forbidden for the ain. Any other Executable Load File not present in the li ty Security Domain.	e indicated
RQ05_3606	8.2.1.8	Any subsequer if the Load File	nt loading o references	of Load Files performed by the Third Party Security Don sone or more Forbidden Executable Load Files. Access eady present on card are not affected by the command	s rights of
RQ05_3607	8.2.1.8	If a STORE DA Domain for whi Forbidden Exec Domain. If the r	TA Comma ch a Forbic cutable Loa new Forbid	and is resent to a Security Domain, specifying a Third F dden Executable Load File List has already been define ad File List replaces the previous list for this Third Party Iden Executable Load File List is empty the access rest Domain are removed from the addressed Security Doma	Party Security ed, the new Security rictions for
RQ05_3608	8.2.1.8		prevent ar	n Executable Load File from being set as Forbidden for	
RQ05_3609	8.2.1.8	The STORE DA multiple STORE	ATA comm E DATA co	and to load Forbidden Load File List shall support the c mmands to transfer large amounts of data. Parameter on encrypted data and BER-TLV format of the comman	P1 of the
RQ05_3610	8.2.1.8	TAG 'BE' is use Security Domai	ed to specif in AID TLV ta Comma	y a Forbidden Load File List in STORE DATA; the Thir object and the Forbidden Load Files AID TLV objects a nd Message to define the list of Forbidden Load Files fo	d Party are included or the Third
		Presence	Length	Name	Value
		Mandatory	1	Tag of Forbidden Executable Load Files AIDs constructed field	'BE'
		Mandatory	1 or 2	Length of Forbidden Executable Load Files AIDs constructed field	
		Mandatory		Third Party Security Domain AID TLV	
		Optional		Forbidden Executable Load File #1 AID TLV	
		Optional		Forbidden Executable Load File #2 AID TLV	
1	1	Optional		Forbidden Load File #N AID TLV	

RQ number	Clause	Description
RQ05_3611		The Third Party Security Domain AID TLV and the Forbidden Load File AID TLVs are coded as BER-TLV as defined 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 defi	inition.

RQ number	Clause	Description
RQ06_0201	9.1.1	The 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	The 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	9.1.3	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 9.2 [1].

RQ number	Clause	Description
RQ06_0501	9.1.4	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: RQ06_0501 is a definition.		

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		led as an APDU. The support of PUSH command shall be supporte mand tables defined in clauses 7 and 8 of [1] for applications CAT_TP.
RQ06_0702	9.2	The PUSH command	shall be coded as follows:
		Code	Value
		CLA	'80'
		INS	'EC'
		P1	'01'
			'80' reserved for application specific usage
		P2	'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)
		Lc	Length of subsequent data field
		Data	Described below
		NOTE	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.
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_TF	Plink establishment shall have the following	g 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		e transport protocol type is insignificant ar an allocable port number shall be used.	nd shall be set to
RQ06_0903	9.2.2	If the Max SDU size data object	is present in the command data field of th bject, and if the size is available on the UI	
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		nt in the command data field of the PUSH	
RQ06_0908	9.2.2	The SYN/ACK PDU sent from the	ne remote entity shall have a null identifica	tion data field.
RQ06_0909	9.2.2	If the link reaches the OPEN standard shall be set to '90 00'.	ate in CAT_TP, the status word of the PUS	H command
RQ06_0910	9.2.2	If the CAT_TP OPEN state is no	ot reached, the PUSH command shall be c PUSH command shall be set to '6F 00'.	onsidered as
RQ06_0911	9.2.2	The response data in the addition coded as follows: • '01': SYN sent failed. • '02': SYN/ACK not reco • '03': ACK sent failed (fi		ishment 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 comm TLV data objects:	consist of the following COMPREHENSION-	
		Data Object from ETSI TS 102 223 [4]	M/O/C	Comment
		Bearer description	Μ	
		UICC/terminal interface transport level	Μ	Transport protocol type shall be set to "TCP, UICC in client mode, remote connection"
		Data destination address	Μ	
		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
RQ06_1003	9.2.3	In case of errors in the command	data the F	PUSH command shall be rejected with status
1000_1000	0.2.0	word set to '6A 80'.		Soft command shall be rejected with status
RQ06_1004	9.2.3	If the TCP connection opening was successful, the status word of the PUSH command shall be set to '90 00'.		
RQ06_1005	9.2.3	If the TCP connection opening failed, the status word of the PUSH command shall be s to '6F 00'.		

RQ number	Clause		Description	
RQ06_1101	9.2.4	Sending of Identification Packet, the data field of the PUSH command may consist of the following COMPREHENSION-TLV data objects:		
		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 p be set to '6F 00'.	acket failed, the status word of the PUSH c	ommand shall

RQ number	Clause	Description
RQ06_1201	9.3	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	 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: 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; card reset.
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, 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 te	st cases for RQ07_0309 is out of scope for the present document.

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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	10.4	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 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] to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST. TLV Structure: C-APDU TLV Definite length coding	Secured Response Data is returned: 'AB 07 80 01 01 23 02 90 00'	RQ01_0001, RQ01_0002, RQ01_0003, RQ01_0005, RQ02_0301 RQ02_0302 RQ02_0303, RQ02_0401, RQ02_0801, RQ02_0801a, RQ02_0805, RQ02_0805, RQ02_0805, RQ02_0807, RQ04_0101, RQ04_0101, RQ04_0102
2	Send Command with Secured Data coded as: [Expanded Remote command structure] to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST. - SELECT: EFTARU. - READ BINARY coded with Le='00' TLV Structure: C-APDU TLV Definite length coding	Secured Response Data is returned: 'AB 7F 80 01 03 23 LEN [Data 90 00]' where the Data should be the content of EF _{TARU}	RQ01_0001, RQ01_0002, RQ01_0003, RQ01_0005 RQ02_0301, RQ02_0302, RQ02_0303, RQ02_0401, RQ02_0402, RQ02_0801, RQ02_0801a, RQ02_0805, RQ02_0805, RQ02_0806, RQ02_0807, RQ04_0101, RQ04_0102

Step	Description	Expected Result	RQ
3	Send Command with Secured Data coded as: [Expanded Remote command structure] to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST. - SELECT: EFTARU. - UPDATE BINARY (empty Le field) TLV Structure: C-APDU TLV Definite length coding	Secured Response Data is returned: 'AB 7F 80 01 03 23 02 90 00'	RQ01_0001, RQ01_0002, RQ01_0003, RQ01_0005 RQ02_0301, RQ02_0302, RQ02_0303, RQ02_0401, RQ02_0405, RQ02_0801, RQ02_0801, RQ02_0803, RQ02_0805, RQ02_0805, RQ02_0806, RQ02_0807, RQ04_0101,
NOTE:	The first byte of the response data (number of com present in case of HTTPS.	I mands executed within the command so	RQ04_0102 cript) would not be

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 coded as: [Expanded Remote command structure] to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST. - SELECT: EFTARU. - READ BINARY with wrong C-APDU Tag coded as: '23 05 00 B0 00 00 00' - TLV Structure: C-APDU TLV Definite length coding	Secured Response Data is returned: 'AB 06 80 01 03 90 01 01'	RQ01_0001, RQ01_0002, RQ01_0003, RQ01_0005, RQ02_0301, RQ02_0302, RQ02_0303, RQ02_0401, RQ02_0801, RQ02_0801a, RQ02_0801a, RQ02_0805, RQ02_0805, RQ02_0805, RQ02_0806, RQ02_0807, RQ02_0809, RQ02_0810, RQ02_0811, RQ02_0811, RQ02_0812 RQ04_0101, RQ04_0101, RQ04_0102

Step	Description	Expected Result	RQ
2	Send Command with Secured Data coded as: [Expanded Remote command structure] to the UICC Shared File System Remote File Management application, which contains: - 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 Definite length coding	Secured Response Data is returned: 'AB 06 80 01 03 90 01 02'	RQ01_0001, RQ01_0002, RQ01_0003, RQ01_0005, RQ02_0301, RQ02_0302, RQ02_0303, RQ02_0401, RQ02_0801, RQ02_0801a, RQ02_0801a, RQ02_0805, RQ02_0805, RQ02_0805, RQ02_0806, RQ02_0807, RQ02_0810, RQ02_0811, RQ02_0812 RQ04_0101, RQ04_0101, RQ04_0101,
3	Send Command with Secured Data coded as: [Expanded Remote command structure] to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST. - SELECT: EFTARU. - READ BINARY with no length in C-APDU structure coded as: '22 00 B0 00 00 00' TLV Structure: C-APDU TLV Definite length coding	Secured Response Data is returned: 'AB 06 80 01 03 90 01 03'	RQ04_0102 RQ01_0001, RQ01_0003, RQ02_0301, RQ02_0302, RQ02_0303, RQ02_0401, RQ02_0801, RQ02_0803, RQ02_0805, RQ02_0807, RQ02_0809, RQ02_0811, RQ02_0807, RQ02_0801, RQ02_0807, RQ02_0811, RQ02_0811, RQ02_0811, RQ02_0811, RQ02_0811, RQ04_0101,

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 UICC Shared File System Remote File	23 02 90 00	RQ01_0003,
	Management application, which contains: - SELECT: DFTEST.	00 00'	RQ01_0005
	TLV Structure: C-APDU TLV		RQ02_0301a,
	Indefinite length coding.		RQ02_0302,
			RQ02_0303,
			RQ02_0401,
			RQ02_0802,
			RQ02_0802a,
			RQ02_0804
			RQ04_0101,
			RQ04_0102
2	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0002,
	coded as: [Expanded Remote command structure]	'AF 80	RQ01_0001,
	to the UICC Shared File System Remote File Management application, which contains:	23 02 90 00 23 02 90 00	RQ01_0003,
	- SELECT: DFTEST.	23 02 90 00	RQ02_0301a,
	- SELECT: EFTARU.	00 00'	RQ02_0302,
	 UPDATE BINARY (empty Le field) 		RQ02_0303,
	TLV Structure: C-APDU TLV		RQ02_0401,
	Indefinite length coding.		RQ02_0402,
			RQ02_0802,
			RQ02_0802a,
			RQ02_0804
			RQ04_0101,
			RQ04_0102
3	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0002,
	coded as: [Expanded Remote command structure]	'AF 80	RQ01_0001,
	to the UICC Shared File System Remote File	23 02 90 00	RQ01_0003,
	Management application, which contains: - SELECT: DF _{TEST} .	23 02 90 00 23 LEN [Data 90 00]	RQ01_0005,
	- SELECT: EFtaru.	00 00' where the Data should	RQ02_0301a,
	- READ BINARY coded with Le field set to	be the content of EFTARU	RQ02_0302,
	'00'		RQ02_0303,
	TLV Structure: C-APDU TLV		RQ02_0401,
	Indefinite length coding.		
			RQ02_0802,
			RQ02_0802a,
			RQ02_0804
			RQ04_0101,
			RQ04_0102
NOTE:	The first byte of the response data (number of con	nmands executed within the command se	
	present in case of HTTPS.		. ,

