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**3RD GENERATION
PARTNERSHIP
PROJECT 2
"3GPP2"**

Removable User Identity Module Conformance Testing for Spread Spectrum Systems

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22

23

FOREWORD

1 The present document provides the test cases for the Removable User Identity Module (R-
2 UIM) Conformance Test Specification. The test cases shall comply with [1], [2], [8], [9], and
3 [10].
4 The Removable User Identity Module (R-UIM) for cdma2000^{®1} Spread Spectrum Standards
5 Conformance Test Specification is based on [10]. R-UIMs shall comply with [1] for R-UIM
6 related features.
7 The R-UIM may optionally support additional wireless technologies (such as GSM).
8 Compliance testing for these additional technologies is outside the scope of this document.
9 If the R-UIM supports other additional wireless technology, the R-UIM shall comply with
10 the functional and test specifications specific to that wireless technology.

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¹ cdma2000[®] is the trademark for the technical nomenclature for certain specifications and standards of the Organizational Partners (OPs) of 3GPP2. Geographically (and as of the date of publication), cdma2000[®] is a registered trademark of the Telecommunications Industry Association (TIA-USA) in the United States.

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1 1 GENERAL

2 1.1 Definitions

3 For the purposes of the present document, the following terms and definitions apply in
4 addition to the terms defined in [1].

5 Implementation Conformance Statement (ICS): A statement made by the supplier of an
6 implementation or system claimed to conform to a given specification, stating which
7 capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS,
8 profile specific ICS, information object ICS, etc.

9 **NAM LOCK:** See [13]. In [1], it is defined in EF_{NAMLOCK} bit 2.

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10 **NAM LOCK Indicator:** In [13], it is defined as one of the parameter of OTAPA Response
11 message (NAM LOCK IND). In [1], it is defined as one of the response parameter of OTAPA
12 Request command ([1] Section 4.5.9).

13 **SP LOCK STATE:** See [13]. In [1], it is defined in EF_{SPCS} bit 1.

14

15 1.2 Abbreviations

16 For the purposes of the present document, the following abbreviations apply:

17	3GPP2	3rd Generation Partnership Project 2
18	CRn	Conformance Requirement 'n'
19	DF	Dedicated File
20	ICS	Implementation Conformance Statement
21	IUT	Implementation Under Test
22	ME	Mobile Equipment
23	MF	Master File
24	MS	Mobile Station
25	R-UIM	Removable User Identity Module
26	SIM	Subscriber Identity Module
27	SS	System Simulator
28	TS	Test Specification

1

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1 2 R-UIM TEST ENVIRONMENT

2 The test environment shall comply with the requirements specified in Section 4, "Test
3 Environment" of [10].

1

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1 3 R-UIM TEST PROCEDURE

2 This section details each of the tests in each of the following categories:

- 3 - Physical characteristics
- 4 - Electronic signals and transmission protocols
- 5 - Logical model
- 6 - Security services and facilities
- 7 - Functions
- 8 - Commands
- 9 - Contents of the elementary files

10 3.1 Physical Characteristics

11 The R-UIM shall conform to the requirements defined in Section 9.1 “Physical characteristics”
12 of [10].

13 3.2 Signals and Transmission Protocols

14 The tests in this section ensure that the IUT conforms to the electrical specification for each of
15 the contacts and follow the correct protocol.

16 3.2.1 Supply Voltage Vcc (contact C1)

17 The R-UIM shall conform to the requirements related to 3V and 5V operation specified in
18 Section 6.2.1 of [10].

19 3.2.2 Reset RST (contact C2)

20 The R-UIM shall conform to the requirements related to 3V and 5V operation specified in
21 Section 6.2.2 of [10].

22 3.2.3 Clock CLK (contact C3)

23 The R-UIM shall conform to the requirements related to 3V and 5V operation specified in
24 Section 6.2.3 of [10].

25 3.2.4 I/O (Contact C7)

26 The R-UIM shall conform to the requirements related to 3V and 5V operation specified in
27 Section 6.2.4 of [10].

28 3.2.5 States

29 The R-UIM shall conform to the requirements specified in Section 6.2.5 of [10].

30 3.2.6 Answer To Reset (ATR)

31 The R-UIM shall conform to the requirements specified in Section 6.2.6 of [10].

32 3.2.7 Major Capabilities

33 The R-UIM shall conform to the requirements specified in Section 6.2.7 of [10].

1 3.3 Logical Model

2 The tests in this section ensure that the IUT is tested against the specification of the R-UIM's
3 logical structure, secret codes, and file structures.

4 3.3.1 File Identifier

5 3.3.1.1 File-type Identification

6 3.3.1.1.1 Definition and Applicability

7 A file identifier is used to address or identify each specific file.

8 3.3.1.1.2 Conformance Requirement

9 CR1 For CDMA, the Master File shall be coded as '3F 00'.

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10 CR2 For CDMA, file type '7F' shall be used to identify Dedicated Files.

Deleted:

11 CR3 For CDMA, file type '2F' shall be used to identify Elementary Files under the
12 Master File.

Deleted:

13 CR4 For CDMA, file type '6F' shall be used to identify Elementary Files under a
14 Dedicated File with file type '7F'.

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15 3.3.1.1.3 Test Purpose

16 Verify that the R-UIM conforms to the above requirements.

17 3.3.1.1.4 Method of Test

18 3.3.1.1.4.1 Initial Conditions

19 1) The R-UIM is connected to an ME Simulator.

20 3.3.1.1.4.2 Procedure

21 a) The ME Simulator resets the R-UIM.

22 b) For each file mentioned in [1], Section 3.4., the ME Simulator sends SELECT
23 commands to the R-UIM to select the file ID and, if selected successfully, the ME
24 Simulator sends a GET RESPONSE command to the R-UIM.

25 *After each successful SELECT and GET RESPONSE, byte 7 of the response data shall*
26 *conform to the following table:*

27 *File ID Type of File*

28 *'3F 00' '01'*

29 *'7F XX' '02'*

30 *'2F XX' '04'*

31 *'6F XX' '04'*

1 3.3.1.2 File ID Assignments

2 3.3.1.2.1 Definition and Applicability

3 A file identifier is used to address or identify each specific file. There are a number of rules
4 regarding file ID assignment.

5 3.3.1.2.2 Conformance Requirement

6 CR1 A file ID is assigned at the time of creation of the file concerned.

7 CR2 Two files under the same parent shall never have the same ID.

8 CR3 A child and any parent, either immediate or remote, in the hierarchy shall never
9 have the same ID.

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10 3.3.1.2.3 Test Purpose

11 Verify that all files within the R-UIM structure conform to the above requirements.

12 NOTE 1: CR1 cannot be tested as the SELECT function requires the file ID in order to select
13 files.

14 NOTE 2: CR2 and CR3 cannot be tested due to the operation of the SELECT function which
15 should only ever select a single file for a given file ID.

16 3.3.1.2.4 Method of Test

17 3.3.1.2.4.1 Initial Conditions

18 N/A

19 3.3.1.2.4.2 Procedure

20 N/A

21 3.3.2 Dedicated Files

22 3.3.2.1 Definition and Applicability

23 Dedicated Files provide a functional grouping of Elementary Files. In this way a structured
24 hierarchy of files can be established on the R-UIM.

25 3.3.2.2 Conformance Requirement

26 CR1 The R-UIM shall contain DF_{CDMA}.

27 CR2 The R-UIM shall contain DF_{TELECOM} (optional).

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28 3.3.2.3 Test Purpose

29 Verify that the Dedicated Files within the R-UIM file structure conform to the above
30 requirements.

31 3.3.2.4 Method of Test

32 3.3.2.4.1 Initial Conditions

33 1) The R-UIM is connected to an ME Simulator.

3.3.2.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' - length 'XX' of the response data [CR1].

- c) The ME Simulator resets the R-UIM.
- d) The ME Simulator sends a SELECT command to the R-UIM to select DF_{TELECOM}.

The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' - length 'XX' of the response data, if the R-UIM supports DF_{TELECOM}, otherwise the status condition returned by the R-UIM shall be SW1='94', SW2='04' - file ID not found [CR2].

3.3.3 Elementary Files

The R-UIM shall conform to the requirements specified in [Section 6.3.3](#) of [10].

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3.3.4 Methods for Selecting a File

3.3.4.1 Definition and Applicability

The ME accesses information on the R-UIM navigating around the file structure by selecting DFs and EFs as required. There are a number of rules regarding which file elements may be selected from a given DF or EF.

3.3.4.2 Conformance Requirement

CR1 Selection of a DF or MF shall set the current Directory on the R-UIM.

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CR2 After a selection of a DF or MF there shall be no current EF.

Deleted:

CR3 After a selection of an EF, the current EF shall be set to this EF and the current Directory shall remain the DF or MF which is the parent of this EF.

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CR4 Any application specific command shall only be operable if it is specific to the current Directory.

Deleted:

CR5 It shall be possible to select the following from the last selected file:

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- a) any file which is an immediate child of the current Directory
- b) any DF which is an immediate child of the parent of the current DF
- c) the parent of the current Directory
- d) the current DF
- e) the MF

NOTE: Reselection of the last selected file is allowed.

CR6 It shall be possible to select any of the 'valid selections' in Table 6, [Section 6.5](#) of [2] for each of the 'last selected file' entries.

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1 3.3.4.3 Test Purpose

2 Verify that the R-UIM conforms to the above requirements with regard to file selection.

3 NOTE: CR5 is tested for function RUN GSM ALGORITHM in section 6.5.16 of [10].

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4 3.3.4.4 Method of Test

5 3.3.4.4.1 Initial Conditions

6 1) The R-UIM is connected to an ME Simulator.

7 3.3.4.4.2 Procedure

8 a) The ME Simulator resets the R-UIM.

9 b) The ME Simulator sends SELECT commands to the R-UIM to select DF_{CDMA}.

10 c) The ME Simulator sends a STATUS command to the R-UIM.

11 *Bytes 5 and 6 of the response data shall indicate that DF_{CDMA} is the currently selected*
 12 *directory [CR1].*

13 d) The ME Simulator sends a READ BINARY command using a length of 1 byte to the R-
 14 UIM.

15 *The status condition returned by the R-UIM shall be SW1='94', SW2='00' - no EF selected*
 16 *[CR2].*

17 e) The ME Simulator sends a SELECT command to the R-UIM to select EF_{R-UIM_ID}.

18 f) The ME Simulator sends a GET RESPONSE command to the R-UIM.

19 *Bytes 5 and 6 of the response data shall indicate that EF_{R-UIM_ID} is the currently selected*
 20 *EF [CR3].*

21 g) The ME Simulator sends a STATUS command to the R-UIM.

22 *Bytes 5 and 6 of the response data shall indicate that DF_{CDMA} is the currently selected*
 23 *directory [CR3].*

24 h) Step i) is carried out for each line in Table 6, Section 6.5 of [2].

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25 i) Step j) is carried out for each one of the 'valid selections' in that line of the table.

26 j) Steps k) then l) are carried out in turn.

27 k) The ME Simulator sends SELECT commands to the R-UIM to select the 'last selected
 28 file'.

29 l) The ME Simulator sends a SELECT command to the R-UIM to select the 'valid
 30 selection'.

31 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' [CR5, 6].*

32 The following file IDs are used to represent the IDs in the table:

1

File ID Mapping

Table	Actual
MF	MF
DF1	DF _{TELECOM}
DF2	DF _{CDMA}
EF1	EF _{ICCID}
EF2	EF _{ADN}
EF3	EF _{R-UIM_ID}
EF4	EF _{IMSL_M}

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NOTE: When EF_{ADN} is not supported by the R-UIM, any supported EF in DF_{TELECOM} may be chosen.

3.3.5 Reservation of File IDs

3.3.5.1 Definition and Applicability

In order to accommodate planned and possible future requirements, certain file IDs are considered reserved, and may not be used in the R-UIM file structure.

3.3.5.2 Conformance Requirement

CR1 The following Dedicated File IDs are reserved for operational use by CDMA:

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'7F 10'

'7F 2X'

CR2 The following Elementary File IDs are reserved for operational use by CDMA:

Deleted:

'2F 1X' under MF

'6F 2X', '6F 3X' and '6F 4X' under '7F 10' and '7F 2X'

CR3 The following Dedicated File IDs are reserved for administrative use by CDMA:

Deleted:

'7F 4X'

CR4 The following Elementary File IDs are reserved for administrative use by CDMA:

Deleted:

'2F 01', '2F EX' under MF

'6F XX' under DFs '7F 4X'

'6F 1X' under '7F 10', '7F 20' and '7F 21'

3.3.5.3 Reference

Section 3 of [1].

1 3.3.5.4 Test Purpose

2 Verify that the R-UIM conforms to the above requirements.

3 NOTE: CR3 and CR4 cannot be tested as the administrative functionality is outside the
4 scope of [1].

5 3.3.5.5 Method of Test

6 3.3.5.5.1 Initial Conditions

7 1) The R-UIM is connected to an ME Simulator.

8 3.3.5.5.2 Procedure

9 a) The ME Simulator resets the R-UIM.

10 b) For all possible EFs on the R-UIM, the ME Simulator sends SELECT commands to the
11 R-UIM to select each EF in sequence.

12 *For all successful selections, the ID of the selected file shall be one of those in Section 3 of*
13 *[1] or shall not be one of those listed as reserved for operational use [CR1, 2].*

14 3.4 Security Features

15 The tests in this section ensure that the IUT conforms with the security aspects that are
16 related to the R-UIM, complying with [1, 11, 12].

17 3.4.1 cdma2000 Basic Security Related Functions

18 3.4.1.1 Definition and Applicability

19 The ME Simulator should start and finish the executions of all cdma2000 commands functions
20 in order and within the same CDMA Dedicated File (DF) environment. CHV1 shall be
21 successfully verified before issuing any cdma2000 command.

22 3.4.1.2 Conformance Requirement

23 CR1 ~~_____~~, CHV1 shall be successfully verified before issuing any cdma2000 command.

24 CR2 ~~_____~~, DF_{CDMA} shall be selected prior to executing any cdma2000 command.

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25 3.4.1.3 Test Purpose

26 Verify that the R-UIM conforms to the above requirements.

27 3.4.1.4 Method of Test

28 3.4.1.4.1 Initial Conditions

29 1) The R-UIM is connected to an ME Simulator.

30 3.4.1.4.2 Procedure

31 a) The ME Simulator resets the R-UIM.

32 b) The ME Simulator sends a SELECT command to select DF_{CDMA}

33 c) The ME Simulator executes any of the cdma2000 commands without a successful
34 verification of CHV1.

1 The status condition returned by the R-UIM shall be SW1='98', SW2='04' – access
2 condition not fulfilled [CR1].

- 3 d) The ME Simulator resets the R-UIM.
- 4 e) The ME Simulator successfully verifies CHV1.
- 5 f) The ME Simulator executes any of the cdma2000 commands without prior successful
6 selection of DF_{CDMA}.

7 The status condition returned by the R-UIM shall be SW1='94', SW2='08' – file is
8 inconsistent with the command [CR2].

9 3.4.2 File Access Conditions

10 The R-UIM shall conform to the requirements specified in Section 6.4.2 of [10].

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11 3.5 Description of the Functions

12 The tests in this section ensure that the IUT conforms to the functional specification for all the
13 commands and their respective responses. The ME shall send an OTAPA Request to the R-
14 UIM to initiate the programming procedure prior to all OTA (OTAPA/OTASP) related functions.

15 This shall be accomplished by updating the first byte of the EF_{OTAPASPC} file to the value '00'
16 using the Update Binary command.

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17
18 3.5.1 SELECT Function

19 3.5.1.1 Definition and Applicability

20 It shall be mandatory for all cards complying with [1] to support all functions described
21 therein.

22 3.5.1.2 Conformance Requirement

23 CR1 The SELECT function shall select a file according to the methods described in
24 [1] and [2], as appropriate.

Deleted:

25 CR2 The function shall accept as an input, a file ID.

Deleted:

26 CR3 If the selected file is the MF or a DF, then the function shall output the file ID,
27 total memory space available, CHV enabled/disabled indicator and CHV status.

Deleted:

28 CR4 If the selected file is an EF, then the function shall output the file ID, access
29 conditions, invalidation indicator, structure of EF and the length of the records in the
30 case of linear fixed or cyclic structure.

Deleted:

31 CR5 The record pointer in a cyclic file shall address the last record that has been
32 updated or increased.

Deleted:

33 3.5.1.3 Test Purpose

34 Verify that the SELECT function conforms to the above requirements for the different file types
35 available.

36 NOTE: CR1 is tested in section 3.3.5.

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1 3.5.1.4 Method of Test

2 3.5.1.4.1 Initial Conditions

- 3 1) The R-UIM is connected to an ME Simulator.
- 4 2) The records in EF_{COUNT} contain the following data:
 - 5 Record 1 = '11 11' (last updated record)
 - 6 Record 2 = '22 22'
 - 7 Record 3 = '33 33'
- 8 3) The record length of EF_{ADN} is known.

9 3.5.1.4.2 Procedure

- 10 a) The ME Simulator resets the R-UIM.
- 11 b) The ME Simulator sends a SELECT command to select DF_{CDMA}.

12 *The status returned by the R-UIM shall be SW1='9F', SW2='XX' - length 'XX' of the*

13 *response data [CR2].*
- 14 c) The ME Simulator sends a GET RESPONSE command to the R-UIM.

15 *The following shall be true of the response data [CR3]:*

 - 16 ▪ *Bytes 5 and 6 shall indicate that DF_{CDMA} is the currently selected file*
 - 17 ▪ *Byte 7 shall be '02' indicating a DF*
 - 18 ▪ *Byte 13 shall be less than or equal to SW2 from step b) minus 13*
 - 19 ▪ *Bit 8 of byte 14 shall be '0' indicating that CHV1 is enabled*
 - 20 ▪ *Byte 15 shall indicate the correct number of DFs which are direct children of DF_{CDMA}*
 - 21 ▪ *Byte 16 shall indicate the correct number of EFs which are direct children of DF_{CDMA}*
 - 22 ▪ *Bits 1 through 4 of byte 19 shall indicate three VERIFY CHV1 attempts remaining*
 - 23 ▪ *Bits 1 through 4 of byte 21 shall indicate three VERIFY CHV2 attempts remaining.*
 - 24 ▪ *Bits 1 through 4 of byte 20 shall indicate ten UNBLOCK CHV1 attempts remaining*
 - 25 ▪ *Bits 1 through 4 of byte 22 shall indicate ten UNBLOCK CHV2 attempts remaining*
- 26 d) The ME Simulator sends a SELECT command to the R-UIM to select the MF.
- 27 e) The ME Simulator sends a GET RESPONSE command to the R-UIM.

28 *The following shall be true of the response data [CR3]:*

 - 29 ▪ *Byte 7 shall be '01' indicating MF*
 - 30 ▪ *Byte 15 shall indicate the correct number of DFs that are direct children of MF*
 - 31 ▪ *Byte 16 shall indicate the correct number of EFs that are direct children of MF*
- 32 f) The ME Simulator sends a VERIFY CHV command with incorrect CHV1 to the R-UIM.

- 1 g) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 2 h) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 3 *The following shall be true of the response data [CR3]:*
- 4 ▪ *Bits 1 through 4 of byte 19 shall indicate two VERIFY CHV1 attempts remaining*
- 5 i) The ME Simulator sends a DISABLE CHV command to the R-UIM.
- 6 j) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 7 k) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 8 *The following shall be true of the response data [CR3]:*
- 9 ▪ *Bit 8 of byte 14 shall be '1' indicating that CHV1 is disabled*
- 10 ▪ *Bits 1 through 4 of byte 19 shall indicate three VERIFY CHV1 attempts remaining.*
- 11 l) The ME Simulator sends a SELECT command to the R-UIM to select the MF.
- 12 m) The ME Simulator sends a SELECT command to the R-UIM to select DF_{TELECOM}.
- 13 n) The ME Simulator sends an ENABLE CHV command to the R-UIM.
- 14 o) The ME Simulator sends a SELECT command to the R-UIM to select EF_{ADN}.
- 15 p) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 16 *The following shall be true of the response data [CR4]:*
- 17 ▪ *Bytes 5 and 6 shall indicate that EF_{ADN} is the currently selected file*
- 18 ▪ *Bytes 9 through 11 shall state the access conditions in [Section 10.3.1 of \[2\]](#)*
- 19 ▪ *Bit 1 of byte 12 shall be '1' indicating that the file is not invalidated*
- 20 ▪ *Byte 14 shall be '01' indicating linear fixed structure*
- 21 ▪ *Byte 15 shall indicate the length of the records*
- 22 q) The ME Simulator sends a VERIFY CHV command to the R-UIM with correct CHV2.
- 23 r) The ME Simulator sends an INVALIDATE command to the R-UIM.
- 24 s) The ME Simulator sends a SELECT command to the R-UIM to re-select EF_{ADN}.
- 25 t) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 26 *The response data shall indicate the following [CR4]:*
- 27 ▪ *Bit 1 of byte 12 shall be '0' indicating that the file is invalidated.*
- 28 u) The ME Simulator sends a REHABILITATE command to the R-UIM.
- 29 v) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 30 w) The ME Simulator sends a SELECT command to the R-UIM to select EF_{COUNT}.
- 31 x) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 32 *The following shall be true of the response data [CR4]:*

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- *Byte 14 shall be '03' indicating cyclic structure.*

y) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-UIM.

The response data shall be '11 11' [CR5].

3.5.2 STATUS Function

3.5.2.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all functions described therein.

3.5.2.2 Conformance Requirement

CR1 _____ The STATUS function shall output the file ID, total memory space available, CHV enabled/disabled indicator and CHV status of the currently selected MF or DF.

Deleted:

3.5.2.3 Test Purpose

Verify that the R-UIM conforms to the above requirements.

3.5.2.4 Method of Test

3.5.2.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.

3.5.2.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends a SELECT command to select DF_{CDMA}.
- c) The ME Simulator sends a STATUS command to the R-UIM.

The following shall be true of the response data [CR1]:

- *Bytes 5 and 6 shall indicate that DF_{CDMA} is the currently selected file*
- *Byte 7 shall be '02' indicating a DF*
- *Byte 13 shall be less than or equal to SW2 from step b) minus 13*
- *Bit 8 of byte 14 shall be '0' indicating that CHV1 is enabled*
- *Byte 15 shall indicate the correct number of DFs which are a direct child of DF_{CDMA}*
- *Byte 16 shall indicate the correct number of EFs which are a direct child of DF_{CDMA}*
- *Bits 1 through 4 of byte 19 shall indicate three VERIFY CHV1 attempts remaining if CHV1 is initialized*
- *Bits 1 through 4 of byte 21 shall indicate three VERIFY CHV2 attempts remaining if CHV2 is initialized*
- *Bits 1 through 4 of byte 20 shall indicate ten UNBLOCK CHV1 attempts remaining if CHV1 is initialized*

- 1 ▪ *Bits 1 through 4 of byte 22 shall indicate ten UNBLOCK CHV2 attempts remaining if*
- 2 *CHV2 is initialized*
- 3 d) The ME Simulator sends a SELECT command to the R-UIM to select the MF.
- 4 e) The ME Simulator sends a STATUS command to the R-UIM.
- 5 *The following shall be true of the response data [CR1]:*
- 6 ▪ *Byte 7 shall be '01' indicating MF*
- 7 ▪ *Byte 15 shall indicate the correct number of DFs which are a direct child of MF*
- 8 ▪ *Byte 16 shall indicate the correct number of EFs which are a direct child of MF*
- 9 f) The ME Simulator sends a VERIFY CHV command with incorrect CHV1 to the R-UIM.
- 10 g) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 11 h) The ME Simulator sends a STATUS command to the R-UIM.
- 12 *The following shall be true of the response data [CR1]:*
- 13 ▪ *Bits 1 through 4 of byte 19 shall indicate two VERIFY CHV1 attempts remaining*
- 14 i) The ME Simulator sends a DISABLE CHV command to the R-UIM.
- 15 j) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 16 k) The ME Simulator sends a STATUS command to the R-UIM.
- 17 *The following shall be true of the response data [CR1]:*
- 18 ▪ *Bit 8 of byte 14 shall be '1' indicating that CHV1 is disabled*
- 19 ▪ *Bits 1 through 4 of byte '19' shall indicate three VERIFY CHV1 attempts remaining.*

3.5.3 READ BINARY Function

3.5.3.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all functions described therein.

3.5.3.2 Conformance Requirement

CR1 The READ BINARY function shall read a string of bytes from the current transparent EF.

Deleted:

CR2 The function shall accept as an input, the relative address (offset) and the length (in bytes) of the string.

Deleted:

CR3 The function shall output the string of bytes.

Deleted:

CR4 The function shall only be performed if the READ access condition for the current EF is satisfied.

Deleted:

3.5.3.3 Test Purpose

Verify that the READ BINARY function conforms to the above requirements.

1 3.5.3.4 Method of Test

2 3.5.3.4.1 Initial Conditions

- 3 1) The R-UIM is connected to an ME Simulator.
 4 2) EF_{TMSI} contains the data string: '01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 01'.

5 3.5.3.4.2 Procedure

- 6 a) The ME Simulator resets the R-UIM.
 7 b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
 8 DF_{CDMA}.
 9 c) The ME Simulator sends a READ BINARY command using a length of 16 bytes to the R-
 10 UIM.

11 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access*
 12 *condition not fulfilled [CR4].*

- 13 d) The ME Simulator sends a VERIFY CHV command to the R-UIM.
 14 e) The ME Simulator sends a READ BINARY command using a length of 16 bytes to the R-
 15 UIM.

16 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
 17 *of command [CR1-4].*

18 *The data string returned shall be '01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 01'*
 19 *[CR1-4].*

- 20 f) The ME Simulator sends a READ BINARY command using a length of 1 byte to the R-
 21 UIM.

22 *The data string returned shall be '01'.*

- 23 g) The ME Simulator sends a READ BINARY command using an offset of '00 01' and
 24 length 15 byte to the R-UIM.

25 *The data string returned shall be '02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 01' [CR1-*
 26 *4].*

- 27 h) The ME Simulator sends a READ BINARY command using a length of 17 bytes to the R-
 28 UIM.