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 UICC Shared File System Remote File	23 02 90 00	RQ01_0003,
	Management application, which contains:	23 02 90 00	RQ01_0005
	- SELECT: DFTEST.	90 01 01	
	- SELECT: EFTARU.	00 00'	RQ02_0301a
	- READ BINARY with wrong C-APDU		RQ02_0302,
	coded as ' 23 05 00 B0 00 00 00'		RQ02_0303,
	TLV Structure: C-APDU TLV Indefinite length coding.		RQ02_0401,
			RQ02_0802,
			RQ02_0802a,
			RQ02_0804,
			_ ,
			RQ02_0806,
			RQ02_0807,
			RQ02_0809,
			RQ02_0811,
			RQ02_0812
			BO04 0101
			RQ04_0101,
2	Send Command with Secured Data	Secured Response Data is returned:	RQ04_0102 RQ01_0001,
Ĺ	coded as: [Expanded Remote command structure]	AF 80	RQ01_0001, RQ01_0002,
	to the UICC Shared File System Remote File	23 02 90 00	RQ01_0003,
	Management application, which contains:	23 02 90 00	RQ01_0005
	- SELECT: DFTEST.	90 01 02	
	 SELECT: EFTARU. READ BINARY with wrong C-APDU 	00 00'	RQ02_0301a
	length coded as:'22 0F 00 B0 00 00 00' TLV Structure: C-APDU TLV		RQ02_0401,
	Indefinite length coding.		RQ02_0802,
			RQ02_0802a,
			RQ02_0804,
			RQ02_0806,
			RQ02_0807, RQ02_0809,
			RQ02_0803, RQ02_0811,
			RQ02_0812
			11002_0012
			RQ04_0101,
			RQ04_0102
3	Send Command with Secured Data	Secured Response Data is returned:	RQ01_0001,
	coded as: [Expanded Remote command structure]	'AF 80	RQ01_0002,
	to the UICC Shared File System Remote File	23 02 90 00	RQ01_0003,
	Management application, which contains:	23 02 90 00 90 01 03	RQ01_0005
	- SELECT: DFTEST. - SELECT: EFTARU.	90 01 03	RQ02_0301a,
	- READ BINARY with no length in C-APDU structure as:'22 00 B0 00 00 00' TLV Structure: C-APDU TLV		RQ02_0401,
	Indefinite length coding.		RQ02 0802.
			RQ02_0802a,
			RQ02_0804,
			,
			RQ02_0806,
			RQ02_0807,
			RQ02_0809,
			RQ02_0811,
			RQ02_0812
			D004 0404
			RQ04_0101,
L			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] to	The proactive session is performed	RQ01_0002,
	the Test application with AID30, which consist of	successfully for DISPLAY TEXT.	RQ01_0003,
	proactive command:		RQ01_0005
	- DISPLAY TEXT		RQ02_0301;
	TLV Structure: Immediate Action TLV using normal		RQ02_0302,
	format Definite length coding.		RQ02_0304,
			RQ02_0501,
			RQ02_0504,
			RQ02_0509,
			RQ04_0101,
			RQ04_0102
2	Send Command with Secured Data	On the UICC-Terminal interface:	RQ01_0001,
	coded as: [Expanded Remote command structure] to	The proactive session is performed	RQ01_0002,
	the Test application with AID31, which consist of	successfully for PLAY TONE.	RQ01_0003,
	proactive command: - PLAY TONE		RQ01_0005
	TLV Structure: Immediate Action TLV using normal		RQ02_0301,
	format		RQ02_0302,
	Definite length coding.		RQ02_0304,
			RQ02_0501,
			RQ02_0504,
			RQ02_0509
			RQ04_0101,
			RQ04_0102
3	Send Command with Secured Data	On the UICC-Terminal interface:	RQ01_0001,
	coded as: [Expanded Remote command structure] to	The proactive session is performed	RQ01_0002,
	the Test application with AID32, which consist of	successfully for REFRESH.	RQ01_0003,
	proactive command: - REFRESH		RQ01_0005
	TLV Structure: Immediate Action TLV using normal		RQ02_0301,
	format		RQ02_0302,
	Definite length coding.		RQ02_0304,
			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
1	Send Command with Secured Data	On the UICC-Terminal interface:	RQ02_0301,
	coded as: [Expanded Remote command structure] to	The proactive session is performed	RQ02_0302,
	the Test application with AID33, consist of 2	successfully for DISPLAY TEXT.	RQ02_0304,
	Command TLV having the following TLV Structure in		
	Definite length coding:		RQ02_0502,
	1 st CMD: Immediate Action TLV		RQ02_0509
	 Referenced format indicating proactive 		
	session ('81') in the first command		
	 2nd CMD: C-APDU TLV consist of 		
	DISPLAY TEXT		
2	Send Command with Secured Data	Secure Response Data is returned to	RQ02_0301,
	coded as: [Expanded Remote command structure] to	the sending entity, containing	RQ02_0302,
	the Test application with AID33, consist of 3	'AB 07	RQ02_0304,
	Command TLV having the following TLV Structure in	80 01 01	RQ02_0502,
	Definite length coding:	23 02 90 00'	RQ02_0503,
	1 st CMD: Immediate Action		RQ02_0504,
	- Referenced format TLV indicating early	On the UICC-Terminal interface:	RQ02_0509,
	response ('82')	The proactive session is performed	RQ02 0508a.
	2 nd CMD: C-APDU TLV consist of DISPLAY	successfully for DISPLAY TEXT.	RQ02_0508b,
	TEXT		RQ02_0508c
	3 rd CMD: Immediate Action	The proactive session is performed	
	- Referenced format TLV then to the second	successfully for REFRESH	RQ02_0801
	record in EF _{RMA} ('02') refers to REFRESH	command.	
3	Send Command with Secured Data	On the UICC-Terminal interface:	RQ02_0301,
	coded as: [Expanded Remote command structure] to	The proactive session is performed	RQ02_0302,
	the Test application with AID33, which consist of 2	successfully for DISPLAY TEXT.	RQ02_0304,
	Command TLV having the following TLV Structure in		
	Definite length coding:	The proactive session is performed	RQ02_0502,
	1 st CMD: Immediate Action	successfully for REFRESH	RQ02_0503,
	 Referenced format to the first record in 	command.	RQ02_0504,
	EF _{RMA} ('01') DISPLAY TEXT		RQ02_0509,
	2 nd CMD: Immediate Action		
	 Referenced format TLV to the second 		
	record in EF _{RMA} ('02') REFRESH		
4	Send Command with Secured Data	On the UICC-Terminal interface:	RQ02_0301,
	coded as: [Expanded Remote command structure] to	The proactive session is performed	RQ02_0302,
	the Test application with AID33, consist of 3	successfully for DISPLAY TEXT.	RQ02_0304,
	Command TLV having the following TLV Structure in		_ ,
	Definite length coding:	Secured Response Data is returned:	RQ02_0502,
	1st CMD: Immediate Action TLV	'AB 07	RQ02_0504,
	 Referenced format indicating proactive 	80 01 03	RQ02_0509
	session ('81')	23 02 90 00'	
	2 nd CMD: C-APDU TLV consist of DISPLAY		
	TEXT		
	3 rd CMD: C-APDU TLV		
	- SELECT: DFTEST.		
L			

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.
- Test application with AID34 has been successfully installed.

6.2.2.7.2 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] to	'AB 06	RQ02_0302,
	the Test application with AID34, consist of 2	80 01 01	RQ02_0304,
	Command TLV having the following TLV Structure:	81 01 01'	
	Immediate Action TLV using referenced format		RQ02_0501,
	indicating proactive session ('81') followed by a C-	On the UICC-Terminal interface:	RQ02_0509,
	APDU TLV DISPLAY TEXT proactive command with	The proactive session is not	RQ02_0812a,
	wrong C-APDU length.	performed for DISPLAY TEXT	RQ02_0813,
	Definite length coding.		RQ02_0814

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	On the UICC-Terminal interface:	RQ02_0301a,
-	coded as: [Expanded Remote command structure]	The proactive session is performed	RQ02_0302,
	to the Test application with AID30, which consist of	successfully for DISPLAY TEXT.	RQ02_0304,
	proactive command:		_ ,
	- DISPLAY TEXT		RQ02_0501,
	TLV Structure: Immediate Action TLV using normal		RQ02_0504,
	format		RQ02_0509
	Indefinite length coding.		
2	Send Command with Secured Data	On the UICC-Terminal interface:	RQ02_0301a,
	coded as: [Expanded Remote command structure]	The proactive session is performed	RQ02_0302,
	to the Test application with AID31, which consist of	successfully for PLAY TONE.	RQ02_0304,
	proactive command:		
	- PLAY TONE		RQ02_0501,
	TLV Structure: Immediate Action TLV using normal		RQ02_0504,
	format		RQ02_0509,
	Indefinite length coding.		
3	Send Command with Secured Data	On the UICC-Terminal interface:	RQ01_0003,
	coded as: [Expanded Remote command structure]	The proactive session is performed	
	to the Test application with AID32, which consist of	successfully for REFRESH.	RQ02_0301a,
	proactive command:		RQ02_0302,
	- REFRESH		RQ02_0304,
	TLV Structure: Immediate Action TLV using normal		
	format		RQ02_0501,
	Indefinite length coding.		RQ02_0504,
			RQ02_0509

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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 coded as: [Expanded Remote command structure] to the Test application with AID33, which consist of one Command TLV having the following TLV Structure: Immediate Action TLV using referenced format indicating proactive session ('81') followed by DISPLAY TEXT Indefinite length coding.	On the UICC-Terminal interface: The proactive session is performed successfully for DISPLAY TEXT.	RQ02_0301a, RQ02_0302, RQ02_0304, RQ02_0502, RQ02_0503, RQ02_0509,
2	Send Command with Secured Data coded as: [Expanded Remote command structure] to the Test application with AID33, consist of 4 Command TLV having the following TLV Structure in Indefinite length coding: 1st CMD: Immediate Action TLV - referenced format first record in EF _{RMA} ('03'), then 2 nd CMD: Immediate Action TLV - referenced format indicating early response ('82') 3 rd CMD: C-APDU TLV consist of DISPLAY TEXT 4 th CMD: Immediate Action TLV - referenced format to the second record in EF _{RMA} ('02')	Secured Response Data is returned: 'AF 80 81 02 90 00 00 00' On the UICC-Terminal interface: The proactive session is performed successfully for the following proactive commands in the following order: - PLAY TONE - DISPLAY TEXT and - REFRESH.	RQ02_0301a, RQ02_0302, RQ02_0502, RQ02_0503, RQ02_0509, RQ02_0509, RQ02_0802, RQ02_0508a, RQ02_0508b, RQ02_0508b, RQ02_0508c

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.
- Test application with AID34 has been successfully installed.

6.2.2.10.2 Test Procedure

Step	Description	Expected Result	RQ
1	Send Command with Secured Data	Secured Response Data is returned:	RQ02_0301a,
	coded as: [Expanded Remote command structure] to	'AF 80	RQ02_0302,
	the Test application with AID34, which consist of:	81 01 01	RQ02_0304,
	- TLV Structure: Immediate Action TLV using	00 00'	
	referenced format indicating proactive		RQ02_0501,
	session ('81') in the first command TLV	On the UICC-Terminal interface:	RQ02_0509,
	followed by C-APDU TLV consist of	The proactive session is not	
	DISPLAY TEXT with wrong C-APDU length	performed for DISPLAY TEXT	RQ02_0812b,
			RQ02_0813,
	Indefinite length coding.		RQ02_0814

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: 1st CMD: Error Action TLV using normal format consist of DISPLAY TEXT 2nd CMD: C-APDU TLV consist of SELECT: DFTEST 3rd CMD: C-APDU TLV consist of SELECT: EFTPRU 4th 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 05 82 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: 1st CMD: Error Action TLV with no action 2nd CMD: C-APDU TLV consists of SELECT: DF_{TEST} as C-APDU TLV 3rd CMD: C-APDU TLV consists of SELECT: EF_{TPRU} as C-APDU TLV 4th CMD: C-APDU TLV consist of READ BINARY as C-APDU TLV 	Secured Response Data is returned: 'AB 0A 80 01 05 82 02 69 85'	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,
	 1st CMD: Error Action TLV using 	Secured Response Data is returned:	RQ02_0604,
	referenced format to the third record in	'AB LEN	RQ02_0605,
	EF _{RMA} (' 03') to PLAY TONE	80 01 05	RQ02_0606
	 2nd CMD: C-APDU TLV consist of 	82 LENx [Data SW1 SW2]'	
	SELECT: DFTEST		
	 3rd CMD: C-APDU TLV consist of 		
	SELECT: EFTPRU		
	 4th CMD: C-APDU TLV consist of READ 		
	BINARY as C-APDU TLV		
	Definite length coding.		

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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	RQ02_0301a,
	command structure] to the Test application with	returned:	RQ02_0302,
	AID35, which consist of the following Commands	'AF 80	RQ02_0305,
	TLV:	23 02 90 00	
	 1st CMD: Error Action TLV using normal 	23 02 90 00	RQ02_0601,
	format consist of DISPLAY TEXT	82 LEN [Data SW1 SW2]	RQ02_0605,
	- 2 nd CMD: C-APDU TLV consist of	82 02 69 85'	RQ02_0606
	SELECT: DF _{TEST} - 3 rd CMD: C-APDU TLV consist of	On the UICC-terminal interface:	RQ02 0802,
	SELECT: EFTPRU		
	- 4 th CMD: C-APDU TLV consist of READ	The proactive session is performed successfully for DISPLAY TEXT	RQ02_0802a, RQ02_0804
	BINARY	Successionly for DISI EAT TEXT	1\Q02_0004
	Indefinite length coding		
2	Send Secured Data	Secured Response Data is	RQ02_0301a,
	coded as: [Expanded Remote command structure]	returned:	RQ02_0302,
	to the Test application with AID1, which consist of	'AF 80	RQ02_0305,
	the following Commands TLV:	23 02 90 00	_ ^
	- 1 st CMD: Error Action TLV with no action	23 02 90 00	RQ02_0603,
	 2nd CMD: C-APDU TLV consist of 	82 02 69 85'	RQ02_0607,
	SELECT: DFTEST		
	 3rd CMD: C-APDU TLV consist of 		RQ02_0802,
	SELECT: EF _{TPRU}		RQ02_0802a,
	 4th 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	RQ02_0301a,
	coded as: [Expanded Remote command structure]	returned:	RQ02_0302,
	to the Test application with AID36, which consist of	'AF 80	RQ02_0305,
	the following Commands TLV:	23 02 90 00	
	 1st CMD: Error Action TLV using 	23 02 90 00	RQ02_0602,
	referenced format to the third record in	82 LEN [Data SW1 SW2]	RQ02_0604,
	EF _{RMA} ('03') for PLAY TONE	82 02 69 85'	RQ02_0605,
	 2nd CMD: C-APDU TLV consist of 		RQ02_0606,
	SELECT: DFTEST	On the UICC-terminal interface:	
	 3rd CMD: C-APDU TLV consist of 	The proactive session is performed	RQ02_0802,
	SELECT: EFTPRU	successfully for PLAY TONE	RQ02_0802a,
	 4th CMD: C-APDU TLV consist of READ 		RQ02_0804
	BINARY		
	Indefinite length coding.		