29 *The status condition returned by the R-UIM shall be SW1='67', SW2='10' or '00' - incorrect*
 30 *parameter P3.*

Deleted: 09'

- 31 i) The ME Simulator sends a READ BINARY command using an offset of '00 10' and
 32 length 1 byte to the R-UIM.

33 *The status condition returned by the R-UIM shall be SW1='6B', SW2='XX' - incorrect*
 34 *parameter P1 or P2.*

- 35 j) The ME Simulator sends a READ BINARY command using an offset of '00 0B' and
 36 length 7 bytes to the R-UIM.

1 An error status condition shall be returned by the R-UIM.

2 3.5.4 UPDATE BINARY Function

3 3.5.4.1 Definition and Applicability

4 It shall be mandatory for all cards complying with [1] to support all functions described
5 therein.

6 3.5.4.2 Conformance Requirement

7 CR1, The UPDATE BINARY function shall update the current transparent EF with a
8 string of bytes.

Deleted:)

9 CR2, The function shall accept as an input, the relative address (offset), the length (in
10 bytes) of the string, and the string of bytes.

Deleted:)

11 CR3, The function shall only be performed if the UPDATE access condition for the
12 current EF is satisfied.

Deleted:)

13 3.5.4.3 Test Purpose

14 Verify that the UPDATE BINARY function conforms to the above requirements.

15 3.5.4.4 Method of Test

16 3.5.4.4.1 Initial Conditions

- 17 1) The R-UIM is connected to an ME Simulator.
18 2) EF_{TMSI} = 'FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF'.

19 3.5.4.4.2 Procedure

- 20 a) The ME Simulator resets the R-UIM.
21 b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
22 DF_{CDMA}.
23 c) The ME Simulator sends an UPDATE BINARY command using a length of 16 bytes, and
24 data string '01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 01' to the R-UIM.

25 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access
26 condition not fulfilled [CR3].*

- 27 d) The ME Simulator sends a VERIFY CHV command to the R-UIM.
28 e) The ME Simulator sends a READ BINARY command using a length of 16 bytes to the R-
29 UIM.

30 *The data string returned shall be 'FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF'.*

- 31 f) The ME Simulator sends an UPDATE BINARY command using a length of 16 bytes, and
32 data string '01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 01' to the R-UIM.

33 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' [CR3].*

- 34 g) The ME Simulator sends a READ BINARY command using a length of 16 bytes to the R-
35 UIM.

1 The data string returned shall be '01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 01'
2 [CR1].

3 h) The ME Simulator sends an UPDATE BINARY command using a length of 1 byte, and
4 data string 'E4' to the R-UIM.

5 i) The ME Simulator sends a READ BINARY command using a length of 16 bytes to the R-
6 UIM.

7 The data string returned shall be E4 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 01'
8 [CR1].

9 j) The ME Simulator sends an UPDATE BINARY command using an offset of '00 01', a
10 length 1 byte, and data string 'E5' to the R-UIM.

11 k) The ME Simulator sends a READ BINARY command using a length of 16 bytes to the R-
12 UIM.

13 The data string returned shall be 'E4 E5 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 01'
14 [CR1].

15 3.5.5 READ RECORD Function

16 3.5.5.1 Definition and Applicability

17 It shall be mandatory for all cards complying with [1] to support all functions described
18 therein.

19 3.5.5.2 Conformance Requirement

20 CR1 The READ RECORD function shall read one complete record in the current
21 linear fixed or cyclic EF.

Deleted:

22 CR2 The function shall accept as an input, the mode, record number if absolute
23 mode, and the length of the record.

Deleted:

24 CR3 The function shall output the record specified by the mode.

Deleted:

25 CR4 The function shall only be performed if the READ access condition for the
26 current EF is satisfied.

Deleted:

27 CR5 If the mode is CURRENT, the current record is read.

Deleted:

28 CR6 If the mode is CURRENT, the record pointer is not affected.

Deleted:

29 CR7 If the mode is ABSOLUTE, the record given by the record number is read.

Deleted:

30 CR8 If the mode is ABSOLUTE, the record pointer is not affected.

Deleted:

31 CR9 If the mode is NEXT, the record pointer is incremented before the function is
32 performed and the pointed record is read.

Deleted:

33 CR10 If the mode is NEXT, and the record pointer has not been previously been set
34 within the selected EF, the first record shall be read and the record pointer set to this
35 record.

Deleted:

- 1 CR11 ~~_____~~ If the mode is NEXT, and the record pointer addresses the last record in a linear
2 fixed EF, the record pointer shall not change and no data shall be read. Deleted:
- 3 CR12 ~~_____~~ If the mode is NEXT, and the record pointer addresses the last record in a cyclic
4 EF, the first record shall be read and the record pointer set to this record. Deleted:
- 5 CR13 ~~_____~~ If the mode is PREVIOUS, the record pointer is decremented before the function
6 is performed and the pointed record is read. Deleted:
- 7 CR14 ~~_____~~ If the mode is PREVIOUS, and the record pointer has not been previously been
8 set within the selected EF, the last record shall be read and the record pointer set to
9 this record. Deleted:
- 10 CR15 ~~_____~~ If the mode is PREVIOUS, and the record pointer addresses the first record in a
11 linear fixed EF, the record pointer shall not change and no data shall be read. Deleted:
- 12 CR16 ~~_____~~ If the mode is PREVIOUS, and the record pointer addresses the first record in a
13 cyclic EF, the last record shall be read and the record pointer set to this record. Deleted:
- 14 CR17 ~~_____~~ The record pointer shall not be changed if the function is unsuccessful. Deleted:
- 15 CR18 ~~_____~~ For modes NEXT and PREVIOUS, P1 has no significance and shall not be
16 interpreted by the R-UIM. Deleted:

17 3.5.5.3 Test Purpose

18 Verify that the READ RECORD function conforms to the above requirements using two test
19 procedures.

20 3.5.5.4 Method of Test

21 3.5.5.4.1 Initial Conditions

- 22 1) The R-UIM is connected to an ME Simulator.
- 23 2) The records in EF_{ADN} contain the following data for the first 16 bytes:
24 First record='10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F'
25 Second record='20 21 22 23 24 25 26 27 28 29 2A 2B 2C 2D 2E 2F'
26 Second last record='E0 E1 E2 E3 E4 E5 E6 E7 E8 E9 EA EB EC ED EE EF'
27 Last record='F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB FC FD FE FF'
28 The data for the remainder of these two records and for all other records (if any) is 'FF'.
- 29 3) The records in EF_{COUNT} contain the following data:
30 Record 1 = '01 01' (last updated record)
31 Record 2 = '02 02'
32 Record 3 = '03 03'
33 ...and so on for all records...
34 Record X = 'XX XX' (first updated record) Deleted: ''

1 3.5.5.4.2 Procedure

2 3.5.5.4.2.1 Procedure 1

- 3 a) The ME Simulator resets the R-UIM.
- 4 b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under
5 DF_{TELECOM}.
- 6 c) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
7 record 1 to the R-UIM.
- 8 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access*
9 *condition not fulfilled [CR4].*
- 10 d) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 11 e) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
12 record 1 to the R-UIM.
- 13 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
14 *of command [CR4].*
- 15 *The record data returned shall be that of the first record in EF_{ADN} [CR1-4, 7].*
- 16 f) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under
17 DF_{TELECOM}.
- 18 g) The ME Simulator sends a READ RECORD command using NEXT mode to the R-UIM.
- 19 h) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
20 record 2 to the R-UIM.
- 21 *The record data returned shall be that of the second record in EF_{ADN} [CR7].*
- 22 i) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
23 UIM.
- 24 *The record data returned shall be that of the first record in EF_{ADN} [CR5, 8].*
- 25 j) The ME Simulator sends a READ RECORD command using NEXT mode to the R-UIM.
26 *The record data returned shall be that of the second record in EF_{ADN} [CR6].*
- 27 k) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with the
28 last record to the R-UIM.
- 29 *The record data returned shall be that of the last record in EF_{ADN} [CR7].*
- 30 l) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with the
31 last record + 1 to the R-UIM.
- 32 *The status condition returned by the R-UIM shall be SW1='94', SW2='02' - out of range.*
- 33 m) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
34 UIM.
- 35 *The record data returned shall be that of the second record in EF_{ADN} [CR17].*

- 1 n) The ME Simulator sends SELECT commands to the R-UIM to select EF_{COUNT} under
2 DF_{CDMA}.
- 3 o) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
4 UIM.
5 *The record data returned shall be that of the first record in EF_{COUNT} [CR1, 5].*
- 6 p) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
7 record 3 to the R-UIM.
8 *The record data returned shall be that of the record 3 in EF_{COUNT} [CR1, 7].*
- 9 q) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with the
10 last record + 1 to the R-UIM.
11 *The status condition returned by the R-UIM shall be SW1='94', SW2='02' - out of range.*
- 12 r) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
13 UIM.
14 *The record data returned shall be that of the first record in EF_{COUNT} [CR17].*

15 3.5.5.4.2.2 Procedure 2

- 16 a) The ME Simulator resets the R-UIM.
- 17 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 18 c) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under
19 DF_{TELECOM}.
- 20 d) The ME Simulator sends a READ RECORD command using NEXT mode to the R-UIM.
21 *The record data returned shall be that of the first record in EF_{ADN} [CR10].*
- 22 e) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
23 UIM.
24 *The record data returned shall be that of the first record in EF_{ADN} [CR10].*
- 25 f) The ME Simulator sends a READ RECORD command using NEXT mode to the R-UIM
26 with P1='FF'.
27 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending
28 of command [CR18].*
29 *The record data returned shall be that of the second record in EF_{ADN} [CR9].*
- 30 g) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
31 UIM.
32 *The record data returned shall be that of the second record in EF_{ADN} [CR9].*
- 33 h) The ME Simulator sends a SELECT command to the R-UIM to select EF_{ADN}.
- 34 i) The ME Simulator sends a READ RECORD command using PREVIOUS mode to the R-
35 UIM.

- 1 *The record data returned shall be that of the last record in EF_{ADN} [CR14].*
- 2 j) The ME Simulator sends a READ RECORD command using NEXT mode to the R-UIM.
- 3 *The status condition returned by the R-UIM shall be SW1='94', SW2='02' - out of range*
4 *[CR11].*
- 5 k) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
6 UIM.
- 7 *The record data returned shall be that of the last record in EF_{ADN} [CR11].*
- 8 l) The ME Simulator sends a READ RECORD command using PREVIOUS mode with
9 P1='FF' to the R-UIM.
- 10 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
11 *of command [CR18].*
- 12 *The record data returned shall be that of the second to last record in EF_{ADN} [CR13].*
- 13 m) The ME Simulator sends a SELECT command to the R-UIM to select EF_{ADN}.
- 14 n) The ME Simulator sends a READ RECORD command using NEXT mode to the R-UIM.
- 15 o) The ME Simulator sends a READ RECORD command using PREVIOUS mode to the R-
16 UIM.
- 17 *The status condition returned by the R-UIM shall be SW1='94', SW2='02' - out of range*
18 *[CR15].*
- 19 p) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
20 UIM.
- 21 *The record data returned shall be that of the first record in EF_{ADN} [CR15].*
- 22 q) The ME Simulator sends a SELECT command to the R-UIM to select EF_{COUNT}. Deleted: s
- 23 r) The ME Simulator sends a READ RECORD command using PREVIOUS mode to the R-
24 UIM.
- 25 *The record data returned shall be that of the last record (record X) in EF_{COUNT} [CR16].*
- 26 s) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
27 UIM.
- 28 *The record data returned shall be that of the last record (record X) in EF_{COUNT} [CR16].*
- 29 t) The ME Simulator sends a READ RECORD command using NEXT mode to the R-UIM.
- 30 *The record data returned shall be that of the first record (record 1) in EF_{COUNT} [CR12].*
- 31 u) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
32 UIM.
- 33 *The record data returned shall be that of the first record (record 1) in EF_{COUNT} [CR12].*

3.5.6 UPDATE RECORD Function

3.5.6.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all functions described therein.

3.5.6.2 Conformance Requirement

CR1 The UPDATE RECORD function shall update one complete record in the current linear fixed or cyclic EF.

Deleted:

CR2 The function shall accept as an input, the mode, record number if absolute mode, the length of the record, and the data used for updating the record.

Deleted:

CR3 The function shall only be performed if the UPDATE access condition for the current EF is satisfied.

Deleted:

CR4 For cyclic files, only PREVIOUS mode is allowed.

Deleted:

CR5 If the mode is CURRENT, the current record is updated

Deleted:

CR6 If the mode is CURRENT, the record pointer is not affected.

Deleted:

CR7 If the mode is ABSOLUTE, the record given by the record number is updated.

Deleted:

CR8 If the mode is ABSOLUTE, the record pointer is not affected.

Deleted:

CR9 If the mode is NEXT, the record pointer is incremented before the function is performed and the pointed record is updated.

Deleted:

CR10 If the mode is NEXT, and the record pointer has not previously been set within the selected EF, the first record shall be updated and the record pointer set to this record.

Deleted:

CR11 If the mode is NEXT, and the record pointer addresses the last record, the record pointer shall not change and no record shall be updated.

Deleted:

CR12 If the mode is PREVIOUS, the record pointer is decremented before the function is performed and the pointed record is updated.