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 coded as: [Expanded Remote command structure]	'AB 07 80 01 04	RQ02_0301, RQ02_0302,
	to the UICC Shared File System Remote File	83 02 90 00'	RQ02_0306,
	Management application, which contains:	00 02 00 00	RQ02_0701,
	- Script Chaining TLV with the Script		RQ02_0702,
	Chaining Value '01' as the first command TLV		RQ02_0704,
	- SELECT: DFTEST. as C-APDU TLV		RQ04 0103
	- SELECT: EFTARU. as C-APDU TLV		RQ04_0104
	- UPDATE BINARY with data '01 01 01'		
	(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 UICC Shared File System Remote File	83 02 90 00'	RQ02_0306,
	Management application, which contains:		RQ02_0701,
	 Script Chaining TLV with the Script 		RQ02_0702,
	Chaining Value '02' as the first command TLV		RQ02_0704,
	- UPDATE BINARY with data '01 01 01'		RQ04_0103
	(100 bytes) as C-APDU TLV		RQ04_0104
	Definite length coding.		
3	Send Secured Data	'AB 81 83	RQ02_0301,
	coded as: [Expanded Remote command structure]	80 01 03	RQ02_0302,
	to the UICC Shared File System Remote File	83 LEN [Data 90 00]' where the	RQ02_0306,
	Management application, which contains:	Data should be the content of EFTARU,	RQ02_0701,
	 Script Chaining TLV with the Script 		RQ02_0702,
	Chaining Value '03' as the first command		RQ02_0704,
	TLV		
	 UPDATE BINARY with data '01 01 01' as 		RQ04_0103
	C-APDU TLV		RQ04_0104
	 READ BINARY as C-APDU TLV 		
	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 UICC Shared File System Remote File	83 02 01'	RQ02_0306,
	Management application, which contains:		
	 Script Chaining TLV with the Script 		RQ02_0817a
	Chaining Value '02' as the first command		
	TLV		
	- SELECT: DFTEST. as C-APDU TLV		
	- SELECT: EF _{TARU} . as C-APDU TLV		
	- UPDATE BINARY with data '01 01 01' as		
	C-APDU TLV		
1	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	Send Secured Data coded as: [Expanded Remote command structure] to the UICC Shared File System Remote File Management application, which contains: - Script Chaining TLV with the Script Chaining Value '01' as the first command TLV - SELECT: DFTEST. as C-APDU TLV - SELECT: EFTARU. as C-APDU TLV - UPDATE BINARY with data '01 01 01' (17 Bytes) as C-APDU TLV Indefinite length coding.	'AF 80 83 02 90 00 83 02 90 00 83 02 90 00 00 00'	RQ02_0301a, RQ02_0302, RQ02_0306, RQ04_0103 RQ04_0104
2	Send Secured Data coded as: [Expanded Remote command structure] to the UICC Shared File System Remote File Management 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 83 02 90 00 83 02 90 00 83 02 90 00 00 00'	RQ02_0301a, RQ02_0302, RQ02_0306, RQ04_0103 RQ04_0104
3	Send Secured Data coded as: [Expanded Remote command structure] to the UICC Shared File System Remote File Management application, which contains: - Script Chaining TLV with the Script Chaining Value '03' as the first command TLV - UPDATE BINARY with data '01 01 01' as C-APDU TLV - READ BINARY as C-APDU TLV Indefinite length coding.	'AF 80 83 02 90 00 83 02 90 00 83 02 90 00 83 LEN [Data 90 00] 00 00' where the Data should be the content of EF _{TARU} ,	RQ02_0301a, RQ02_0302, RQ02_0306, RQ04_0103 RQ04_0104

- 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

ed Result RQ
ed Result RQ 0 00' RQ02_0301a, RQ02_0302, RQ02_0306, RQ02_0817b, RQ02_0818, RQ02_0819

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 _{DIR} as case 4 command 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' (see note 1)	RQ04_0301, RQ04_0302, RQ04_0304 RQ01_0001, RQ01_0002, RQ01_0003, RQ02_0101, RQ02_0103 RQ02_0104 RQ02_0201

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	Response with Secured Data is returned last or only additional data response shall be '01 90 00' (see note 1)	RQ04_0301, RQ04_0304
			RQ01_0001, RQ01_0002, RQ01_0003, RQ02_0101,
			RQ02_0201
3	Send Command with Secured Data to the UICC Shared File System Remote File	Response with Secured Data is returned last or only additional data response shall	RQ04_0303,
	Management application, which contains:	be '01 69 85' or other error SW (see note	RQ01_0001,
	SELECT: DFTESTB	1)	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 (see note 1)	RQ04_0201
5	Send Command with Secured Data to the UICC Shared File System Remote File Management application which contains: SELECT: DFTEST SELECT: EFTARU. (see note 2)	Response with Secured Data is returned last or only additional data response shall be '02 90 00' (see note 1)	RQ04_0201
NOTE	1: The first byte of the response data (number of con	nmands executed within the command script) would not be
	present in case of HTTPS.	2	
NOTE	SELECT command is executed as SELECT by FI	J.	

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: DFTEST. - SELECT: EFTARU. - UPDATE BINARY with data '01 01 01'	Response with Secured Data is returned last or only additional data response shall be '03 90 00' (see note)	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	Response with Secured Data is returned	RQ01_0001
	to the UICC Shared File System Remote File	last or only additional data response shall	RQ01_0002
	Management application, which contains:	be '03 90 00' and contain all data of	RQ01_0003,
	- SELECT: DFTEST.	EFTARU starting with '01 01 01' until the end	RQ01_0005
	 SELECT: EFTARU. READ BINARY with P3/Le = '00' 	of file (see note)	RQ01_0007,
			RQ02_0101,
			RQ02_0104
			RQ02_0105
			RQ02_0201
			RQ04_0101,
			RQ04_0201,
			RQ04_0203,
			RQ04_0304
3	Send Command with Secured Data	Response with Secured Data is returned	RQ01_0001
	to the UICC Shared File System Remote File	last or only additional data response shall	RQ01_0002
	Management application, which contains:	be '01 69 86' (see note)	RQ01_0003,
	 READ BINARY with P3/Le = '00' 		RQ01_0005
			RQ01_0009,
			RQ04_0101
NOTE:	The first byte of the response data (number of com present in case of HTTPS.	mands executed within the command script)	would not be

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	Response with Secured Data is returned last or only additional data response shall	RQ04_0101, RQ04_0201,
	Management application, which contains: - SELECT: DF _{TEST} . - SELECT: EF _{LF4R4b} . - UPDATE RECORD with data '01 01 01 01'	be '03 90 00' (see note)	RQ04_0304
2	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF _{TEST} . - SELECT: EF _{LF4R4b} . - SEARCH RECORD with data '01 01 01 01'	Response with Secured Data is returned last or only additional data response shall be '03 90 00' and contain '01' data byte (see note)	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: DFTEST. - SELECT: EFLF4R4b. - 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 01' data bytes (see note)	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: DFTEST. - SELECT: EFLF4R4b. - 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 (see note)	RQ04_0101, RQ04_0201, RQ04_0304

NOTE: The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.

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

- 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	Response with Secured Data is returned	RQ04_0101,
	to the UICC Shared File System Remote File	last or only additional data response shall	RQ04_0201,
	Management application, which contains:	be '03 90 00' (see note)	RQ04_0304
	 SELECT by FID: DFTEST. 		
	- SELECT: EF _{BER-TLV} .		
	 SET DATA with '81 02 01 01' 		
2	Send Command with Secured Data	Response with Secured Data is returned	RQ04_0101,
	to the UICC Shared File System Remote File	last or only additional data response shall	RQ04_0201,
	Management application, which contains:	be'04 90 00' and contain '81 02 01 01'	RQ04_0204,
	 SELECT by FID: DFTEST. 	data bytes (see note)	RQ04_0304
	- SELECT: EFBER-TLV.		
	 RETRIEVE DATA with P3/Le = '00'and 		
	Tag value '81'		
	- GET RESPONSE		
NOTE:	The first byte of the response data (number of com	mands executed within the command script)	would not be
	present in case of HTTPS.		

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
	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' (see note)	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: EFTARU. - DEACTIVATE FILE	Last or only additional data response shall be '03 90 00' (see note)	RQ04_0101, RQ04_0201, RQ04_0304
	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF _{TEST} . - SELECT: EF _{TARU} . - READ BINARY	Response with Secured Data is returned last or only additional data response shall be '03 69 85' (see note)	RQ01_0005, RQ04_0101, RQ04_0201, RQ04_0304
NOTE:	The first byte of the response data (number of com present in case of HTTPS.	mands executed within the command script)	would not be

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: 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 90 00' (see note)	RQ04_0101, RQ04_0201, RQ04_0304
	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF _{TEST} . - SELECT: EF _{TPRU} . - 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 '03 90 00', and contain all data of EF _{TPRU} (see note)	
	 Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: SELECT: DFTEST. SELECT: EFTUACP. CHANGE PIN with data = '31 31 31 31 FF FF FF FF 32 32 32 32 FF FF FF FF' VERIFY PIN with PIN = '32 32 32 32 FF FF FF FF' 	Response with Secured Data is returned last or only additional data response shall be '04 90 00' (see note)	RQ04_0101, RQ04_0201, RQ04_0304
NOTE:	The first byte of the response data (number of com present in case of HTTPS.	mands executed within the command script)	would not be

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: DFTEST. - SELECT: EFTUACP. - 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' (see note)	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: DF _{TEST} . - SELECT: EF _{TUACP} . - 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 (see note)	RQ04_0101, RQ04_0201, RQ04_0304

Step	Description	Expected Result	RQ
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' (see note)	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 _{TEST} . - SELECT: EF _{TUACP} . - 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' (see note)	RQ04_0101, RQ04_0201, RQ04_0304
NOTE:	The first byte of the response data (number of com present in case of HTTPS.	mands executed within the command script)	would not be

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'(see note)	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: DF _{TEST} . - SELECT: EF _{TUACP} . - 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: DF _{TEST} . - SELECT: EF _{TUACP} . - 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' (see note)	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. - 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' or '03 69 83'(see note)	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: EFTUACP. - 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' (see note)	RQ04_0101, RQ04_0201, RQ04_0304

Step	Description	Expected Result	RQ
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'		RQ04_0101, RQ04_0201, RQ04_0304
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.		

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: DF _{TEST} . - CREATE FILE: EF _{XX}	Response with Secured Data is returned last or only additional data response shall be '02 90 00' (see note)	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: DF _{TEST} . - SELECT: EF _{XX} . - 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 (see note)	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 _{TARU} starting with 'FF FF FF' (see note)	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 _{TEST} . - DELETE FILE: EF _{XX}	Response with Secured Data is returned last or only additional data response shall be '03 90 00' (see note)	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 _{TEST} . - SELECT: EF _{XX} .	Response with Secured Data is returned last or only additional data response shall be '02 6A 82' (see note)	RQ04_0101, RQ04_0201, RQ04_0304
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.		

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 ADF	Response with Secured Data is returned	RQ04_0406,
	Remote File Management application which	last or only additional data response shall	RQ04_0407,
	contains:	be '02 90 00' (see note 1)	RQ04 0409,
	- SELECT: DFTESTB		RQ04 0410
	- SELECT: EFTARUB (see note 2)		
			DOO (1000
2	Send Command with Secured Data	Response with Secured Data is returned	RQ04_0408,
	to the ADF Remote File Management application,	last or only additional data response shall	RQ04_0409,
	which contains:	be '01 90 00' (see note 1)	RQ04_0410
	 SELECT by path: EFTARU 		
NOTE [·]	1: The first byte of the response data (number of cor	nmands executed within the command script) would not be
	present in case of HTTPS.		
NOTE 2	2: SELECT command is executed as SELECT by FI	D.	