Deleted:

CR13 If the mode is PREVIOUS, and the record pointer has not previously been set within the selected EF, the last record shall be updated and the record pointer set to this record.

Deleted:

CR14 If the mode is PREVIOUS, and the record pointer addresses the first record, the record pointer shall not change and no record shall be updated.

Deleted:

CR15 If the mode is PREVIOUS and the EF is a cyclic file, the oldest record is updated, the record pointer set to this record, and this record shall become the first record.

Deleted:

CR16 The record pointer shall not be changed if the function is unsuccessful.

Deleted:

CR17 For modes NEXT and PREVIOUS, P1 has no significance and shall not be interpreted by the R-UIM.

Deleted:

1 3.5.6.3 Test Purpose

2 Verify that the UPDATE RECORD function conforms to the above requirements for the different
3 modes available.

4 3.5.6.4 Method of Test

5 3.5.6.4.1 Initial Conditions

- 6 1) The R-UIM is connected to an ME Simulator.
- 7 2) The records in EF_{ADN} contain the following data for the first 16 bytes:
- 8 First record='10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F'
- 9 Second record='20 21 22 23 24 25 26 27 28 29 2A 2B 2C 2D 2E 2F'
- 10 Second last record='E0 E1 E2 E3 E4 E5 E6 E7 E8 E9 EA EB EC ED EE EF'
- 11 Last record='F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB FC FD FE FF'
- 12 The data for the remainder of these two records and for all other records (if any) is 'FF'.
- 13 3) The records in EF_{COUNT} contain the following data:
- 14 Record 1 = '01 01' (last updated record)
- 15 Record 2 = '02 02'
- 16 Record 3 = '03 03'
- 17 ...and so on for all records...
- 18 Record X = 'XX XX' (first updated record)

Deleted: :

19 3.5.6.4.2 Procedure

20 3.5.6.4.2.1 Procedure 1

- 21 a) The ME Simulator resets the R-UIM.
- 22 b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under
23 DF_{TELECOM}.
- 24 c) The ME Simulator sends an UPDATE RECORD command using ABSOLUTE mode with
25 record 1 to the R-UIM. The data used is 'C1' for all bytes.
- 26 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access*
27 *condition not fulfilled [CR3].*
- 28 d) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 29 e) The ME Simulator sends an UPDATE RECORD command using ABSOLUTE mode with
30 record 1 to the R-UIM. The data used is 'C2' for all bytes.
- 31 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
32 *of command [CR3].*
- 33 f) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
34 record 1 to the R-UIM.

- 1 *The record data returned shall be 'C2' for all bytes [CR1-3, 7].*
- 2 g) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under
3 DF_{TELECOM}.
- 4 h) The ME Simulator sends an UPDATE RECORD command using NEXT mode to the R-
5 UIM. The data used is 'D0' for all bytes.
- 6 i) The ME Simulator sends an UPDATE RECORD command using ABSOLUTE mode with
7 record 2 to the R-UIM. The data used is 'C3' for all bytes.
- 8 j) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
9 record 2 to the R-UIM.
- 10 *The record data returned shall be 'C3' for all bytes [CR7].*
- 11 k) The ME Simulator sends an UPDATE RECORD command using CURRENT mode to the
12 R-UIM. The data used is 'C4' for all bytes.
- 13 l) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
14 record 1 to the R-UIM.
- 15 *The record data returned shall be 'C4' for all bytes [CR5, 8].*
- 16 m) The ME Simulator sends an UPDATE RECORD command using NEXT mode to the R-
17 UIM. The data used is 'C5' for all bytes.
- 18 n) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
19 record 2 to the R-UIM.
- 20 *The record data returned shall be 'C5' for all bytes [CR8].*
- 21 o) The ME Simulator sends an UPDATE RECORD command using ABSOLUTE mode with
22 the last record to the R-UIM. The data used is 'C7' for all bytes.
- 23 p) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with the
24 last record to the R-UIM.
- 25 *The record data returned shall be 'C7' for all bytes [CR7].*
- 26 q) The ME Simulator sends an UPDATE RECORD command using ABSOLUTE mode with
27 the last record + 1 to the R-UIM. The data used is 'C8' for all bytes.
- 28 *The status condition returned by the R-UIM shall be SW1='94', SW2='02' - out of range.*
- 29 r) The ME Simulator sends an UPDATE RECORD command using CURRENT mode to the
30 R-UIM. The data used is 'C9' for all bytes.
- 31 s) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
32 record 2 to the R-UIM.
- 33 *The record data returned shall be 'C9' for all bytes [CR16].*
- 34 t) The ME Simulator sends SELECT commands to the R-UIM to select EF_{COUNT} under
35 DF_{CDMA}.

- 1 u) The ME Simulator sends an UPDATE RECORD command using CURRENT mode to the
2 R-UIM. The data used is 'CA' for all bytes.

3 *The status condition returned by the R-UIM shall be SW1='6B', SW2='XX' - file is*
4 *inconsistent with the command [CR4].*

- 5 v) The ME Simulator sends an UPDATE RECORD command using ABSOLUTE mode with
6 record 3 to the R-UIM. The data used is 'CB' for all bytes.

7 *The status condition returned by the R-UIM shall be SW1='6B', SW2='XX' - file is*
8 *inconsistent with the command [CR4].*

9 3.5.6.4.2.2 Procedure 2

- 10 a) The ME Simulator resets the R-UIM.

- 11 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.

- 12 c) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under
13 DF_{TELECOM}.

- 14 d) The ME Simulator sends an UPDATE RECORD command using NEXT mode to the R-
15 UIM. The data used is 'C2' for all bytes.

- 16 e) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
17 record 1 to the R-UIM.

18 *The record data returned shall be 'C2' for all bytes [CR10].*

- 19 f) The ME Simulator sends an UPDATE RECORD command using CURRENT mode to the
20 R-UIM. The data used is 'C3' for all bytes.

- 21 g) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
22 record 1 to the R-UIM.

23 *The record data returned shall be 'C3' for all bytes [CR10].*

- 24 h) The ME Simulator sends an UPDATE RECORD command using NEXT mode to the R-
25 UIM with P1='FF'. The data used is 'C4' for all bytes.

26 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
27 *of command [CR17].*

- 28 i) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
29 record 2 to the R-UIM.

30 *The record data returned shall be 'C4' for all bytes [CR9, 17].*

- 31 j) The ME Simulator sends an UPDATE RECORD command using CURRENT mode to the
32 R-UIM. The data used is 'C5' for all bytes.

- 33 k) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
34 record 2 to the R-UIM.

35 *The record data returned shall be 'C5' for all bytes [CR9].*

- 36 l) The ME Simulator sends a SELECT command to the R-UIM to select EF_{ADN}.

- 1 m) The ME Simulator sends an UPDATE RECORD command using PREVIOUS mode to the
2 R-UIM. The data used is 'C6' for all bytes.
- 3 n) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with the
4 last record to the R-UIM.
5 *The record data returned shall be 'C6' for all bytes [CR13].*
- 6 o) The ME Simulator sends an UPDATE RECORD command using NEXT mode to the R-
7 UIM. The data used is 'C7' for all bytes.
8 *The status condition returned by the R-UIM shall be SW1='94', SW2='02' - out of range*
9 *[CR11].*
- 10 p) The ME Simulator sends an UPDATE RECORD command using CURRENT mode to the
11 R-UIM. The data used is 'C8' for all bytes.
- 12 q) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with the
13 last record to the R-UIM.
14 *The record data returned shall be 'C8' for all bytes [CR16].*
- 15 r) The ME Simulator sends an UPDATE RECORD command using PREVIOUS mode with
16 P1='FF' to the R-UIM. The data used is 'C9' for all bytes.
17 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
18 *of command [CR17].*
- 19 s) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with the
20 second last record to the R-UIM.
21 *The record data returned shall be 'C9' for all bytes [CR12, 17].*
- 22 t) The ME Simulator sends a SELECT command to the R-UIM to select EF_{ADN}.
- 23 u) The ME Simulator sends an UPDATE RECORD command using NEXT mode to the R-
24 UIM. The data used is 'CA' for all bytes.
- 25 v) The ME Simulator sends an UPDATE RECORD command using PREVIOUS mode to the
26 R-UIM. The data used is 'CB' for all bytes.
27 *The status condition returned by the R-UIM shall be SW1='94', SW2='02' - out of range*
28 *[CR13].*
- 29 w) The ME Simulator sends an UPDATE RECORD command using CURRENT mode to the
30 R-UIM. The data used is 'CC' for all bytes.
- 31 x) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with
32 record 1 to the R-UIM.
33 *The record data returned shall be 'CC' for all bytes [CR16].*
- 34 y) The ME Simulator sends SELECT commands to the R-UIM to select EF_{COUNT} under
35 DF_{CDMA}.

1 z) The ME Simulator sends an UPDATE RECORD command using PREVIOUS mode to the
2 R-UIM. The data used is 'CD' for all bytes.

3 aa) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with the
4 first record (record 1) to the R-UIM.

5 *The record data returned shall be 'CD' for all bytes [CR15].*

6 bb) The ME Simulator sends an UPDATE RECORD command using NEXT mode to the R-
7 UIM. The data used is 'C2' for all bytes.

8 *The status condition returned by the R-UIM shall be SW1='6B', SW2='XX' - file is
9 inconsistent with the command [CR4].*

10 3.5.7 SEEK Function

11 3.5.7.1 Definition and Applicability

12 It shall be mandatory for all cards complying with [1] to support all functions described
13 therein.

14 3.5.7.2 Conformance Requirement

15 CR1 ~~_____~~ The SEEK function shall search through the current linear fixed EF to find a
16 record starting with the given pattern.

Deleted:

17 CR2 ~~_____~~ The function shall accept as an input, the type and mode, pattern and length of
18 pattern.

Deleted:

19 CR3 ~~_____~~ The SEEK function shall support both type 1 and type 2.

Deleted:

20 CR4 ~~_____~~ For a type 2 SEEK, the function shall output the record number.

Deleted:

21 CR5 ~~_____~~ The SEEK function shall support the following modes:

Deleted:

- 22 a) from the beginning forwards
- 23 b) from the end backwards
- 24 c) from the next location forwards
- 25 d) from the previous location backwards

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26 CR6 ~~_____~~ The function shall only be performed if the READ access condition for the
27 current EF is satisfied.

Deleted:

28 CR7 ~~_____~~ If the parameter P3 indicates a pattern-length greater than the record length,
29 the R-UIM shall send the status information 'incorrect parameter P3'.

30 CR8 ~~_____~~ The R-UIM shall be able to accept any pattern length from 1 to 16 bytes
31 inclusive.

Deleted: CR8

32 CR9 ~~_____~~ For a SEEK function of next location forwards, if the record pointer has not been
33 previously set within the selected linear fixed EF, the search begins with the first
34 record.

Deleted: CR9

~~CR10~~ For a SEEK function of previous location backwards, if the record pointer has not been previously set within the selected linear fixed EF, the search begins with the last record.

Deleted: CR10

~~CR11~~ After a successful SEEK function, the record pointer shall be set to the record in which the pattern was found.

Deleted: CR11

~~CR12~~ The record pointer shall not be changed by an unsuccessful SEEK function.

Deleted: CR12

3.5.7.3 Test Purpose

Verify that the SEEK function conforms to the above requirements for the different modes available.

3.5.7.4 Method of Test

3.5.7.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.
- 2) The records in EF_{ADN} contain the following data for the first 16 bytes:
record 1 = 'A0 A1 A2 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D'
record 2 = 'A0 A1 A2 21 22 23 24 25 26 27 28 29 2A 2B 2C 2D'

The data for the remainder of these two records and for all other records is 'FF'.

3.5.7.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under DF_{TELECOM}.
- c) The ME Simulator sends a type 1 SEEK command using the 'from the beginning forwards' mode, a pattern-length of 1, and pattern 'A0' to the R-UIM.
The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access condition not fulfilled [CR6].
- d) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- e) The ME Simulator sends a type 1 SEEK command using the 'from the beginning forwards' mode, a pattern-length of 1, and pattern 'A0' to the R-UIM.
The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending of command [CR1-3, 6].
- f) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under DF_{TELECOM}.
- g) The ME Simulator sends a type 2 SEEK command using the 'from the beginning forwards' mode, a pattern-length of 1, and pattern 'A0' to the R-UIM.
The status condition returned by the R-UIM shall be SW1='9F', SW2='01' [CR1-3, 8].
- h) The ME Simulator sends a GET RESPONSE command to the R-UIM.

- 1 *The response data shall be '01' indicating that the first record has been found [CR4].*
- 2 i) The ME Simulator sends a type 2 SEEK command using the 'from the beginning
3 forwards' mode, a pattern-length of 3, and pattern 'A0 A1 A2' to the R-UIM.
- 4 j) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 5 *The response data shall be '01' indicating that the first record has been found [CR5a].*
- 6 k) The ME Simulator sends a type 2 SEEK command using the 'from the end backwards'
7 mode, a pattern-length of 3, and pattern 'A0 A1 A2' to the R-UIM.
- 8 l) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 9 *The response data shall be '02' indicating that the second record has been found [CR5b].*
- 10 m) The ME Simulator sends a type 2 SEEK command using the 'from the previous location
11 backwards' mode, a pattern-length of 16, and the following pattern to the R-UIM: 'A0
12 A1 A2 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D'.
- 13 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' [CR8].*
- 14 n) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 15 *The response data shall be '01' indicating that the first record has been found [CR5d].*
- 16 o) The ME Simulator sends a type 2 SEEK command using the 'from the next location
17 forwards' mode, a pattern-length of 3, and pattern 'A0 A1 A2' to the R-UIM.
- 18 p) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 19 *The response data shall be '02' indicating that the second record has been found [CR5c].*
- 20 q) The ME Simulator sends a SELECT command to the R-UIM to select EF_{ADN} again.
- 21 r) The ME Simulator sends a type 2 SEEK command using the 'from the next location
22 forwards' mode, a pattern-length of 3, and pattern 'A0 A1 A2' to the R-UIM.
- 23 s) The ME Simulator sends a GET RESPONSE command to the R-UIM to retrieve the
24 single byte of response data.
- 25 *The response data shall be '01' indicating that the first record has been found [CR9].*
- 26 t) The ME Simulator sends a SELECT command to the R-UIM to select EF_{ADN} again.
- 27 u) The ME Simulator sends a type 2 SEEK command using the 'from the previous location
28 backwards' mode, a pattern-length of 3, and pattern 'A0 A1 A2' to the R-UIM.
- 29 v) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 30 *The response data shall be '02' indicating that the second record has been found [CR10].*
- 31 w) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
32 UIM.
- 33 *The record data returned shall be that of the second record in EF_{ADN} [CR11].*
- 34 x) The ME Simulator sends a type 2 SEEK command using the 'from the beginning
35 forwards' mode, a pattern-length of 5, and pattern 'A1 A2 11 12 13' to the R-UIM.

1 The status condition returned by the R-UIM shall be SW1='94', SW2='04' - pattern not
2 found [CR1].

3 y) The ME Simulator sends a READ RECORD command using CURRENT mode to the R-
4 UIM.

5 The record data returned shall be that of the second record in EF_{ADN} [CR12].

6 z) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under
7 DF_{TELECOM}.

8 aa) The ME Simulator sends a type 2 SEEK command using the 'from the beginning
9 forwards' mode, a pattern-length of one more than the record size of EF_{ADN}, and 'FF' for
10 all pattern bytes to the R-UIM.

11 The status condition returned by the R-UIM shall be SW1='67', SW2='XX' - incorrect
12 parameter P3 [CR7].

13 3.5.8 INCREASE Function

14 3.5.8.1 Definition and Applicability

15 It shall be mandatory for all cards complying with [1] and containing EF_{COUNT} to support all
16 functions described therein.

17 3.5.8.2 Conformance Requirement

18 ~~CR1~~ This function shall add the value given to the value of the last
19 increased/updated record of the current cyclic EF and store the result into the oldest
20 record.

Deleted: CR1

21 ~~CR2~~ The record pointer shall be set to this record and this record becomes the first
22 record.

Deleted: CR2

23 ~~CR3~~ The function shall only be used if the INCREASE access condition is fulfilled.

Deleted: CR3

24 ~~CR4~~ The function shall accept as an input, the value to be added.

Deleted: CR4

25 ~~CR5~~ The function shall output the value of the increased record and the value which
26 has been added.

Deleted: CR5

27 ~~CR6~~ The R-UIM shall not perform the INCREASE if the result would exceed the
28 maximum value of the record (represented by all bytes set to 'FF').

Deleted: CR6

29 3.5.8.3 Test Purpose

30 Verify that the INCREASE function conforms to the above requirements.

31 3.5.8.4 Method of Test

32 3.5.8.4.1 Initial Conditions

33 1) The R-UIM is connected to an ME Simulator.

34 2) Default Parameters: EF_{COUNT}='00 00 01'.

3.5.8.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{COUNT} under DF_{CDMA}.
- c) The ME Simulator sends an INCREASE command with value '00 02' to the R-UIM.
The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access condition not fulfilled [CR3].
- d) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- e) The ME Simulator sends an INCREASE command with value '00 03' to the R-UIM.
The status condition returned by the R-UIM shall be SW1='9F', SW2='04' [CR4].
- f) The ME Simulator sends a GET RESPONSE command to the R-UIM.
The response data shall be '00 04 00 03' [CR1,5].
- g) The ME Simulator sends an INCREASE command with value '01 02' to the R-UIM.
- h) The ME Simulator sends a GET RESPONSE command to the R-UIM.
The response data shall be '01 06 01 02' [CR1].
- i) The ME Simulator sends a READ RECORD command using ABSOLUTE mode with record 1 to the R-UIM.
The data read shall be '01 02 06' [CR2].
- j) The ME Simulator sends an INCREASE command with value 'FF 00' to the R-UIM.
The status condition returned by the R-UIM shall be SW1='98', SW2='50' - increase cannot be performed - Max value reached [CR6].
- k) The ME Simulator sends an INCREASE command with value '03 FD' to the R-UIM.
- l) The ME Simulator sends a GET RESPONSE command to the R-UIM.
The response data shall be '05 03 03 FD' [CR5].

3.5.9 VERIFY CHV Function

3.5.9.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all functions described therein.

3.5.9.2 Conformance Requirement

~~CR1~~ This function shall verify the CHV presented by comparing it with the one stored in the R-UIM.

Deleted: CR1

~~CR2~~ The function shall accept as input, an indication of CHV1/CHV2 and the CHV.

Deleted: CR2

~~CR3~~ The verification process shall be subject to the following conditions being fulfilled:

Deleted: CR3

a) CHV is not disabled

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b) CHV is not blocked

CR4 If the access condition for a function to be performed on a file is CHV1 or CHV2, then a successful verification of the relevant CHV shall be required prior to the use of the function on this file unless the CHV is disabled.

Deleted: CR4

CR5 If the CHV presented is correct, the number of remaining CHV attempts for that CHV shall be reset to its initial value 3.

Deleted: CR5

CR6 If the CHV presented is false, the number of remaining CHV attempts for that CHV shall be decremented.

Deleted: CR6

CR7 After 3 consecutive false CHV attempts, not necessarily in the same card session, the respective CHV shall be blocked and the access condition never fulfilled until the UNBLOCK CHV function has been successfully performed on the respective CHV.

Deleted: CR7

3.5.9.3 Test Purpose

Verify that the VERIFY CHV function conforms to the above requirements.

NOTE: This function is only tested for CHV1. It is assumed that if the function operates correctly for CHV1, it will also operate correctly for CHV2 or other CHV.

Deleted: 6.5.9.4

3.5.9.4 Method of Test

3.5.9.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.
- 2) CHV1='0000'.

3.5.9.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under DF_{CDMA}.
- c) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-UIM.

The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access condition not fulfilled [CR4].

- d) The ME Simulator sends a VERIFY CHV command with CHV1 to the R-UIM.

The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending of command [CR1, 2].

- e) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-UIM.

The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending of command [CR4].

- 1 f) The ME Simulator sends a VERIFY CHV command with CHV1='12345678' to the R-
2 UIM.
- 3 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' -unsuccessful*
4 *CHV verification, at least one attempt left.*
- 5 g) The ME Simulator sends a STATUS command to the R-UIM.
- 6 *The following shall be true of the response data [CR6]:*
- 7 ▪ *Bits 1 through 4 of byte 19 shall indicate two VERIFY CHV1 attempts remaining.*
- 8 h) The ME Simulator sends a VERIFY CHV command with CHV1 to the R-UIM.
- 9 i) The ME Simulator sends a STATUS command to the R-UIM.
- 10 *The following shall be true of the response data [CR5]:*
- 11 ▪ *Bits 1 through 4 of byte 19 shall indicate three VERIFY CHV1 attempts remaining.*
- 12 j) The ME Simulator sends a VERIFY CHV command with CHV1='12345678' to the R-
13 UIM.
- 14 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' -unsuccessful*
15 *CHV verification, at least one attempt left.*
- 16 k) The ME Simulator sends a VERIFY CHV command with CHV1='12345678' to the R-
17 UIM.
- 18 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' -unsuccessful*
19 *CHV verification, at least one attempt left.*
- 20 l) The ME Simulator resets the R-UIM.
- 21 m) The ME Simulator sends a VERIFY CHV command with CHV1='12345678' to the R-
22 UIM.
- 23 *The status condition returned by the R-UIM shall be SW1='98', SW2='40' - unsuccessful*
24 *CHV verification, no attempt left [CR7].*
- 25 n) The ME Simulator resets the R-UIM.
- 26 o) The ME Simulator sends a VERIFY CHV command with CHV1 to the R-UIM.
- 27 *The status condition returned by the R-UIM shall be SW1='98', SW2='40' - CHV blocked*
28 *[CR3b, 7].*
- 29 p) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
30 DF_{CDMA}.
- 31 q) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-
32 UIM.
- 33 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - CHV blocked*
34 *[CR7].*
- 35 r) The ME Simulator sends an UNBLOCK CHV command to the R-UIM.

1 The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending
2 of command [CR7].

- 3 s) The ME Simulator sends a DISABLE CHV command to the R-UIM.
- 4 t) The ME Simulator resets the R-UIM.
- 5 u) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
6 DF_{CDMA}.
- 7 v) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-
8 UIM.

9 The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending
10 of command [CR4].

- 11 w) The ME Simulator sends a VERIFY CHV command with CHV1 to the R-UIM.

12 The status condition returned by the R-UIM shall be SW1='98', SW2='08' - in contradiction
13 with CHV status [CR3].

14 3.5.10 CHANGE CHV Function

15 3.5.10.1 Definition and Applicability

16 R-UIMs conforming to [1] shall support all functions described therein.

17 3.5.10.2 Conformance Requirement

18 ~~CR1~~ This function shall assign a new value to the relevant CHV, subject to the
19 following conditions being fulfilled:

Deleted: CR1

- 20 a) CHV is not disabled
- 21 b) CHV is not blocked

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22 ~~CR2~~ The function shall accept as input, an indication of CHV1/CHV2 and the old
23 and new CHV.

Deleted: CR2

24 ~~CR3~~ If the old CHV presented is correct, the number of remaining CHV attempts for
25 that CHV shall be reset to its initial value 3 and the new value for the CHV shall
26 become valid.

Deleted: CR3

27 ~~CR4~~ If the old CHV presented is false, the number of remaining CHV attempts for
28 that CHV shall be decremented and the value of the CHV shall remain unchanged.

Deleted: CR4

29 ~~CR5~~ After 3 consecutive false CHV presentations, not necessarily in the same card
30 session, the respective CHV shall be blocked and the access condition never fulfilled
31 until the UNBLOCK CHV function has been successfully performed on the respective
32 CHV.

Deleted: CR5

33 3.5.10.3 Test Purpose

34 Verify that the CHANGE CHV function conforms to the above requirements.

35 NOTE: This function is only tested for CHV1. It is assumed that if the function operates
36 correctly for CHV1, it will also operate correctly for CHV2 or other CHV.

1 3.5.10.4 Method of Test

2 3.5.10.4.1 Initial Conditions

- 3 1) The R-UIM is connected to an ME Simulator.
4 2) CHV1='00000000'.

5 3.5.10.4.2 Procedure

- 6 a) The ME Simulator resets the R-UIM.
7 b) The ME Simulator sends a CHANGE CHV command with an old CHV1 of '11111111'
8 and a new CHV1 of '33333333' to the R-UIM.

9 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
10 *CHV verification, at least one attempt left.*

- 11 c) The ME Simulator sends a STATUS command to the R-UIM.

12 *The following shall be true of the response data [CR4]:*

- 13
 - 14 *▪ Bits 1 through 4 of byte 19 shall indicate two VERIFY CHV1 attempts remaining.*

- 14 d) The ME Simulator sends a CHANGE CHV command with an old CHV1 of '00000000'
15 and new CHV1 of '33333333' to the R-UIM.

16 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
17 *of command [CR2].*

- 18 e) The ME Simulator sends a STATUS command to the R-UIM.

19 *The following shall be true of the response data [CR3]:*

- 20
 - 21 *▪ Bits 1 through 4 of byte 19 shall indicate three VERIFY CHV1 attempts remaining.*

- 21 f) The ME Simulator sends a CHANGE CHV command with an incorrect old CHV1 of
22 '00000000' and new CHV1 of '55555555' to the R-UIM.

23 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
24 *CHV verification, at least one attempt left.*

- 25 g) The ME Simulator sends a CHANGE CHV command with an incorrect old CHV1 of
26 '55555555' and new CHV1 of '33333333' to the R-UIM.

27 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
28 *CHV verification, at least one attempt left.*

- 29 h) The ME Simulator resets the R-UIM.

- 30 i) The ME Simulator sends a CHANGE CHV command with an incorrect old CHV1 of
31 '00000000' and new CHV1 of '55555555' to the R-UIM.

32 *The status condition returned by the R-UIM shall be SW1='98', SW2='40' - unsuccessful*
33 *CHV verification, no attempt left [CR5].*

- 34 j) The ME Simulator resets the R-UIM.