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' (see note)	RQ04_0409, RQ04_0410
2	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT: DFTESTB. - SELECT: EFTARUB. - 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 (see note)	RQ04_0403, RQ04_0409, RQ04_0410
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.		

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 _{LF4R4b} . - UPDATE RECORD with data '01 01 01 01'	Response with Secured Data is returned last or only additional data response shall be '02 90 00' (see note)	RQ04_0201, RQ04_0409, RQ04_0410

Step	Description	Expected Result	RQ
2	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT by path: EFLF4R4b. - 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 (see note)	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 _{LF4R4b} . - 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 (see note)	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 _{LF4R4b} . - 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 (see note)	RQ04_0409, RQ04_0410
NOTE:			

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 _{BER-TLV} . - SET DATA with '81 02 01 01'	Response with Secured Data is returned last or only additional data response shall be '02 90 00' (see note)	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 _{BER-TLV} . - 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 (see note)	RQ04_0101, RQ04_0201, RQ04_0204, RQ04_0409, RQ04_0410
NOTE:	The first byte of the response data (number of con present in case of HTTPS.	mmands executed within the command script) would not be

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	Response with Secured Data is returned	RQ04_0101,
	to the ADF Remote File Management application,	last or only additional data response shall	RQ04_0409,
	which contains:	be '03 90 00' (see note)	RQ04_0410
	- SELECT: DFTESTB.		
	- SELECT: EFTARUB.		
	- ACTIVATE FILE		

Step	Description	Expected Result	RQ
2	Send Command with Secured Data	Last or only additional data response shall	RQ04_0101,
	to the ADF Remote File Management application,	be '03 90 00' (see note)	RQ04_0409,
	which contains:		RQ04_0410
	- SELECT: DFTESTB.		
	- SELECT: EFTARUB.		
	- DEACTIVATE FILE		
3	Send Command with Secured Data	Response with Secured Data is returned	RQ04_0409,
	to the ADF Remote File Management application,	last or only additional data response shall	RQ04_0410
	which contains:	be '03 69 85' (see note)	
	- SELECT: DF _{TESTB} .		
	- SELECT: EF _{TARUB} .		
	- READ BINARY		
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be		
	present in case of HTTPS.		

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: 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 '02 90 00' (see note)	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: 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 '02 90 00', and contain all data of EF _{TPRU} (see note)	RQ04_0409, RQ04_0410
3	 Send Command with Secured Data to the ADF Remote File Management application, which contains: SELECT by path: EF_{TUACP}. CHANGE PIN with data = '31 31 31 31 FF FF FF FF 32 32 32 32 FF FF FF FF' VERIFY PIN with PIN = '32 32 32 32 FF FF FF FF FF' 	Response with Secured Data is returned last or only additional data response shall be '03 90 00' (see note)	RQ04_0101, RQ04_0201, RQ04_0409, RQ04_0410
NOTE:	The first byte of the response data (number of com present in case of HTTPS.	mands executed within the command script)	would not be

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 _{TUACP} . - 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' (see note)	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 _{TUACP} . - 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 (see note)	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: 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 '02 90 00' (see note)	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 _{TUACP} . - 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' (see note)	RQ04_0101, RQ04_0201, RQ04_0409, RQ04_0410
NOTE:	The first byte of the response data (number of com present in case of HTTPS.	mands executed within the command script)	would not be

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: 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 '02 63 C2'(see note)	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: 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 '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: 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 '02 63 C0' (see note)	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 _{TUACP} . - 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'(see note)	RQ04_0101, RQ04_0201, RQ04_0409, RQ04_0410

Step	Description	Expected Result	RQ	
5	Send Command with Secured Data	Response with Secured Data is returned	RQ04_0101,	
	to the ADF Remote File Management application,	last or only additional data response shall	RQ04_0201,	
	which contains:	be '02 90 00' (see note)	RQ04_0409,	
	- SELECT by path: EFTUACP.		RQ04_0410	
	- UNBLOCK PIN with Data = '33 33 33 33			
	FF FF FF FF 34 34 34 34 FF FF FF FF'			
6	Send Command with Secured Data	Response with Secured Data is returned	RQ04_0101,	
	to the ADF Remote File Management application,	last or only additional data response shall	RQ04_0201,	
	which contains:	be '02 90 00' (see note)	RQ04_0409,	
	 SELECT by path: EFTUACP. 		RQ04_0410	
	- VERIFY PIN with PIN = '34 34 34 34 FF			
	FF FF FF'			
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be			
	present in case of HTTPS.			

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 ADF Remote File Management application, which contains: - SELECT: DFTESTB - CREATE FILE: EFXX	Response with Secured Data is returned last or only additional data response shall be '02 90 00' (see note)	RQ04_0101, RQ04_0201, RQ04_0409
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 EF_{XX} starting with 'FF FF FF FF FF data bytes (see note)	RQ04_0101, RQ04_0201, RQ04_0409
3	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT: DFTESTB - 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_{XX} starting with 'FF FF FF' data bytes (see note)	RQ04_0101, RQ04_0201, RQ04_0409
4	Send Command with Secured Data to the ADF Remote File Management application, which contains: - SELECT: DF _{TESTB} . - DELETE FILE: EF _{XX}	Response with Secured Data is returned last or only additional data response shall be '3 90 00' (see note)	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' (see note)	RQ04_0101, RQ04_0201, RQ04_0409
NOTE:	The first byte of the response data (number of con present in case of HTTPS.	nmands executed within the command script) would not be

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	Response with Secured Data is	RQ01_0002,
	with AID1 which contains a command:	returned to the sending entity	RQ01_0004,
	- '00 01 00 00'	containing '01 90 00' (see note)	RQ01_0007,
			RQ02_0201
2	Send Command with Secured Data to the ISD which	Response with Secured Data is	RQ01_0002,
	contains:	returned to the sending entity	RQ01_0004,
	- DELETE with AID1 - GET RESPONSE	containing '02 90 00' (see note)	RQ01_0007
			RQ05_0109
			RQ05_0301
			RQ05_0401
3	Send Command with Secured Data to the Test Application	Response with Secured Data is	RQ05_0101
	with AID1 which contains a command:	returned to the sending entity	RQ05_0401
	'00 01 00 00'	containing	RQ05_0402
		SW = '6X XX' with Response	
		Status Code in the additional data	
		expected = '09' TAR unknown	
NOTE:	The first byte of the response data (number of commands	executed within the command script	would not be
	present in case of HTTPS.		

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, which contains: - INSTALL[for install and make selectable] the Test Application with AID1 - SET STATUS to lock the applet with AID1	Response with Secured Data is returned to the sending entity containing '01 90 00' (see note)	RQ01_0002, RQ01_0004, RQ01_0007, RQ02_0201 RQ05_0501RQ05_0109 RQ05_0301
2	Send Command with Secured Data to the Test Application with AID1, which contains: - '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	RQ01_0002, RQ01_0004, RQ01_0007, RQ02_0201 RQ05_0501 RQ05_0109 RQ05_0301

NOTE: The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.

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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 :	Response with Secured Data is returned,	RQ01_0007,
	- INSTALL (for load) command with Load File AID1	last or only additional data response shall be '01 90 00 00' (see note)	RQ05_0101 RQ05_0109,
			RQ05_0301 RQ05_0302 RQ05_0601
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.		

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

Step	Description	Expected Result	RQ
1	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	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	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	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	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' (see note)	RQ05_0101 RQ05_0701
NOTE:	The first byte of the response data (number of commands present in case of HTTPS.	executed within the command script)	would not be

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

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 1	Send Command with Secured Data to the ISD, which contains: INSTALL[for install] with AID4 The UICC System Specific Parameters (Tag 'EA') and the "SIM File Access and Toolkit Application Specific Parameters" TLV object (Tag 'CA') should be set: Params = 'EF 1A C8 02 FFFF C7 02 FFFF CA 10 01 FF 01 00 10 02 01 01 03 02 00 00 03 TAR010 EA 11 80 0F 01 00 10 02 0101 0302 00 00 03	Response with Secured Data is returned, last or only additional data response shall be '01 6A 80' (see note)	RQ05_0901 RQ05_0902 RQ05_0903 RQ05_1001 RQ05_1101 RQ05_1102 RQ05_1104
	TAR010 00' INSTALL[for make selectable] with AID20		
2	Send Command with Secured Data to the Test Application with AID4 which contains: '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) (see note)	RQ05_1001

Step	Description	Expected Result	RQ
NOTE:	The first byte of the response data (number of commands	executed within the command script)	would not be
	present in case of 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,	RQ05_0802
	- INSTALL[for install] with AID3	last or only additional data response	RQ05_0807
	The UICC System Specific Parameter "UICC Toolkit	shall be '02 90 00 00'	RQ05_1002
	Application specific parameters field" (Tag '80')	(see note)	RQ05_1101
	should be set. The MSL length should be set to '00':		RQ05_1102
	Params = 'EF 08		RQ05_1104
	C8 02 FF FF		RQ05_1601
	C7 02 FF FF		
	EA 11		
	80 0F 01 00 10 02 01 01 03 02 00		
	00 03 TAR008 00'		
	- INSTALL[for make selectable] with AID3		
2	Send Command with Secured Data to the Test	Response with Secured Data is	RQ05_1101
	Application with AID3 which contains:	returned,	
	- '00 01 00 00'	last or only additional data response	
		shall be '01 90 00'	
		(see note)	
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be		
	present in case of HTTPS.		

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, which contains: - INSTALL[for install] with AID8 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'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_1002 RQ05_1201 RQ05_1202
2	 - INSTALL[for make selectable] with AID8 Send Command with Secured Data to the Test Application with AID8 which contains: '00 01 00 00' 	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_1201
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.		

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 Compact Remote command structure to the ISD, which contains: - INSTALL[for install] with AID5 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'	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_1002 RQ05_1401 RQ05_1402
0	- INSTALL[for make selectable] with AID5	Deepergrap with Coovered Data is	DO05 1401
Z	Send Command with Secured Data to the Test Application with AID5 which contains: - '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_1401
NOTE:	The first byte of the response data (number of comr be present in case of HTTPS.	mands executed within the command script) would not

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 "UICC Access	(see note)	RQ05_1401
	Application specific parameters field" (Tag '81') and		RQ05_1402
	"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		
	A000000090005FFFFFFF89E0000002 01 00 00		
	82 13 10		
	A000000090005FFFFFFF89E0000002 01 00 00'		
	- INSTALL[for make selectable] with AID18		
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'	
		(see note)	

Step	Description	Expected Result	RQ
3	Send Command with Secured Data coded as [Compact Remote command structure] 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' with response data containing all data of EF _{TARUB} starting with '01 01 01' until the end of file. (see note)	RQ05_1003
NOTE:	The first byte of the response data (number of comma be present in case of HTTPS.	ands executed within the command script	t) would not

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 value of the ISD, which contains: - INSTALL[for install] with AID18 The UICC System Specific Parameter "UICC Access Application specific 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' - INSTALL[for make selectable] with AID18	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_1004 RQ05_1201 RQ05_1202 RQ05_1401 RQ05_1402	
2	Send Command with Secured Data to the Test Application with AID18 with: - '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_1004	
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF _{TEST} . - SELECT: EF _{TARU} . - 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 _{TARU} starting with '01 01 01' until the end of file. (see note)	RQ05_1004	
NOTE:				

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' (see note)	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) (see note)	RQ05_1501
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.		

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, which contains: - INSTALL[for install] with AID3 The maximum number of timers required for Toolkit Application Specific Parameters should be set to '09': Params = 'EA 11 80 0F 01 09 10 02 0101 0302 00 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' (see note)	RQ05_1101 RQ05_1102 RQ05_1104 RQ05_1501
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) (see note)	RQ05_1501
NOTE:	The first byte of the response data (number of commands exercipt) would not be present in case of HTTPS.	ecuted within the co	mmand

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' (see note)	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) (see note)	RQ05_1502	
NOTE:	DTE: The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.			

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	
Step				
1	Send Command with Secured Data to the ISD, which	Response with	RQ05_1101	
	contains:	Secured Data is	RQ05_1102	
	- INSTALL[for install] with AID3	returned, last or only	RQ05_1104	
	The maximum number of channels required for Toolkit	additional data	RQ05_1502	
	Application Specific Parameters should be set to '08':	response shall be '01		
	Params = 'EA 11	6A 80'		
	80 0F 01 00 10 02 0101 0302 08 00 03	(see note)		
	TAR008 00'	,		
	- INSTALL[for make selectable] with AID3			
2	Send Command with Secured Data to the Test	Response with	RQ05_1502	
	Application with AID3 which contains:	Secured Data is		
	- '00 01 00 00'	returned:		
		SW = '6X XX' with		
		Response Status		
		Code in the additional		
		data expected = '09'		
		TAR unknown (CAT-		
		· · · · · · · · · · · · · · · · · · ·		
		TP/SMS), or		
		"unknown application"		
		(HTTPS)		
		(see note)	· · ·	
NOTE:				
	script) would not be present in case of HTTPS.			