- 1 k) The ME Simulator sends a CHANGE CHV command with an old CHV1 of '33333333'
2 and new CHV1 of '55555555' to the R-UIM.
3 *The status condition returned by the R-UIM shall be SW1='98', SW2='40' - CHV blocked*
4 *[CR1b,5].*
- 5 l) The ME Simulator sends an UNBLOCK CHV command with new CHV1 of '55555555' to
6 the R-UIM.
7 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
8 *of command [CR5].*
- 9 m) The ME Simulator sends a DISABLE CHV command to the R-UIM.
- 10 n) The ME Simulator resets the R-UIM.
- 11 o) The ME Simulator sends a CHANGE CHV command with an old CHV1 '55555555' and
12 new CHV1 of '77777777' to the R-UIM.
13 *The status condition returned by the R-UIM shall be SW1='98', SW2='08' - in contradiction*
14 *with CHV status [CR1a].*
- 15 p) The ME Simulator sends an ENABLE CHV command to the R-UIM with CHV1
16 '55555555'.
17 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
18 *of command [CR1a].*

3.5.11 DISABLE CHV Function

3.5.11.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all functions described therein.

3.5.11.2 Conformance Requirement

CR1 The successful execution of this function shall have the effect that files protected by CHV1 are now accessible as if they were marked 'ALWAYS'.

Deleted: CR1

CR2 The function shall accept as input, CHV1.

Deleted: CR2

CR3 This function shall not be executed by the R-UIM when CHV1 is already disabled or blocked.

Deleted: CR3

CR4 If the CHV1 presented is correct, the number of remaining CHV1 attempts shall be reset to its initial value 3 and CHV1 shall be disabled.

Deleted: CR4

CR5 If the CHV1 presented is false, the number of remaining CHV1 attempts shall be decremented and CHV1 shall remain enabled.

Deleted: CR5

CR6 After 3 consecutive false CHV1 presentations, not necessarily in the same card session, CHV1 shall be blocked and the access condition never fulfilled until the UNBLOCK CHV function has been successfully performed on CHV1.

Deleted: CR6

1 3.5.11.3 Test Purpose

2 Verify that the DISABLE CHV function conforms to the above requirements.

3 3.5.11.4 Method of Test

4 3.5.11.4.1 Initial Conditions

5 1) The R-UIM is connected to an ME Simulator.

6 3.5.11.4.2 Procedure

7 a) The ME Simulator resets the R-UIM.

8 b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
9 DF_{CDMA}.

10 c) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-
11 UIM.

12 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access*
13 *condition not fulfilled.*

14 d) The ME Simulator sends a DISABLE CHV command with incorrect CHV1 to the R-UIM.

15 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
16 *CHV verification, at least one attempt left [CR5].*

17 e) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-
18 UIM.

19 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access*
20 *condition not fulfilled [CR5].*

21 f) The ME Simulator sends a STATUS command to the R-UIM.

22 *The following shall be true of the response data [CR5]:*

- 23 ▪ *Bit 8 of byte 14 shall be '0' indicating that CHV1 is still enabled.*
- 24 ▪ *Bits 1 through 4 of byte '19' shall indicate two VERIFY CHV1 attempts remaining.*

25 g) The ME Simulator sends a DISABLE CHV command to the R-UIM.

26 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
27 *of command [CR2].*

28 h) The ME Simulator sends a STATUS command to the R-UIM.

29 *The following shall be true of the response data [CR4]:*

- 30 ▪ *Bit 8 of byte 14 shall be '1' indicating that CHV1 is now disabled.*
- 31 ▪ *Bits 1 through 4 of byte '19' shall indicate three VERIFY CHV1 attempts remaining.*

32 i) The ME Simulator sends an ENABLE CHV command to the R-UIM.

33 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
34 *of command.*

- 1 j) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-
2 UIM.
3 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
4 *of command [CR1].*
- 5 k) The ME Simulator sends a DISABLE CHV command with incorrect CHV1 to the R-UIM.
6 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
7 *CHV verification, at least one attempt left.*
- 8 l) The ME Simulator sends a DISABLE CHV command with incorrect CHV1 to the R-UIM.
9 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
10 *CHV verification, at least one attempt left.*
- 11 m) The ME Simulator resets the R-UIM.
- 12 n) The ME Simulator sends a DISABLE CHV command with incorrect CHV1 to the R-UIM.
13 *The status condition returned by the R-UIM shall be SW1='98', SW2='40' - unsuccessful*
14 *CHV verification, no attempt left [CR6].*
- 15 o) The ME Simulator resets the R-UIM.
- 16 p) The ME Simulator sends a DISABLE CHV command to the R-UIM.
17 *The status condition returned by the R-UIM shall be SW1='98', SW2='40' - CHV blocked*
18 *[CR3,6].*
- 19 q) The ME Simulator sends an UNBLOCK CHV command to the R-UIM.
20 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
21 *of command [CR6].*
- 22 r) The ME Simulator sends a DISABLE CHV command to the R-UIM.
- 23 s) The ME Simulator sends a DISABLE CHV command to the R-UIM.
24 *The status condition returned by the R-UIM shall be SW1='98', SW2='08' - in contradiction*
25 *with CHV status [CR3].*

26 3.5.12 ENABLE CHV Function

27 3.5.12.1 Definition and Applicability

28 It shall be mandatory for all cards complying with [1] to support all functions described
29 therein.

30 3.5.12.2 Conformance Requirement

31 ~~CR1~~ The successful execution of this function shall have the effect that files
32 accessible as if they were marked 'ALWAYS' due to CHV1 being disabled are now
33 protected by CHV1.

Deleted: CR1

34 ~~CR2~~ The function shall accept as input, CHV1.

Deleted: CR2

1 ~~CR3~~ This function shall not be executed by the R-UIM when CHV1 is already enabled
 2 ~~or blocked.~~

Deleted: CR3

3 ~~CR4~~ If the CHV1 presented is correct, the number of remaining CHV1 attempts shall
 4 be reset to its initial value 3 and CHV1 shall be enabled.

Deleted: CR4

5 ~~CR5~~ If the CHV1 presented is false, the number of remaining CHV1 attempts shall be
 6 decremented and CHV1 shall remain disabled.

Deleted: CR5

7 ~~CR6~~ After 3 consecutive false CHV1 presentations, not necessarily in the same card
 8 session, CHV1 shall be blocked and the access condition never fulfilled until the
 9 UNBLOCK CHV function has been successfully performed on CHV1.

Deleted: CR6

10 3.5.12.3 Test Purpose

11 Verify that the ENABLE CHV function conforms to the above requirements.

12 3.5.12.4 Method of Test

13 3.5.12.4.1 Initial Conditions

- 14 1) The R-UIM is connected to an ME Simulator.
- 15 2) CHV1 on the R-UIM is disabled.

16 3.5.12.4.2 Procedure

- 17 a) The ME Simulator resets the R-UIM.
- 18 b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
 19 DF_{CDMA}.
- 20 c) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-
 21 UIM.
 22 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
 23 *of command.*
- 24 d) The ME Simulator sends an ENABLE CHV command with incorrect CHV1 to the R-UIM.
 25 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
 26 *CHV verification, at least one attempt left.*
- 27 e) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-
 28 UIM.
 29 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - access*
 30 *condition not fulfilled [CR1].*
- 31 f) The ME Simulator sends a STATUS command to the R-UIM.
 32 *The following shall be true of the response data [CR5]:*
 - 33 ▪ *Bit 8 of byte 14 shall be '1' indicating that CHV1 is still disabled.*
 - 34 ▪ *Bits 1 through 4 of byte '19' shall indicate two VERIFY CHV1 attempts remaining.*
- 35 g) The ME Simulator sends an ENABLE CHV command to the R-UIM.

- 1 The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending
2 of command [CR2].
- 3 h) The ME Simulator sends a STATUS command to the R-UIM.
4 The following shall be true of the response data [CR4]:
5 ▪ Bit 8 of byte 14 shall be '0' indicating that CHV1 is now enabled.
6 ▪ Bits 1 through 4 of byte '19' shall indicate three VERIFY CHV1 attempts remaining.
- 7 i) The ME Simulator resets the R-UIM.
- 8 j) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
9 DF_{CDMA}.
- 10 k) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-
11 UIM.
12 The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access
13 condition not fulfilled [CR1].
- 14 l) The ME Simulator sends a DISABLE CHV command to the R-UIM.
- 15 m) The ME Simulator sends an ENABLE CHV command with incorrect CHV1 to the R-UIM.
16 The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful
17 CHV verification, at least one attempt left.
- 18 n) The ME Simulator sends an ENABLE CHV command with incorrect CHV1 to the R-UIM.
19 The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful
20 CHV verification, at least one attempt left.
- 21 o) The ME Simulator resets the R-UIM.
- 22 p) The ME Simulator sends an ENABLE CHV command with incorrect CHV1 to the R-UIM.
23 The status condition returned by the R-UIM shall be SW1='98', SW2='40' - unsuccessful
24 CHV verification, no attempt left [CR6].
- 25 q) The ME Simulator resets the R-UIM.
- 26 r) The ME Simulator sends an ENABLE CHV command to the R-UIM.
27 The status condition returned by the R-UIM shall be SW1='98', SW2='40' or SW1='98',
28 SW2='08' -CHV blocked [CR3, 6].
- 29 s) The ME Simulator sends an UNBLOCK CHV command to the R-UIM.
30 The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending
31 of command [CR6].
- 32 t) The ME Simulator sends an ENABLE CHV command to the R-UIM.
33 The status condition returned by the R-UIM shall be SW1='98', SW2='08' - in contradiction
34 with CHV status [CR3].

1 3.5.13 UNBLOCK CHV Function

2 3.5.13.1 Definition and Applicability

3 It shall be mandatory for all cards complying with [1] to support all functions described
4 therein.

5 3.5.13.2 Conformance Requirement

6 ~~CR1~~ This function shall unblock a CHV that has been blocked by 3 consecutive
7 wrong CHV presentations. Deleted: CR1

8 ~~CR2~~ The function shall accept as input, an indication of CHV1/CHV2, the UNBLOCK
9 CHV and the new CHV. Deleted: CR2

10 ~~CR3~~ This function shall be performed regardless of whether or not the relevant CHV
11 is blocked. Deleted: CR3

12 ~~CR4~~ If the UNBLOCK CHV presented is correct, the new CHV value, presented
13 together with the UNBLOCK CHV is stored in the relevant EFCHV, the number of
14 remaining UNBLOCK CHV attempts for that UNBLOCK CHV is reset to its initial value
15 10 and the number of remaining CHV attempts for that CHV is reset to its initial value
16 3. Deleted: CR4

17 ~~CR5~~ After a successful unblocking attempt, the CHV shall be enabled, and the
18 relevant access condition level satisfied. Deleted: CR5

19 ~~CR6~~ If the presented UNBLOCK CHV is false, the number of remaining UNBLOCK
20 CHV attempts for that UNBLOCK CHV shall be decremented. Deleted: CR6

21 ~~CR7~~ After 10 consecutive false UNBLOCK CHV presentations, not necessarily in the
22 same card session, the respective UNBLOCK CHV shall be blocked. Deleted: CR7

23 ~~CR8~~ A false UNBLOCK CHV shall have no effect on the status of the respective CHV
24 itself. Deleted: CR8

25 3.5.13.3 Test Purpose

26 Verify that the UNBLOCK CHV function conforms to the above requirements.

27 NOTE 1: CR1 is tested in sections 6.5.9, 6.5.10, 6.5.11 and 6.5.12.

28 NOTE 2: This function is only tested for CHV1. It is assumed that if the function operates
29 correctly for CHV1, it will also operate correctly for CHV2 or other CHVs.

30 3.5.13.4 Method of Test

31 3.5.13.4.1 Initial Conditions

32 1) The R-UIM is connected to an ME Simulator.

33 3.5.13.4.2 Procedure

34 3.5.13.4.2.1 Procedure 1

35 a) The ME Simulator resets the R-UIM.

- 1 b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
2 DF_{CDMA}.
- 3 c) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 4 d) The ME Simulator sends an UNBLOCK CHV command with incorrect UNBLOCK CHV1
5 to the R-UIM.
- 6 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
7 *UNBLOCK CHV verification, at least one attempt left.*
- 8 e) The ME Simulator sends a STATUS command to the R-UIM.
- 9 *The following shall be true of the response data [CR6, 8]:*
- 10 ▪ *Bit 8 of byte 14 shall be '0' indicating that CHV1 is enabled.*
- 11 ▪ *Bits 1 through 4 of byte '19' shall indicate three VERIFY CHV1 attempts remaining.*
- 12 ▪ *Bits 1 through 4 of byte 20 shall indicate nine UNBLOCK CHV1 attempts remaining.*
- 13 f) The ME Simulator sends a DISABLE CHV command to the R-UIM.
- 14 g) The ME Simulator sends an UNBLOCK CHV command with incorrect UNBLOCK CHV1
15 to the R-UIM.
- 16 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
17 *UNBLOCK CHV verification, at least one attempt left.*
- 18 h) The ME Simulator sends a STATUS command to the R-UIM.
- 19 *The following shall be true of the response data [CR6,8]:*
- 20 ▪ *Bit 8 of byte 14 shall be '1' indicating that CHV1 is still disabled.*
- 21 ▪ *Bits 1 through 4 of byte 19 shall indicate three VERIFY CHV1 attempts remaining.*
- 22 ▪ *Bits 1 through 4 of byte 20 shall indicate eight UNBLOCK CHV1 attempts remaining.*
- 23 i) The ME Simulator sends an UNBLOCK CHV command to the R-UIM.
- 24 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
25 *of command [CR2].*
- 26 j) The ME Simulator sends a STATUS command to the R-UIM.
- 27 *The following shall be true of the response data [CR4,5]:*
- 28 ▪ *Bit 8 of byte 14 shall be '0' indicating that CHV1 is enabled*
- 29 ▪ *Bits 1 through 4 of byte 19 shall indicate three VERIFY CHV1 attempts remaining.*
- 30 ▪ *Bits 1 through 4 of byte 20 shall indicate ten UNBLOCK CHV1 attempts remaining.*
- 31 k) The ME Simulator sends a VERIFY CHV command with incorrect CHV1 to the R-UIM.
- 32 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
33 *CHV verification, at least one attempt left.*
- 34 l) The ME Simulator resets the R-UIM.