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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, which contains: - INSTALL[for install] with AID3 The maximum number of services required for Toolkit Application Specific Parameters should be set to '09': Params = 'EA 11 80 0F 01 00 10 02 0101 0302 08 00 03 TAR008 09' - INSTALL[for make selectable] with AID3	Response with Secured Data is returned, last or only additional data response shall be '01 6A 80' (see note)	RQ05_1101 RQ05_1102 RQ05_1104 RQ05_1503	
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_1503	
NOTE	OTE: The first byte of the response data (number of commands executed within the command script) would not be present in case of 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, which contains: - INSTALL[for install] with AID2 The requested item identifier for Toolkit Application Specific Parameters should be set to '128': Params = 'EF 1A C8 02 FFFF C7 02 FFFF C7 02 FFFF CA 10 01 FF 01 00 10 02 01 01 03 80 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 6X XX' (6X XX is error SW) (see note)	RQ05_0901 RQ05_0902 RQ05_0903 RQ05_1506
2	Send Command with Secured Data to the Test Application with AID2which 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_1506
NOTE:	The first byte of the response data (number of command would not be present in case of HTTPS.	s executed within the con	nmand script)

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, which	Response with Secured	RQ05_1101
	contains:	Data is returned, last or	RQ05_1102
	- INSTALL[for install] with AID3	only additional data	RQ05_1104
	The requested item identifier for Toolkit Application	response shall be '01	RQ05_1506
	Specific Parameters should be set to '128':	6X XX' (6X XX is error	
	Params = 'EA 11	SW)	
	80 0F 01 00 10 02 0101 03 80 00 00 03	(see note)	
	TAR008 00'		
	- INSTALL[for make selectable] with AID3		
2	Send Command with Secured Data to the Test Application with AID3which 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-	RQ05_1506

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, which contains:	Response with	RQ05_1602
	- INSTALL[for install] with AID2	Secured Data is	RQ05_1701
	MSL field should be set to '0102':	returned, last or only	RQ05_1801
	Params = 'EF 1C	additional data	RQ05_1802
	C8 02 FFFF	response shall be '02	
	C7 02 FFFF	90 00 00'	
	CA 12 01 FF 01 00 10 02 01 01 03 02 00 02	(see note)	
	0101 03 TAR006'		
	- INSTALL[for make selectable] with AID2		
2	Send Command with Secured Data with SPI1 set to '02' to the	Response with	RQ05_1802
	Test Application with AID2 with:	Secured Data is	RQ03_0104
	- '00 01 00 00'	returned, last or only	
		additional data	
		response shall be '01	
		90 00'	
		(see note)	
NOTE:	The first byte of the response data (number of commands exec	uted within the comman	d script)
	would not be present in case of HTTPS.		

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, which contains:	Response with	RQ05_1602
	- INSTALL[for install] with AID3	Secured Data is	RQ05_1701
	MSL field should be set to '0102':	returned, last or only	RQ05_1801
	Params = 'EA 11	additional data	RQ05_1802
	80 0F 01 00 10 02 0101 0302 00 02 0101 03	response shall be '02	
	TAR008 00'	90 00 00'	
	- INSTALL[for make selectable] with AID3	(see note)	
2	Send Command with Secured Data with SPI1 set to '02' to the	Response with	RQ05_1802
	Test Application with AID3 with:	Secured Data is	RQ03_0104
	- '00 01 00 00'	returned, last or only	
		additional data	
		response shall be '01	
		90 00'	
		(see note)	
NOTE:	The first byte of the response data (number of commands exec	uted within the comman	d script)
	would not be present in case of HTTPS.		

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

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Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which contains: - INSTALL[for install] with AID2 MSL field should be set to '0106': 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 0101 03 TAR006' - INSTALL[for make selectable] with AID2	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_1602 RQ05_1701 RQ05_1801 RQ05_1802
2	Send Command with Secured Data with SPI1 set to '02' to the Test Application with AID2 with: - '00 01 00 00'	Response with Secured Data is returned: SW = '6X XX' with Response Status Code in the additional data expected = '0A' 'Insufficient Security Level'	RQ05_1802 RQ03_0102
	ne first byte of the response data (number of commands execu of be present in case of HTTPS.	ted within the command	script) would

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, which contains:	Response with	RQ05_1602
	- INSTALL[for install] with AID3	Secured Data is	RQ05_1701
	MSL field should be set to '0106':	returned, last or only	RQ05_1801
	Params = 'EA 11	additional data	RQ05_1802
	80 0F 01 00 10 02 0101 0302 00 02 0101 03	response shall be '02	
	TAR008 00'	90 00 00'	
	- INSTALL[for make selectable] with AID3	(see note)	
2	Send Command with Secured Data with SPI1 set to '02' to the	Response with	RQ05_1802
	Test Application with AID3 with:	Secured Data is	RQ03_0102
	- '00 01 00 00'	returned:	
		SW = '6X XX' with	
		Response Status	
		Code in the additional	
		data expected = '0A'	
		Insufficient Security	
		Level'	
NOTE:	The first byte of the response data (number of commands execution not be present in case of HTTPS.	uted within the command	l script) would

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

Description	Expected Result	RQ
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' (see note)	RQ05_0901 RQ05_0903 RQ05_1901 RQ05_2001 RQ05_2004
Send Command with Secured Data to the Test Application with AID6 with: - '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_2001
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' with response data containing all data of EF _{TARU} starting with '01 01 01' until the end of file. (see note)	RQ05_2001
Send Command with Secured Data to the ISD, which contains: -INSTALL[for install] with AID7 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	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_2004
Send Command with Secured Data to the Test Application with AID7 with: - '00 02 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_2004
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' with response data containing all data of EF _{TARU} starting with '01 01 01' until the end of file.	RQ05_2004 RQ03_0202
	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 Send Command with Secured Data to the Test Application with AID6 with: - '00 01 00 00' Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST. - SELECT: DFTEST. - SELECT: EFTARU. - READ BINARY with P3/Le = '00' Send Command with Secured Data to the ISD, which contains: -INSTALL[for install] with AID7 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 3 TAR013' - INSTALL[for make selectable] with AID7 Send Command with Secured Data to the Test Application with AID7 with: - '00 02 00 00'	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 CA 0B 01 00 10 01 00 00 00 3 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' (see note) - INSTALL[for make selectable] with AID6 Response with Secured Data is returned, last or only additional data response shall be '01 90 00' Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST. Response with Secured Data is returned, last or only additional data response shall be '03 90 00' with response data containing all data of EFTARU starting with '01 01 01' until the end of file. Send Command with Secured Data to the ISD, which contains: - NELECT: DFTEST. Response with Secured Data is returned, last or only additional data response shall be '03 90 00' with response data containing all data of EFTARU starting with '01 01 01' until the end of file. Send Command with Secured Data to the ISD, which contains: - INSTALL[for make selectable] with AID7 Response with Secured Data is returned, last or only additional data response shall be '02 90 00' (see note) Send Command with Secured Data to the Test Application with AID7 with: - '00 02 00 00' Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note) Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST. - SELECT: DFTEST. - SELECT: DFTEST. - SELECT: DFTEST. - SELECT: DFTEST. - SELECT: DFTEST. - SELECT

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 Pr
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Test	Procedure
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Step	Description	Expected Result	RQ
1	Send Command with Secured Data to the ISD, which	Response with Secured	RQ05_1201
	contains:	Data is returned, last or	RQ05_1202
l	-INSTALL[for install] with AID8	only additional data	RQ05_1901
	The Access Domain Parameter should be set to '00':	response shall be '02 90	RQ05_2001
	Params = 'EA 13	00 00'	RQ05_2004
	80 0B 01 00 10 00 00 00 03 TAR014 00	(see note)	
	81 04 00 01 00 00'		
	- INSTALL[for make selectable] with AID8		
2	Send Command with Secured Data to the Test Application	Response with Secured	RQ05_2001
	with AID8 with:	Data is returned, last or	
	- '00 01 00 00'	only additional data	
		response shall be '01 90	
		00'	
		(see note)	
3	Send Command with Secured Data to the UICC Shared	Response with Secured	RQ05_2001
	File System Remote File Management application, which	Data is returned, last or	
	contains:	only additional data	
	SELECT: DFTEST.	response shall be '03 90	
	SELECT: EFTARU.	00' with response data	
	READ BINARY with P3/Le = '00'	containing all data of	
		EFTARU starting with '01	
		01 01' until the end of	
		file.	
		(see note)	
4	Send Command with Secured Data to the ISD, which	Response with Secured	RQ05_2004
	contains:	Data is returned, last or	
	-INSTALL[for install] with AID9	only additional data	
	The Access Domain Parameter should be set to 'FF':	response shall be '02 90	
	Params = 'EA 13	00 00'	
	80 0B 01 00 10 00 00 00 03 TAR015 00	(see note)	
	81 04 00 01 FF 00'		
	- INSTALL[for make selectable] with AID9		
5	Send Command with Secured Data to the Test Application	Response with Secured	RQ05_2004
	with AID9 with:	Data is returned, last or	
	- '00 02 00 00'	only additional data	
		response shall be '01 90	
		00'	
6	Send Command with Secured Data to the UICC Shared	(see note)	DOOF 0004
6		Response with Secured	RQ05_2004
	File System Remote File Management application, which	Data is returned, last or	RQ03_0202
	contains:	only additional data	
		response shall be '03 90	
	SELECT: EFTARU.	00' with response data	
	READ BINARY with P3/Le = '00'	containing all data of	
		EFTARU starting with '01	
		01 01' until the end of	
		file.	
OTE:	The first byte of the response data (number of commands	(see note)	

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
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' (see note)	RQ05_0901 RQ05_0903 RQ05_1901 RQ05_2002 RQ05_2003 RQ05_2005
2	Send Command with Secured Data to the Test Application with AID6 with: - '00 03 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_2005
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DFTEST. - SELECT: EFTNU. - READ BINARY with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00 55 55 55' containing all data of EF _{TNU} . (see note)	RQ05_2005 RQ03_0202
NOTE:			

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, 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' (see note)	RQ05_1201 RQ05_1202 RQ05_2002 RQ05_2003 RQ05_2005
2	Send Command with Secured Data to the Test Application with AID8 with: - '00 03 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_2005
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF _{TEST} . - SELECT: EF _{TNU} . - READ BINARY with P3/Le = '00'	Response with Secured Data is returned, last or only additional data response shall be '03 90 00 55 55 55' containing all data of EFTNU. (see note)	RQ05_2005 RQ03_0202
NOTE:	The first byte of the response data (number of commands script) would not be present in case of HTTPS.	executed within the c	command

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' (see note)	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
NOTE:	The first byte of the response data (number of commands script) would not be present in case of HTTPS.	s executed within the co	ommand

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, which contains: -INSTALL[for install] with AID8 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' - INSTALL[for make selectable] with AID8	Response with Secured Data is returned, last or only additional data response shall be '01 6A 80' (see note)	RQ05_1201 RQ05_1202 RQ05_2006
2	Send Command with Secured Data to the Test Application with AID8 which contains: - '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)	RQ05_2006 RQ03_0202
NOTE:	The first byte of the response data (number of commands script) would not be present in case of HTTPS.	executed within the c	command

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

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 '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' - INSTALL[for make selectable] with AID8	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_1201 RQ05_1202 RQ05_2101
2	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' (see note)	RQ05_2101
3	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' with response data containing all data of EF _{TARU} starting with '01 01 01' until the end of file. (see note)	RQ05_2101 RQ03_0202
NOTE:	The first byte of the response data (number of commands script) would not be present in case of HTTPS.	N /	command

- 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:	Response with Secured Data is	RQ05_0901 RQ05_0903
	-INSTALL[for install] with AID6 The Access Domain Parameter should be set to '00': Params = 'EF 15	returned, last or only additional data response shall be	RQ05_2002 RQ05_2003
	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	'02 90 00 00' (see note)	
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 C2' (see note)	RQ05_2002 RQ05_2003
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: SELECT: DF _{TEST} . SELECT: EF _{TUACP} . 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' (see note)	RQ05_2002 RQ05_2003
4	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' (see note)	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' (see note)	RQ05_2002 RQ05_2003
6	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - 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 EFTUACP starting with '01 01 01' until the end of file. (see note)	RQ05_2002 RQ05_2003 RQ03_0201 RQ03_0202
NOTE:	The first byte of the response data (number of commands script) would not be present in case of HTTPS.	executed within the c	command

- 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' (see note)	RQ05_1201 RQ05_1202 RQ05_2002 RQ05_2003	
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 C2' (see note)	RQ05_2002 RQ05_2003	
3	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: SELECT: DF _{TEST} . SELECT: EF _{TUACP} . 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' (see note)	RQ05_2002 RQ05_2003	
4	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' (see note)	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' (see note)	RQ05_2002 RQ05_2003	
6	Send Command with Secured Data to the UICC Shared File System Remote File Management application, which contains: - SELECT: DF _{TEST} . - SELECT: EF _{TUACP} . - 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_{TUACP} starting with '01 01 01' until the end of file. (see note)	RQ05_2002 RQ05_2003 RQ03_0201 RQ03_0202	
NOTE:	NOTE: The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.			

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, which contains: -INSTALL[for install] with AID10 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' - INSTALL[for make selectable] with AID10	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_0901 RQ05_0903 RQ05_2301 RQ05_2303
2	Send Command with Secured Data to the ISD, which contains: -INSTALL[for install] with AID11 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' - INSTALL[for make selectable] with AID11	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_2301
3	Start Proactive Session: Check Activation Priority	AID10 is triggered before AID11	RQ05_2301
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.		

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, which	Response with	RQ05_1101	
	contains:	Secured Data is	RQ05_1102	
	-INSTALL[for install] with AID12	returned, last or	RQ05_1104	
	The Priority level should be set to '01':	only additional data	RQ05_2301	
	Params = 'EA 0D	response shall be	RQ05_2303	
	80 0B 01 00 10 00 00 00 03 TAR018 00'	'02 90 00 00'		
	 INSTALL[for make selectable] with AID12 	(see note)		
2	Send Command with Secured Data to the ISD, which	Response with	RQ05_2301	
	contains:	Secured Data is		
	-INSTALL[for install] with AID13	returned, last or		
	The Priority level should be set to 'FF':	only additional data		
	Params = 'EA 0D	response shall be		
	80 0B FF 00 10 00 00 00 03 TAR019 00'	'02 90 00 00'		
	 INSTALL[for make selectable] with AID13 	(see note)		
3	Start Proactive Session: Check Activation Priority	AID12 is triggered	RQ05_2301	
		before AID13		
NOTE:	The first byte of the response data (number of commands	executed within the c	command	
	script) would not be present in case of HTTPS.			

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, which	Response with	RQ05_0901
	contains:	Secured Data is	RQ05_0903
	-INSTALL[for install] with AID10	returned, last or	RQ05_2302
	The Priority level should be set to '01':	only additional data	
	Params = 'EF 15	response shall be	
	C8 02 FF FF	'02 90 00 00'	
	C7 02 FF FF	(see note)	
	CA 0B 01 FF 01 00 10 00 00 03 TAR016'		
	 INSTALL[for make selectable] with AID10 		
2	Send Command with Secured Data to the ISD, which	Response with	RQ05_2302
	contains:	Secured Data is	
	-INSTALL[for install] with AID11	returned, last or	
	The Priority level should be set to '01':	only additional data	
	Params = EF 15	response shall be	
	C8 02 FF FF	'02 90 00 00'	
	C7 02 FF FF	(see note)	
	CA 0B 01 FF 01 00 10 00 00 03 TAR017'		
	 INSTALL[for make selectable] with AID11 		
3	Start Proactive Session: Check Activation Priority	AID10 is triggered	RQ05_2302
		before AID11	
NOTE:	The first byte of the response data (number of commands	executed within the c	ommand
	script) would not be present in case of HTTPS.		

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, which	Response with	RQ05_1101
	contains:	Secured Data is	RQ05_1102
	-INSTALL[for install] with AID12	returned, last or	RQ05_1104
	The Priority level should be set to '01':	only additional data	RQ05_2302
	Params = 'EA 0D	response shall be	
	80 0B 01 00 10 00 00 00 03 TAR018 00'	'02 90 00 00'	
	- INSTALL[for make selectable] with AID12	(see note)	
2	Send Command with Secured Data to the ISD, which	Response with	RQ05_2302
	contains:	Secured Data is	
	-INSTALL[for install] with AID13	returned, last or	
	The Priority level should be set to '01':	only additional data	
	Params = 'EA 0D	response shall be	
	80 0B 01 00 10 00 00 00 03 TAR019 00'	'02 90 00 00'	
	- INSTALL[for make selectable] with AID13	(see note)	
3	Start Proactive Session: Check Activation Priority	AID12 is triggered	RQ05_2302
		before AID13	
NOTE:	The first byte of the response data (number of commands	executed within the o	command
	script) would not be present in case of HTTPS.		

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

Description	Expected Result	RQ
Send Command with Secured Data to the ISD, which contains: -INSTALL[for install] with AID2 TAR026 value should be set: Params = 'EF 1A C8 02 FF FF C7 02 FF FF CA 10 01 FF 01 00 10 02 0101 0302 00 00	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_0901 RQ05_0902 RQ05_0903 RQ05_2401 RQ05_2405
- INSTALL[for make selectable] with AID2		
Send Command with Secured Data to the Test Application with TAR006 , with: - '00 01 00 00'	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"	RQ05_2405
Send Command with Secured Data to the Test Application with TAR026 , with: - '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00'	RQ05_2405
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 0101 0302 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' (see note)	RQ05_2406
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"	RQ05_2406
	Send Command with Secured Data to the ISD, which contains: -INSTALL[for install] with AID2 TAR026 value should be set: Params = 'EF 1A C8 02 FF FF CA 10 01 FF 01 00 10 02 0101 0302 00 00 03 TAR026' - INSTALL[for make selectable] with AID2 Send Command with Secured Data to the Test Application with TAR006 , with: - '00 01 00 00' Send Command with Secured Data to the Test Application with TAR026 , with: - '00 01 00 00' 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 C7 02 FF FF CA 10 01 FF 01 00 10 02 0101 0302 00 00 03 TAR026' - INSTALL[for make selectable] with AID14 Send Command with Secured Data to the Test Application with AID14 which contains:	Send Command with Secured Data to the ISD, which contains: -INSTALL[for install] with AID2 TAR026 value should be set: Params = 'EF 1A C8 02 FF FF C7 02 FF FF CA 10 01 FF 01 00 10 02 0101 0302 00 00 03 TAR026' -INSTALL[for make selectable] with AID2 Response with Secured Data is returned: Send Command with Secured Data to the Test Application with TAR006 , with: - '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' with TAR026 , with: - '00 01 00 00' Send Command with Secured Data to the Test Application with TAR026 , with: - '00 01 00 00' Response with Secured Data is returned; last or only additional data response shall be '01 90 00' (see note) Send Command with Secured Data to the ISD, which contains: - 'NSTALL[for install] with AID14 TAR026 value should be set: Params = 'EF 1A C8 02 FF FF C7 02 F

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

contains: Secured Data is RC -INSTALL[for install] with AID3 returned, last or RC TAR028 value should be set: only additional data RC Params = 'EA 11 80 0F 01 00 10 02 0101 0302 00 00 03 '02 90 00 00' RC TAR028 00' (see note) '02 90 00 00' RC - INSTALL[for make selectable] with AID3 Response with RC 2 Send Command with Secured Data to the Test Application Response with RC with TAR008 , with: - '00 01 00 00' SW = '6X XX' with SW = '6X XX' with	Q05_1101 Q05_1102 Q05_1104 Q05_2401 Q05_2403 Q05_2405 Q05_2405			
with TAR008 , with: - '00 01 00 00' SW = '6X XX' with	Q05_2405			
Response Status Code in the additional data expected = '09' TAR unknown (CAT-TP/SMS), or "unknown application" (HTTPS)				
	Q05_2405			
4 Send Command with Secured Data to the ISD, which contains: Response with Secured Data is Response with Secured Data is -INSTALL[for install] with AID15 returned, last or only additional data TAR028 value should be set: only additional data Params = 'EA 11 response shall be 80 0F 01 00 10 02 0101 0302 00 00 03 '01 6A 80' TAR028 00' (see note) - INSTALL[for make selectable] with AID15	Q05_2406			
5 Send Command with Secured Data to the Test Application with AID15 which contains: - '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"	Q05_2406			
(HTTPS)	NOTE: The first byte of the response data (number of commands executed within the command script) would not be present in case of 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, which contains: -INSTALL[for install] with AID2 TAR006 and TAR007values should be set: Params = 'EF 1D 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' - INSTALL[for make selectable] with AID2	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_0901 RQ05_0902 RQ05_0903 RQ05_2402 RQ05_2403	
2	Send Command with Secured Data to the Test Application with TAR006 value, which contains: - '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_2402	
3	Send Command with Secured Data to the Test Application with TAR007 value, which contains: - '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_2402	
NOTE:	NOTE: The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.			

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, which contains: -INSTALL[for install] with AID3 TAR008 and TAR009values should be set: Params = 'EA 14 80 12 01 00 10 02 0101 0302 00 00 06 TAR008 TAR009 00' - INSTALL[for make selectable] with AID3	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_1101 RQ05_1102 RQ05_1104 RQ05_2402 RQ05_2403

Step	Description	Expected Result	RQ	
2	Send Command with Secured Data to the Test Application with TAR008 value, which contains: - '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_2402	
3	Send Command with Secured Data to the Test Application with TAR009 value, which contains: - '00 01 00 00'	Response with Secured Data is returned, last or only additional data response shall be '01 90 00' (see note)	RQ05_2402	
NOTE:				

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, which	Response with	RQ05_0901
	contains:	Secured Data is	RQ05_0902
	-INSTALL[for install] with AID16	returned, last or	RQ05_0903
	(AID16 contains TAR020 value)	only additional data	RQ05_2404
	The TAR value length in install parameters should be set	response shall be	
	to '00':	'02 90 00 00'	
	Params = 'EF 17	(see note)	
	C8 02 FF FF		
	C7 02 FF FF		
	CA 0D 01 FF 01 00 10 02 01 01 03 02 00		
	00 00'		
	-INSTALL[for make selectable] with AID16		
2	Send Command with Secured Data to the Test Application	Response with	RQ05_2404
	with TAR010 value, which contains:	Secured Data is	
	- '00 01 00 00'	returned, last or	
		only additional data	
		response shall be	
		'01 90 00'	
		(see note)	
NOTE:	The first byte of the response data (number of commands script) would not be present in case of HTTPS.	executed within the c	command

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, which	Response with	RQ05_1101
	contains:	Secured Data is	RQ05_1102
	-INSTALL[for install] with AID17	returned, last or	RQ05_1104
	(AID17 contains TAR021 value)	only additional data	RQ05_2404
	The TAR value length in install parameters should be set	response shall be	
	to '00':	'02 90 00 00'	
	Params = 'EA 0E	(see note)	
	80 0C 01 00 10 02 0101 0302 00 00 00		
	00'		
	-INSTALL[for make selectable] with AID17		
2	Send Command with Secured Data to the Test Application	Response with	RQ05_2404
	with TAR021 value, which contains:	Secured Data is	
	- '00 01 00 00'	returned, last or	
		only additional data	
		response shall be	
		'01 90 00'	
		(see note)	
NOTE:	The first byte of the response data (number of commands	executed within the c	command
	script) would not be present in case of HTTPS.		

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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, which contains: -INSTALL[for install] with AID19 The "Reader mode protocol data Type A" TLV object (tag '86') should be set. Params= EF 0F C7 02 FF FF C8 02 FF FF B0 05 86 01 03 00' -INSTALL[for make selectable] with AID19	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_2502 RQ05_2504 RQ05_2506 RQ05_2601 RQ05_2503
2	Activate the SWP interface and perform HCI initialization	During the HCI initialization the UICC shall set DATARATE_MAX to '03'	RQ05_2601
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.		

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, which contains: -INSTALL[for install] with AID20 The "Reader mode protocol data Type B" 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' -INSTALL[for make selectable] with AID20	Response with Secured Data is returned, last or only additional data response shall be '02 90 00 00' (see note)	RQ05_2502 RQ05_2504 RQ05_2506 RQ05_2503
2	Activate the SWP interface and perform HCI initialization	During the HCI initialization the UICC shall set the parameters to the values specified in step 1	RQ05_2701
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.		