1 m) The ME Simulator sends an UNBLOCK CHV command to the R-UIM.

2 n) The ME Simulator sends a STATUS command to the R-UIM.

3 *The following shall be true of the response data [CR4]:*

- 4 ▪ *Bits 1 through 4 of byte 19 shall indicate three VERIFY CHV1 attempts remaining.*

5 o) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
6 DF_{CDMA}.

7 p) The ME Simulator sends a READ BINARY command using a length of 2 bytes to the R-
8 UIM.

9 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending
10 of command [CR5].*

11 3.5.13.4.2.2 Procedure 2 – Destructive Test

12 a) The ME Simulator resets the R-UIM.

13 b) The ME Simulator sends nine UNBLOCK CHV command with incorrect UNBLOCK
14 CHV1 to the R-UIM.

15 *The status condition returned by the R-UIM each time shall be SW1='98', SW2='04' -
16 unsuccessful UNBLOCK CHV verification, at least one attempt left.*

17 c) The ME Simulator resets the R-UIM.

18 d) The ME Simulator sends an UNBLOCK CHV command with incorrect UNBLOCK CHV1
19 to the R-UIM.

20 *The status condition returned by the R-UIM shall be SW1='98', SW2='40' - unsuccessful
21 UNBLOCK CHV verification, no attempt left.*

22 e) The ME Simulator sends an UNBLOCK CHV command to the R-UIM.

23 *The status condition returned by the R-UIM shall be SW1='98', SW2='40' - UNBLOCK CHV
24 blocked.*

25 3.5.14 INVALIDATE Function

26 3.5.14.1 Definition and Applicability

27 It shall be mandatory for all cards complying with [1] to support all functions described
28 therein.

29 3.5.14.2 Conformance Requirement

30 ~~CR1~~ This function shall invalidate the current EF.

Deleted: CR1

31 ~~CR2~~ After an INVALIDATE function the respective flag in the file status shall be
32 changed accordingly.

Deleted: CR2

33 ~~CR3~~ This function shall only be performed if the INVALIDATE access condition for
34 the current EF is satisfied.

Deleted: CR3

1 CR4 An invalidated file shall no longer be available within the application for any
 2 ~~function except for the SELECT and REHABILITATE functions.~~

Deleted: CR4

3.5.14.3 Test Purpose

Verify that the INVALIDATE function conforms to the above requirements.

3.5.14.4 Method of Test

3.5.14.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.
- 2) EF_{TMSI} on the R-UIM is not invalidated.

3.5.14.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under DF_{CDMA}.
- c) The ME Simulator sends an INVALIDATE command to the R-UIM.
The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access condition not fulfilled [CR3].
- d) The ME Simulator gains the security access condition(s) specified for both INVALIDATE and REHABILITATE on EF_{TMSI}.
- e) The ME Simulator sends a SELECT command to the R-UIM to select EF_{TMSI} once more.
- f) The ME Simulator sends a GET RESPONSE command to the R-UIM.
The following shall be true of the response data:
 - Bit 1 of byte 12 shall be '1' indicating that the file is not invalidated.
- g) The ME Simulator sends an INVALIDATE command to the R-UIM.
The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending of command [CR3].
- h) The ME Simulator sends a SELECT command to the R-UIM to select EF_{TMSI} again.
The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' - length 'XX' of the response data [CR4].
- i) The ME Simulator sends a GET RESPONSE command to the R-UIM.
The following shall be true of the response data [CR1, 2]:
 - Bit 1 of byte 12 shall be '0' indicating that the file is invalidated.
- j) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- k) The ME Simulator sends a UPDATE BINARY command using a length of 1 byte and data 'C1' to the R-UIM.

1 *The status condition returned by the R-UIM shall be SW1='98', SW2='10' - in contradiction*
 2 *with invalidation status [CR4].*

3 1) The ME Simulator sends a READ BINARY command to the R-UIM.

4 *The status condition returned by the R-UIM shall be SW1='98', SW2='10' - in contradiction*
 5 *with invalidation status [CR4].*

6 m) The ME Simulator sends a REHABILITATE command to the R-UIM.

7 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
 8 *of command [CR4].*

9 3.5.15 REHABILITATE Function

10 3.5.15.1 Definition and Applicability

11 It shall be mandatory for all cards complying with [1] to support all functions described
 12 therein.

13 3.5.15.2 Conformance Requirement

14 CR1 This function shall rehabilitate an invalidated current EF.

Deleted: CR1

15 CR2 After a REHABILITATE function the respective flag in the file status byte shall be
 16 changed accordingly.

Deleted: CR2

17 CR3 The function shall only be performed if the REHABILITATE access condition for
 18 the current EF is satisfied.

Deleted: CR3

19 3.5.15.3 Test Purpose

20 Verify that the REHABILITATE function conforms to the above requirements.

21 3.5.15.4 Method of Test

22 3.5.15.4.1 Initial Conditions

- 23 1) The R-UIM is connected to an ME Simulator.
- 24 2) EF_{TMSI} on the R-UIM is invalidated.

25 3.5.15.4.2 Procedure

- 26 a) The ME Simulator resets the R-UIM.
- 27 b) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
 28 DF_{CDMA}.
- 29 c) The ME Simulator sends a REHABILITATE command to the R-UIM.
 30 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - access*
 31 *condition not fulfilled [CR3].*
- 32 d) The ME Simulator gains the security access condition(s) specified for both INVALIDATE
 33 and REHABILITATE on EF_{TMSI}.
- 34 e) The ME Simulator sends a SELECT command to the R-UIM to select EF_{TMSI} once more.

- 1 f) The ME Simulator sends a GET RESPONSE command to the R-UIM.
2 *The following shall be true of the response data:*
 - 3 ▪ *Bit 1 of byte 12 shall be '0' indicating that the file is invalidated.*
- 4 g) The ME Simulator sends a REHABILITATE command to the R-UIM.
5 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
6 *of command [CR1, 3].*
- 7 h) The ME Simulator sends a SELECT command to the R-UIM to select EF_{TMSI} again.
- 8 i) The ME Simulator sends a GET RESPONSE command to the R-UIM.
9 *The following shall be true of the response data [CR1, 2]:*
 - 10 - *Bit 1 of byte 12 shall be '1' indicating that the file is no longer invalidated.*
- 11 j) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 12 k) The ME Simulator sends a UPDATE BINARY command using a length of 1 byte and
13 data 'D1' to the R-UIM.
14 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
15 *of command [CR1].*

16 3.5.16 SLEEP Function

17 3.5.16.1 Definition and Applicability

18 It shall be mandatory for all cards complying with [1] to support all functions described
19 therein.

20 This function is an obsolete GSM function that was issued by Phase 1 MEs.

21 3.5.16.2 Conformance Requirement

22 ~~CR1~~ The function always returns a good status condition.

Deleted: CR1

23 3.5.16.3 Test Purpose

24 Verify that the SLEEP function conforms to the above requirement.

25 3.5.16.4 Method of Test

26 3.5.16.4.1 Initial Conditions

- 27 1) The R-UIM is connected to an ME Simulator.

28 3.5.16.4.2 Procedure

- 29 a) The ME Simulator resets the R-UIM.
- 30 b) The ME Simulator sends a SLEEP command to the R-UIM.

31 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
32 *of command [CR1].*

1 3.5.17 STORE ESN_ME Function

2 3.5.17.1 Definition and Applicability

3 It shall be mandatory for all cards complying with [1] to support all functions described
4 therein.

5 The purpose of this command is to store the ESN_ME from the ME into EF_{ESNME}

6 3.5.17.2 Conformance Requirement

7 ~~CR1~~ The STORE ESN_ME function shall update the ESN length and value in EF_{ESNME}
8 and return the appropriate values for the Change Flag and Usage Indicator
9 Confirmation fields.

Deleted: CR1

10 3.5.17.3 Test Purpose

11 Verify that the STORE ESN_ME function conforms to the above requirements.

12 3.5.17.4 Method of Test

13 3.5.17.4.1 Initial Conditions

- 14 a) The R-UIM is connected to an ME Simulator.
- 15 b) ESN='00 00 00 00' in EF_{ESNME}

16 3.5.17.4.2 Procedure

- 17 a) The ME Simulator resets the R-UIM.
- 18 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 19 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 20 d) The ME Simulator sends a STORE ESN_ME command to the R-UIM with ESN='00 00 00
21 00' (ESN of same length and value as that of the ESN_ME in EF_{ESNME}).

22 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending
23 of the command [CR1].*

- 24 e) The ME Simulator sends a GET RESPONSE command to the R-UIM [CR1].

25 *The following shall be true of the response data:*

- 26 ▪ Bit 0 of byte 1 shall be '0' indicating that ESN_ME did not change.
- 27 ▪ Bit 4 of byte 1 indicating Usage Indicator Confirmation shall be the same value
28 indicated in EF_{USGIND}.

- 29 f) The ME Simulator sends a STORE ESN_ME command to the R-UIM with ESN='01 02 03
30 04' (ESN with a different value).

31 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending
32 of the command [CR1].*

- 33 g) The ME Simulator sends a GET RESPONSE command to the R-UIM [CR1].

34 *The following shall be true of the response data:*

- 1 ▪ Bit 0 of byte 1 shall be '1' indicating that ESN_ME changed
- 2 ▪ Bit 4 of byte 1 indicating Usage Indicator Confirmation shall be the same value
- 3 indicated in EF_{USGIND}.
- 4 h) The ME Simulator sends a SELECT command to the R-UIM to select EF_{ESNME}.
- 5 i) The ME Simulator sends a READ BINARY command using a length of 5 bytes to the R-
- 6 UIM.
- 7 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending*
- 8 *of command [CR1-4].*
- 9 *The data string returned shall be '04 01 02 03 04' [CR1].*

3.5.18 BASE STATION CHALLENGE Function

3.5.18.1 Definition and Applicability

12 It shall be mandatory for all cards complying with [1] to support all functions described
13 therein.

14 The purpose of this command is to generate a random number that will be sent to the network.

3.5.18.2 Conformance Requirement

16 CR1 The BASE STATION CHALLENGE function shall return RANDBS.

Deleted: .

17 CR2 The BASE STATION CHALLENGE function should not return the same RANDBS
18 for consecutive identical values of RANDSeed.

Deleted:

3.5.18.3 Test Purpose

20 Verify that the BASE STATION CHALLENGE function conforms to the above requirement.

3.5.18.4 Method of Test

3.5.18.4.1 Initial Conditions

- 23 1) The R-UIM is connected to an ME Simulator.
- 24 2) RANDSeed=a random 4 byte hexadecimal value.

3.5.18.4.2 Procedure

- 26 a) The ME Simulator resets the R-UIM.
- 27 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 28 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 29 d) The ME Simulator sends a BASE STATION CHALLENGE command to the R-UIM with
- 30 RANDSeed.

31 *The status condition returned by the R-UIM shall be SW1='9F', SW2='04' - normal ending*
32 *of the command [CR1].*

- 33 e) The ME Simulator sends a GET RESPONSE command to the R-UIM [CR1].

- f) The ME Simulator sends a BASE STATION CHALLENGE command to the R-UIM with the same RANDSeed value in (d)

The status condition returned by the R-UIM shall be SW1='9F', SW2='04' – normal ending of the command [CR1].

- g) The ME Simulator sends a GET RESPONSE command to the R-UIM to retrieve RANDBS, which should differ from the RANDBS returned in (e) [CR2].

3.5.19 UPDATE SSD Function

3.5.19.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all functions described therein.

BSC Mode: The Update SSD command to the RUIM contains the bit 2 of Process Control Byte value set to '000x 0100'.

This command is used to generate a new SSD Key.

3.5.19.2 Conformance Requirement

~~CR1 _____ In 'BSC' (BASE STATION CHALLENGE) mode, this function can only be executed once after the issuance of the Base Station Challenge function.~~

Deleted:

3.5.19.3 Test Purpose

Verify that the UPDATE SSD function conforms to the above requirement.

3.5.19.4 Method of Test

3.5.19.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.
- 2) RANDSSD=a random 7 byte hexadecimal value, RANDSeed=a random 4 byte hexadecimal value, Process_Control='00', and ESN='00 00 00 00'.

3.5.19.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- d) The ME Simulator sends an UPDATE SSD command to the R-UIM with RANDSSD, Process_Control, and ESN.

The status condition returned by the R-UIM shall be SW1='98', SW2='34' – sequence error [CR1].