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' (see note)	RQ05_2501
NOTE:	The first byte of the response data (number of commar script) would not be present in case of HTTPS.	nds executed within the o	command

6.5.4 LOAD

6.5.4.1 Test case 1: LOAD with DES for DAP verification

• 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 : INSTALL[for load] command with Load File AID1 LOAD command with DES DAP GET RESPONSE	5	RQ05_0109 RQ05_0301, RQ05_0606, RQ05_2801, RQ05_2802

	Expected Result	RQ	
Send Secured Data to the ISD, which contains:	Response with	RQ02_0104	
 INSTALL[for install and make selectable] the applet 	Secured Data is	RQ05_0109	
with AID1	returned, last or	RQ05_0301	
GET RESPONSE	5	RQ05_0605	
	'02 90 00' and		
	contain '00' data		
	byte		
	(see note)		
Send Secured Data to the Test Application with	Response with	RQ05_0109	
AID1,which contains:	Secured Data is	RQ05_0301	
- '00 01 00 00'	returned, last or only additional data		
	'01 90 00'		
	(see note)		
The first byte of the response data (number of commands executed within the command			
	- INSTALL[for install and make selectable] the applet with AID1 GET RESPONSE Send Secured Data to the Test Application with AID1,which contains: - '00 01 00 00'	 - INSTALL[for install and make selectable] the applet with AID1 GET RESPONSE GET RESPONSE Secured Data is response shall be '02 90 00' and contain '00' data byte (see note) Send 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' (see note) The first byte of the response data (number of commands executed within the or 	

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	Response with	RQ05_0109
	version number (KVN) and key identifiers of KIc, KID and	Secured Data is	RQ05_0301,
	DEK as defined in ETSI TS 102 225 [2], to the Test	returned, last or	RQ05_0110
	Application with AID4 which contains :	only additional data	
	- PUT KEY command with new 3DES 2 keys	response shall be	RQ05_2901,
	- GET RESPONSE	'02 90 00' and	RQ05_2904,
	The encrypting key to be used is the DEK of the same key	contain 'KVN	RQ05_2905,
	version number (KVN) as the KIc and KID in the	KeyCheckValue1	RQ05_2906,
	Command Packet containing the PUT KEY command.	KeyCheckValue2	
		KeyCheckValue3',	RQ05_3105
		secured using keys	
		as indicated in the	
		Command Packet.	

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

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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

Step	Description	Expected Result	RQ
1	Send Secured Data to create new key set 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 16 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	RQ05_2901, RQ05_2904, RQ05_2905, RQ05_2906, RQ05_3101, RQ05_3102, RQ05_3103

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	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.	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, RQ05_3109
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 (see note)	RQ05_3101, RQ05_3103
NOTE:			

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
1	Send Secured Data with key version number and key identifiers of KIc, KID and DEK as defined in ETSI	Response with Secured Data is	RQ05_2901, RQ05_2904,
	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.	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_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 (see note)	RQ05_3101, RQ05_3103
NOTE:	The first byte of the response data (number of commands script) would not be present in case of HTTPS.	executed within the c	command

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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: - GET STATUS with P1='80' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'(see note 1), containing 'EA LEN 80 LEN MP ID 00/01'(see note 2)	RQ05_0109 RQ05_0301 RQ05_3201, RQ05_3203, RQ05_3301, RQ05_3302, RQ05_3303
2	Send Secured Data to the Test Application with AID1, which contains: - GET STATUS with P1= '40' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'(see note 1), containing 'EA LEN 80 LEN MP ID 00/01'(see note 2)	RQ05_0109 RQ05_0301 RQ05_3201, RQ05_3203,
3	Send Secured Data to the Test Application with AID1, which contains: - GET STATUS with P1= '20' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'(see note 1), containing 'EA LEN 80 LEN MP ID 00/01'(see note 2)	RQ05_0109 RQ05_0301 RQ05_3201, RQ05_3203,

Step	Description	Expected Result	RQ			
4	Send Secured Data to the Test Application with AID1, which contains: - GET STATUS with P1= '10' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'(see note 1), containing 'EA LEN 80 LEN MP ID 00/01'(see note 2)	RQ05_0109 RQ05_0301 RQ05_3201, RQ05_3203,			
	 NOTE 1: The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS. NOTE 2: Values of MP (menu entry position) or ID (menu 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 AID1, which contains: - GET STATUS with P1= 'D0' - GET RESPONSE	Response with Secured Data is returned, last or only additional data response shall be '02 90 00'(see note 1), containing 'EA LEN 80 LEN MP ID 00/01'(see note 2)	RQ05_0109 RQ05_0301 RQ05_3201, RQ05_3203,		
 NOTE 1: The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS. NOTE 2: 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: - SET STATUS to lock the applet with AID1	Secured Data is	RQ01_0002, RQ05_0501

Step	Description	Expected Result	RQ				
2	Send Secured Data coded to the ISD, which contains:	Response with	RQ05_3201,				
	 GET STATUS of the applet with AID1, i.e. 	Secured Data is	RQ05_3203,				
	'80 F2 P1 02 02 4F LEN AID1 00'	returned, last or	RQ05_3301,				
	- GET RESPONSE	only additional data	RQ05_3302,				
		response shall be	RQ05_3303				
		'02 90 00'(see note					
		1), containing 'EA					
		LEN 80 LEN MP ID					
		00/01'(see note 2)					
NOTE 1	TE 1: The first byte of the response data (number of commands executed within the command						
	script) would not be present in case of HTTPS.						
NOTE 2	: Values of MP (menu entry position) or ID (menu entry ide	ntifier) should not be o	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	RQ05_0109,
	- GET DATA with P1P2 = '0066' (Card Data)	Secured Data is	RQ05_0301,
	- GET RESPONSE	returned, last or	
		only additional data	RQ05_3401,
		includes tag '66'	RQ05_3402
		and ends with '02	
		90 00'(see note 1)	
2	Send Secured Data to the ISD, which contains:	Response with	RQ05_0109,
	 GET DATA with P1P2 = '00E0' (Key Information 	Secured Data is	RQ05_0301,
	Template)	returned, last or	
	- GET RESPONSE	only additional data	RQ05_3401,
		includes tag 'E0'	RQ05_3402
		and ends with '02	
		90 00'(see note 1)	
3	Send Secured Data to the Application Provider SD with	Response with	RQ05_0109,
	AID40, which contains:	Secured Data is	RQ05_0301,
	- GET DATA with P1P2 = '00E0' (Key Information	returned, last or	
	Template)	only additional data	RQ05_3401,
	- GET RESPONSE	includes tag 'E0'	RQ05_3404
		and ends with '02	
		90 00' (see note 1)	
4	Send Secured Data to the ISD, which contains:	Response with	RQ05_0109,
	- GET DATA with P1P2 = 'FF21' (Extended Card	Secured Data is	RQ05_0301,
	resources information)	returned, last or	RQ05_3405
	- GET RESPONSE	only additional data	RQ05_3501,
		includes '81 LEN	RQ05_3503,
		NN 82 LEN NVM	RQ05_3504
		83 LEN VM' and	
		end with '02 90 00'	
NOTE 4		(see notes 1 and 2)	
NOTE 1	: The first byte of the response data (number of commands script) would not be present in case of HTTPS.	s executed within the c	command
NOTE 2	: Values and length of NN (number of installed applications	s), NVM (non volatile n	nemory) and
	VM (volatile memory) should not be checked.		2,

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 AID1, which contains: - STORE DATA	Response with Secured Data is returned, last or only additional data ends with '01 90 00'	RQ05_0109, RQ05_3601	
NOTE:	The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS.			

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 AID1, which contains: - STORE DATA with Forbidden Load File List	Response with Secured Data is returned, last or only additional data ends with '01 90 00'	RQ05_3602- 11			
	NOTE: The first byte of the response data (number of commands executed within the command script) would not be present in case of HTTPS					

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	Response with	RQ02_0901,
	coded as: [Compact Remote command structure]	Secured Data is	RQ05_0107,
	to the UICC Shared File System Remote File	returned	RQ05_0108
	Management application [TAR value for Compact	last or only additional	
	format], which contains:	data response shall	
	- SELECT: DF _{SIMTEST} .	be '03 90 00' and	
	- SELECT: EFTARU.	contain all data of	
	 READ BINARY with P3/Le = '00' 	EFTARU until the end	
		of file	
2	Send Command with Secured Data	Secured Response	RQ02_0902,
	coded as: [Expanded Remote command structure]	Data is returned:	RQ05_0107,
	to the UICC Shared File System Remote File	'AB 7F	RQ05_0108
	Management application [TAR value for Expanded	80 01 03	
	format], which contains:	23 LEN [Data	
	- SELECT: DF _{SIMTEST} .	90 00]' where the	
	- SELECT: EFTARU.	Data should be the	
	- READ BINARY	content of EFTARU	
	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	SW = '6X XX' with	RQ04_0102,
	coded as: [Expanded Remote command structure]	Error Response	RQ05_0108
	to the UICC Shared File System Remote File	Status Code in the	
	Management application [TAR value for Compact	additional data	
	format], which contains:	expected = '09' TAR	
	- SELECT: DF _{SIMTEST} .	unknown or other	
	- SELECT: EFtaru.	error	
	- READ BINARY		
	TLV Structure: C-APDU TLV		
	Definite length coding		
2	Send Command with Secured Data	SW = '6X XX' with	RQ04_0102,
	coded as: [Compact Remote command structure]	Error Response	RQ05_0108
	to the UICC Shared File System Remote File	Status Code in the	
	Management application [TAR value for Expanded	additional data	
	format], which contains:	expected = '09' TAR	
	- SELECT: DFSIMTEST.	unknown or other	
	- SELECT: EF _{TARU} .	error	
	- 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 47 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

Table 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]

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

B.1 DF_{TEST} (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_{TNU} (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			Update activity	: low
Access Condi	tions:			
READ		ALWAYS		
UPDA	ГЕ	NEVER		
ACTIV	'ATE	ALWAYS		
DEAC	TIVATE	ALWAYS		
Bytes		Description		Length
1 - 3		55 55 55		3 bytes

B.1.3 EF_{TARU} (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	ALWA	AYS				
UPDA	TE ALWA	AYS				
ACTIV	ATE ALWA	AYS				
DEAC	TIVATE ALWA	AYS				
Bytes	Description Length					
1 - 120	FF FF 120 bytes					

B.1.4 EF_{TUACP} (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'.

120 bytes

B.1.5 EF_{TPRU} (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'.

FF ... FF

	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		Length						
1 - 120	FF FF 120 bytes							

B.1.6 EF_{LF4R4b}

1 - 120

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 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 FC'.

Identifie	r: '6F XX'	Structure: linear fixed					
Reco	rd length: 10 byte	6	Update	e activity: low			
Access Condition	ons:						
READ		ALWA	YS				
UPDATI	E	ALWAYS					
DEACTI	VATE	ALWAYS					
ACTIVA	TE	ALWA	YS				
INCREA	SE	ALWA	AYS				
Bytes	Description Length						
1 to 10	LF4R10b test contents 10 bytes						

Coding:

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

B.1.7 EFBER-TLV

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

Identifie	r: '6F XX'		Structure: BEI	R-TLV
Fil	e size: 10 bytes		Update	activity: low
Access Condition	ons:			
READ		ALWA	YS	
UPDATI	E	ALWA	YS	
DEACTI	VATE	ALWA	YS	
ACTIVA	TE	ALWA	YS	
INCREA	SE	ALWA	YS	
Bytes		Description	n	Length
1 to 10	Test	10 bytes		

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'.

DF_{TESTB} (Tests DF under ADF_1) **B.2**

DF identifier B.2.1

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'.

EFTARUB (Transparent Always Read and Update B) B.2.2

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'.

Identifier: '6F	XX'	Structure: transparent
File size	: 120 bytes	Update activity: low
Access Conditions:		
READ	ALWAYS	
UPDATE	ALWAYS	
ACTIVATE	ALWAYS	
DEACTIVATE	ALWAYS	
Bytes	Description	Length
1 - 120	FF FF	120 bytes

DFTELECOM **B.3**

B.3.1 EF_{RMA} (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_{TELECOM} ('7F10') as defined in ETSI TS 102 222 [9].

	Identifier: '6F53'		Structure: linear fixed					
	Record length: 3	6 bytes	Upda	te activity: low				
Access Condi	tions:							
READ		ADM						
UPDA	UPDATE ADM							
ACTIV	ATE ADM							
DEAC	TIVATE	ADM						
Bytes		Descripti	ion	Le	ength			
1 to 36	Test content as defined below 36 bytes				bytes			

	DISPLAY												
	TEXT	D0	1A	81	03	01	21	80	82	02	81	02	8D
1 st record:		0F	04	54	6F	6F	6C	6B	69	74	20	54	65
Tecolu.		73	74	20	31	FF							
		_											
	REFRESH	D0	10	81	03	01	01	01	82	02	81	82	92
		05	01	3F	00	2F	E2	FF	FF	FF	FF	FF	FF
2 nd record:		FF											
	PLAY	D0	1B	81	03	01	20	00	82	02	81	03	85
3 rd record:	TONE	09	44	69	61	6C	20	54	6F	6E	65	8E	01
5 recolu.		01	84	02	01	05	FF						

C.1 Commands

Table C.1

Command	Description													
	SELECT DF	<text></text>	> with F	ID 'd1 o	d2': '00	A4 00 (0C 02 d	11 d2' (r	no resp	onse da	ata)			
	SELECT EF (Compact for		▶ with F	ID 'e1 e	e2': '00	A4 00 (04 02 e	1 e2' (re	eturn F	CP tem	plate) -	for T=()	
SELECT		SELECT EF <text> with FID 'e1 e2': '00 A4 00 04 02 e1 e2 00' (return FCP template) for T=1 (Expanded Format)</text>									=1			
	SELECT EF	<text></text>	with F	ID 'e1 e	e2': '00	A4 00 (04 02 e	1 e2'						
	SELECT EF	<text></text>	with F	ID 'e1 e	e2' as c	ase 4: '	00 A4 (00 04 0	2 e1 e2	2 00'				
	Select Apple	t with A	AID '00	A4 04 (00 LC A	ND' (SE	LECT	by DF r	ame)					
	SELECT by p	oath: '0	0 A4 0	9 00 LC	File_p	ath'								
UPDATE BINARY	UPDATE BIN	JARY v	with dat	a 'XX X	(X XX':	'00 D6	00 00 C)3 XX X	X XX'					
	TERMINAL F	PROFIL	E shou	uld indio	cate su	pport of	followi	ng feat	ures:					
			Item			Termina								
TERMINAL			1	<u>1.1</u> 3.1		Profile [
PROFILE			17 21	3.5		DISPLA PLAY T		1						
			24	3.8		REFRE								
			30	4.6	1	SET UF	9 MENU	J						
SET STATUS	Set Status to	lock th	ne apple	et with	the AID	: '80 FC) 40 FF	Len Al	D' -					
ENVELOPE_SMS_P P	'80 C2 00 00 D1 XX 82 02 82 81 86 02 80 01 8B YY 40 05 81 12 9 where the D	50 F3 9											PI2 = '2'	1'
PROACTIVE	BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D	٦
COMMAND: DISPLAY TEXT		0F	04	54	6F	6F	6C	6B	69	74	20	54	65	
_		73	74	20	31									
TERMINAL RESPONSE:														
DISPLAY TEXT	BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00	
PROACTIVE														
COMMAND: PLAY	BER-TLV:	D0 09	1B	81	03	01	20	00	82	02	81	03 8E	85 01	
		ii iu	44	69	61	6C	20	54	6F	6E	65	INE	101	
TONE		01	84	02	01	05								
				02	01									

Command	Description												
PROACTIVE	BER-TLV:	D0	10	81	03	01	01	01	82	02	81	82	92
COMMAND:	DER-ILV.		-	3F		2F	E2	01	02	02	01	02	92
REFRESH		05	01	3F	00	ZF	E2						
TERMINAL													
RESPONSE:													
REFRESH													
READ BINARY	'00 B0 00 00 (00'											
READ RECORD	'00 B2 01 04												
UPDATE RECORD	'00 DC 00 04		ita' (cui	rent m	nde)								
SEARCH RECORD	00 A2 00 04				Jucj								
INCREASE	00 32 00 04			without	the leaf	100' h	to for T	0 (Cor	mnaat	Earmat)	١		
				without	the las	. UU by		=0 (C0	npact	ronnal))		
SET DATA	'00 DB 00 80												
RETRIEVE DATA	'00 CB 00 P2					Je							
ACTIVATE FILE	'00 44 00 00 (
DEACTIVATE FILE	'00 04 00 00 0			ng curre	ent file								
VERIFY PIN	'00 20 00 01 (08 PIN	•										
CHANGE PIN	'00 24 00 01 ⁻	10 Data	a' with	Data =	PINold	PINne	W						
ENABLE PIN	'00 28 00 01 0	08 PIN	'										
DISABLE PIN	'00 26 00 01 (08 PIN											
UNBLOCK PIN	'00 2C 00 01	10 Dat	a' with	Data =	PINtol	Jnblock	PINne	W					
DELETE	'80 E4 00 00												
CREATE FILE		CREAT FILE EF _{XX} : '0X E0 00 00 14 62 13 82 02 41 21 83 02 EF1 EF2 8A 01 05 8C 03 03 00 00 80 01 05' where EF1 EF2 is the FID											
DELETE FILE	DELETE FILE	DELETE FILE EFxx: 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[for I length of Para defined in the INSTALL[for i	ams fie test ca	ld ('00' ase	if no Pa	arams)								
	INSTALLIOF	nstailj:	80 E0	02 00									
						0 ELF 0 EM A							
INSTALL						-							
							ication A))				
							(X XX (p			04 00	00.04.5	-0	
							C9 0A 8						
	in the test				ł	arams] 00' wh	ere Pa	rams a	re the p	arame	ers as	aennea
	in the test				4 - 1 - 1 - 1								
	INSTALL[for i						•	1 4	(D /		
	LOAD: '80 E6	P1 P2	2 LC C ²	4 Len D	vata, wł	iere Le	n is the	length	of Data	a and th	e Data	is the L	load File
	Data Block	-0 - /	D .										
	LOAD with DI						~						
LOAD	'80 E6 P1 P2							Data,					
20/10	where Sign is	the Lo	bad File	Data E	Block D	ES Sig	nature,						
	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 Lo	ad File	e Data	Block									
GET RESPONSE	'00 C0 00 00	Len' w	here Le	en is the	e length	n of dat	a availa	ble					
GET STATUS	'80 F2 P1 02	02 4F	00 00'										
GET DATA	'80 CA P1 P2	00'											
	STORE DATA 07 08 09 0A 0				(DGI f	ormat):	'80/84 I	E2 88 0	0 13 0	0 70 10	00 01	02 03 0	4 05 06
STORE DATA	STORE DATA FLF-AID', 3rd	A with	Forbido	den Loa									
	File #1 AID												

Command	Description
	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 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 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 existing DES keys '84 D8 KVN 01 Len FF 83 08 XXX 03 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 the one that already exists.
PUT KEY	PUT KEY command with new 16 bytes AES key: '84 D8 00 81 Len KVN FF 88 10 XXXX 03 YY YY 01 18 01 00 FF 88 10 XXXX 03 YY YY YY 01 14 01 00 FF 88 10 XXXX 03 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 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.

C.2 **Remote APDU Format**

Compact Remote Application Data Format C.2.1

FFS

Expanded Remote Application Data Format C.2.2

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'

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

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.

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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	TAR4: 'B0 01 40'
detection as defined in ETSI TS 101 220 [6]	

E.3 AID and TAR

Applet AID	AID	TAR	Description
AID1	FFS	FFS	Toolkit Test Applet
AID2	FFS	FFS	SIM Toolkit application with menu
AID3	FFS	FFS	UICC Toolkit application with menu
AID4	FFS	FFS	SIM Toolkit application with menu and UICC Toolkit application with menu combined
AID5	FFS	FFS	UICC Toolkit Admin Access application
AID6	FFS	FFS	SIM Toolkit Access application to update EF_TARU, EF_TNU, EF_TUACP
AID7			SIM Toolkit Access application to update EF_TARU
AID8	FFS	FFS	UICC Toolkit Access application to update EF_TARU, EF_TNU, EF_TUACP
AID9			UICC Toolkit Access application to update EF_TARU
AID10			SIM Toolkit application with Proactive Session: Check Application Priority
AID11	FFS	FFS	SIM Toolkit application with Proactive Session: Check Application Priority
AID12			UICC Toolkit application with Proactive Session: Check Application Priority
AID13			UICC Toolkit application with Proactive Session: Check Application Priority
AID14			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			UICC Toolkit Access and Admin Access application with menu to update EF_TARUB
AID19			Contactless application - Reader mode typeA
AID20			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 EFRMA
AID34			UICC Toolkit application, sends Immediate Action Error upon DISPLAY TEXT
AID35			UICC Toolkit application, starts proactive session with DISPLAY TEXT on error
AID36			UICC Toolkit application, starts proactive session with PLAY TONE on error
AID40	FFS	FFS	Application Provider SD

Annex F (informative): FFS requirements

RQ No.	Clause	Description	
RQ01_0006	4	Warnings or procedure bytes do not halt processing of the command list	
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]	
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.	
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_0505	5.2.1.2	In case of "proactive session indication", execution of the remaining script shall be suspended if a proactive session is ongoing.	
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 resumed after the end of the proactive session. If the UICC cannot suspend the script execution, e.g. because there is not enough internal resources available, the UICC shall terminate the processing of the script and return a "suspension error" in the response data.	
RQ02_0507	5.2.1.2	If no "proactive session indication" is present as first Command TLV and another proactive session is ongoing, proactive commands in the script shall be silently ignored.	
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.	
RQ05_0303	8.2	if additional application provider security as defined in clause 10.2 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_0304	8.2	if additional application provider security as defined in clause 10.2 is applied, the class byte shall indicate that an APDU command includes no secure messaging.	
RQ05_0303	8.2.1	Script chaining may be used for confidential application management as specified in clause 10 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 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.	
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 [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_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.	
RQ05_0806	8.2.1.3.2	In case of JavaCardTM applications, If the register() method is invoked the instance AID present in the INSTALL [for install] command and the AID within the Load File, as specified in GlobalPlatform Card Specification [5], should be the same.	
RQ05_1103	8.2.1.3.2. 2.1	None of the toolkit resources will be accessible if the UICC Toolkit Application specific parameters are missing.	
RQ05_1105	8.2.1.3.2. 2.1	Any additional parameters to RQ05_1104 shall be ignored by the card.	
RQ05_1301	8.2.1.3.2. 2.3	The UICC toolkit parameters DAP is an optional signature. The card issuer's security policy may require the presence of this DAP.	

RQ No.	Clause		Description		
RQ05_1302	8.2.1.3.2.	The input data used to compute UICC toolkit parameters DAP is the concatenation of			
	2.3	the following data:			
			Description		Length
		Length of instanc	e AID		1
		Instance AID			5 to 16
			oolkit parameters		1
		UICC Toolkit para	ameters		n
		The key used to comp the Issuer Security Do	oute this DAP is: Key identifier '02' o omain.	of Key Versi	on number '11' in
RQ05_1303	8.2.1.3.2. 2.3	Depending on the key type for DAP, if padding is required by the algorithm, the data is appended by '80' and filled up with zero or more '00'.			
RQ05_1304	8.2.1.3.2. 2.3		Depending on the key type for DAP, if DES is used, MAC in CBC mode with initial chaining value set to zero shall be used.		
RQ05_1305	8.2.1.3.2. 2.3	Depending on the key	type for DAP, if AES [13] is used, Shall be associated with the key	CMAC mod	e [15] shall be used.
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_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].			
RQ05_2102	8.2.1.3.2. 5.2	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].			
RQ05_2201	8.2.1.3.2.	The Access Domain DAP is an optional signature. The security policy of the provider of the application to which the file system belongs may require the presence of this DAP.			
RQ05_2202	5.3 8.2.1.3.2.		compute the Access Domain DA		
KQ05_2202	5.3	following data:	b compute the Access Domain DA	P is the con	catenation of the
	5.5	lollowing 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.		ed File system, the Length of File S	ystem AID is	s 0 and the File
11000_2200	5.3		sent in the Access Domain DAP.		
			oute the Access Domain DAP is: Ke		
RQ05_2204	8.2.1.3.2.		curity Domain associated to the app CC shared file system, the associa		
NQ05_2204	5.3		in or another Security Domain, dep		
		security policy.		enang en a	
DOOF 0005	8.2.1.3.2.		type for the Access Domain DAP,	if padding is	s required by the
RQ05_2205	5.3		appended by '80' and filled up with		
	8.2.1.3.2.		type for the Access Domain DAP,		
RQ05_2206	5.3		set to zero shall be used.		
RQ05_2207	8.2.1.3.2. 5.3	Depending on the key type for the Access Domain DAP, if AES [13] is used, CMAC mode [15] shall be used. The length of the MAC shall be associated with the key.			
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].			
-			pact Remote Application data forma	at, the conte	xt established by
BO05 2204	0.016	GET STATUS [get firs	st or all occurrence(s)] shall be save	ed across co	ommand sessions as
RQ05_3204	8.2.1.6		ata related to the initial GET STAT		
	1		Application Provider Security Dom	ain with Del	egated Management
RQ05_3403	8.2.1.7		es '42' and '45' shall be supported b		

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	V11.2.0

Annex H (informative): Change History

Date	Version	Information about changes

History

Document history			
V11.0.0	May 2016	Publication	