- e) The ME Simulator sends a BASE STATION CHALLENGE command to the R-UIM with RANDSeed.
- f) The ME Simulator sends an UPDATE SSD command to the R-UIM in 'BSC' mode with RANDSSD, Process_Control, and ESN.

1 The status condition returned by the R-UIM shall be SW1='90', SW2='00' – normal ending
2 of the command [CR1].

3 3.5.20 CONFIRM SSD Function

4 3.5.20.1 Definition and Applicability

5 It shall be mandatory for all cards complying with [1] to support all functions described
6 therein.

7 This command is used to confirm a successful authentication between the network and the
8 card. It generates AUTHBS and compares it with the one sent by the network. If they match,
9 the new SSD fields are copied in the current SSD fields.

10 BSC Mode: The Update SSD command to the R-UIM contains the bit 2 of Process Control Byte
11 value set to '000x 0100'.

12 3.5.20.2 Conformance Requirement

13 CR1 ~~The CONFIRM SSD calculates "AUTHBS" (as specified in [1]) and compares it~~
14 ~~with the one sent by the network. If AUTHBS from the network matches the AUTHBS~~
15 ~~calculated by the R-UIM, the R-UIM copies the new SSD values in the current SSD storage~~
16 ~~area.~~

Deleted:
Deleted: The CONFIRM SSD function generates "AUTHBS" (RANDBS + SSD_A NEW + ESN/UIM_ID + IMSI-M/IMSI_T)

17 CR2 ~~The CONFIRM SSD function can only be executed once after an "UPDATE SSD"~~
18 ~~function in BSC mode.~~

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19 CR3 ~~If the AUTHBS of the network does not equal the AUTHBS calculated by the~~
20 ~~CONFIRM SSD function, the R-UIM shall return SW1='98' and SW2='04'.~~

Deleted:

21 3.5.20.3 Test Purpose

22 Verify that the CONFIRM SSD function conforms to the above requirement.

23 3.5.20.4 Method of Test

24 3.5.20.4.1 Initial Conditions

- 25 1) The R-UIM is connected to an ME Simulator.
- 26 2) ESN='00 00 00 00', RANDSSD=a random 7 byte hexadecimal value, and RANDSeed=a
27 random 4 byte hexadecimal value.

28 3.5.20.4.2 Procedure

- 29 a) The ME Simulator resets the R-UIM.
- 30 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 31 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 32 d) The ME Simulator sends a BASE STATION CHALLENGE command to the R-UIM with
33 RANDSeed.
- 34 e) The ME Simulator sends an UPDATE SSD command to the R-UIM with RANDSSD,
35 Process_Control='00', and ESN.

f) The ME Simulator sends a CONFIRM SSD command to the R-UIM with a correctly calculated network AUTHBS based on RANDBS.

Internally, the new SSD values are stored in the R-UIM, and these new values are to be used in subsequent authentication calculations [CR1].

The status returned by the R-UIM shall be SW1='90', SW2='00' – normal ending of the command [CR2].

g) The ME Simulator sends a CONFIRM SSD command to the R-UIM with a correctly calculated network AUTHBS based on RANDBS.

The status returned by the R-UIM shall be SW1='98', SW2='34' – sequence error [CR2].

h) The ME Simulator resets the R-UIM.

i) The ME Simulator sends a VERIFY CHV command to the R-UIM.

j) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

k) The ME Simulator sends a BASE STATION CHALLENGE command to the R-UIM with RANDSeed.

l) The ME Simulator sends a CONFIRM SSD command to the R-UIM with AUTHBS.

The status returned by the R-UIM shall be SW1='98', SW2='34' – sequence error [CR2].

m) The ME Simulator sends a BASE STATION CHALLENGE command to the R-UIM with RANDSeed.

n) The ME Simulator sends a UPDATE SSD command to the R-UIM with RANDSSD, Process_Control='00', and ESN.

o) The ME Simulator sends a CONFIRM SSD command to the R-UIM with an incorrectly calculated network AUTHBS based on RANDBS.

The status returned by the R-UIM shall be SW1='98', SW2='04' authentication failed [CR3].

3.5.21 RUN CAVE Function

3.5.21.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all functions described therein.

This command is used to perform authentication calculations and generate encryption Keys.

3.5.21.2 Conformance Requirement

CR1 ~~_____~~ The RUN CAVE function shall cause the R-UIM to run the CAVE algorithm to perform authentication calculations (AUTHR/AUTHU) and enable the calculation of ciphering keys upon the invocation of a subsequent command.

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CR2 ~~_____~~ The RUN CAVE function shall successfully compute AUTHR/AUTHU and enable the calculation of the correct ciphering keys using the CAVE test vectors defined in [11], [12].

Deleted:

- 1 3.5.21.3 Test Purpose
- 2 Verify that the RUN CAVE function conforms to the above requirement.
- 3 3.5.21.4 Method of Test
- 4 3.5.21.4.1 Initial Conditions
- 5 1) The R-UIM is connected to an ME Simulator.
- 6 2) ESN='00 00 00 00', RAND=a random 4 byte hexadecimal value, and RANDU=a random 3
- 7 byte hexadecimal value.
- 8 3.5.21.4.2 Procedure
- 9 a) The ME Simulator resets the R-UIM.
- 10 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 11 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 12 d) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='00',
- 13 RAND, DigLength='00', DIGIT='00 00 00', Process_Control='00', and ESN.
- 14 *The status returned by the R-UIM shall be SW1='9F', SW2='03' [CR1].*
- 15 e) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 16 *The data returned shall be correct for the given CAVE algorithm and input parameters.*
- 17 f) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='00',
- 18 RAND, DigLength='00', DIGIT='00 00 00', Process_Control='10', and ESN.
- 19 *The status returned by the R-UIM shall be SW1='9F', SW2='03' [CR1].*
- 20 g) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 21 *The data returned shall be correct for the given CAVE algorithm and input parameters*
- 22 h) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='01',
- 23 RANDU, DigLength='00', DIGIT='00 00 00', Process_Control='00', and ESN.
- 24 *The status returned by the R-UIM shall be SW1='9F', SW2='03' [CR1].*
- 25 i) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 26 *The data returned shall be correct for the given CAVE algorithm and input parameters*
- 27 j) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='01',
- 28 RANDU, DigLength='00', DIGIT='00 00 00', Process_Control='10', and ESN.
- 29 *The status returned by the R-UIM shall be SW1='9F', SW2='03' [CR1].*
- 30 k) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 31 *The data returned shall be correct for the given CAVE algorithm and input parameters.*
- 32 l) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='00',
- 33 RAND, DigLength='04', DIGIT='00 00 01', Process_Control='00', and ESN.

1 The status returned by the R-UIM shall be SW1='9F', SW2='03' [CR1].

2 m) The ME Simulator sends a GET RESPONSE command to the R-UIM.

3 The data returned shall be correct for the given CAVE algorithm and input parameters.

4 n) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='00',
5 RAND, DigLength='04', DIGIT='00 00 01', Process_Control='10', and ESN.

6 The status returned by the R-UIM shall be SW1='9F', SW2='03' [CR1].

7 o) The ME Simulator sends a GET RESPONSE command to the R-UIM.

8 The data returned shall be correct for the given CAVE algorithm and input parameters.

9 p) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='01',
10 RANDU, DigLength='04', DIGIT='00 00 01', Process_Control='00', and ESN.

11 The status returned by the R-UIM shall be SW1='9F', SW2='03' [CR1].

12 q) The ME Simulator sends a GET RESPONSE command to the R-UIM.

13 The data returned shall be correct for the given CAVE algorithm and input parameters.

14 r) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='01',
15 RANDU, DigLength='04', DIGIT='00 00 01', Process_Control='10', and ESN.

16 The status returned by the R-UIM shall be SW1='9F', SW2='03' [CR1].

17 s) The ME Simulator sends a GET RESPONSE command to the R-UIM.

18 The data returned shall be correct for the given CAVE algorithm and input parameters.

19 t) Repeat steps 'a' through 'f' using the data defined for the CAVE algorithm test as
20 specified in [11, 12] [CR2].

21 3.5.22 GENERATE KEY/VPM Function

22 3.5.22.1 Definition and Applicability

23 It shall be mandatory for all cards complying with [1] to support all functions.

24 This command is used to generate Keys for the handset. The RUN CAVE command must be
25 executed prior to this command with bit4 (Save Registers ON) set to '1' in the Process Control
26 field.

27 3.5.22.2 Conformance Requirement

28 CR1 The GENERATE KEY/VPM (Voice Privacy Mask) function may be invoked at any
29 time following the RUN CAVE function with the "save registers" function ON. One or
30 more instances of the RUN CAVE function may be performed with the "save registers"
31 function OFF during the subsequent time period, but the input parameters to the
32 GENERATE KEY/VPM function shall be those values that were stored upon the most
33 recent invocation of the RUN CAVE function with the "save registers" function turned
34 ON. If the sequence is not respected the R-UIM shall return SW1='98' and SW2='34'.

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35 CR2 The GENERATE KEY/VPM command shall return a fixed-length 64-bit key
36 along with a VPM of host-specified length upon the execution of the GET RESPONSE

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1 command. The host-specified length is calculated from the GENERATE KEY/VPM
2 command parameters “First octet” and “Last octet”.

3 3.5.22.3 Test Purpose

4 Verify that the GENERATE KEY/VPM function conforms to the above requirement.

5 3.5.22.4 Method of Test

6 3.5.22.4.1 Initial Conditions

- 7 1) The R-UIM is connected to an ME Simulator.
- 8 2) ESN='00 00 00 00', RAND=a random 4 byte hexadecimal value, and RANDU=a random 3
9 byte hexadecimal value.

10 3.5.22.4.2 Procedure

- 11 a) The ME Simulator resets the R-UIM.
- 12 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 13 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 14 d) The ME Simulator sends a GENERATE KEY/VPM command to the R-UIM with VPM's
15 first octet to be output = '00' and VPM's last octet to be output = '40'.
16 *The status condition returned by the R-UIM shall be SW1='98', SW2='34' – sequence error*
17 *[CR1].*
- 18 e) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='00',
19 RAND, DigLength='00', DIGIT='00 00 00', Process_Control='00', and ESN.
- 20 f) The ME Simulator sends a GENERATE KEY/VPM command to the R-UIM with VPM's
21 first octet to be output = '00' and VPM's last octet to be output = '40'.
22 *The status condition returned by the R-UIM shall be SW1='98', SW2='34' – sequence error*
23 *[CR1].*
- 24 g) The ME Simulator resets the R-UIM.
- 25 h) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 26 i) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 27 j) The ME Simulator sends a RUN CAVE command to the R-UIM with RANDTYPE='00',
28 RAND, DigLength='00', DIG='00 00 00', Process_Control='10', and ESN.
- 29 k) The ME Simulator sends a GENERATE KEY/VPM command with VPM's first octet to be
30 output = '00' and VPM's last octet to be output = '40'.
31 *The status condition returned by the R-UIM shall be SW1='9F', SW2='49' (key + VPM*
32 *output) [CR1, CR2].*
- 33 l) The ME Simulator sends a GET RESPONSE with the correct parameters (P3='49') to
34 retrieve Key and VPM computed by the R-UIM.

1 *Bytes 1 to 8 of the response data shall be the key while the rest of the data shall be the*
 2 *VPM [CR3].*

- 3 m) The ME Simulator resets the R-UIM.
- 4 n) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 5 o) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 6 p) The ME Simulator sends a RUN CAVE to the R-UIM with RANDTYPE='00', RAND,
 7 DigLength='00', DIGIT='00 00 00', Process_Control='10', and ESN.
- 8 q) The ME Simulator sends a RUN CAVE to the R-UIM with RANDTYPE='01', RANDU,
 9 DigLength='00', DIGIT='00 00 00', Process_Control='00', and ESN.
- 10 r) The ME Simulator sends a GENERATE KEY/VPM command to the R-UIM with VPM's
 11 first octet to be output = '00' and VPM's last octet to be output = '40'.

12 *The status condition returned by the R-UIM shall be SW1='9F', SW2='49' (key + VPM*
 13 *output) [CR1, CR2].*

- 14 s) The ME Simulator sends a GET RESPONSE command (P3='49') to the R-UIM to retrieve
 15 Key and VPM computed by the R-UIM.

16 *Bytes 1 to 8 of the response data shall be the key while the rest of the data shall be the*
 17 *VPM [CR2].*

- 18 t) The ME Simulator resets the R-UIM.
- 19 u) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 20 v) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 21 w) The ME Simulator sends a RUN CAVE command to the R-UIM with the parameters:
 22 RANDTYPE='00', RAND DigLength='00', DIGIT='00 00 00', Process_Control='10', and
 23 ESN.
- 24 x) The ME Simulator sends a GENERATE KEY/VPM command to the R-UIM with VPM
 25 Length='FF FF'.

26 *The status condition returned by the R-UIM shall be SW1='9F', SW2='08' (key) [CR1, CR2].*

- 27 y) The ME Simulator sends a GET RESPONSE command to the R-UIM to retrieve Key.

28 *Bytes 1 to 8 of the response data shall be the key [CR2].*

29 3.5.23 MS Key Request Function

30 3.5.23.1 Definition and Applicability

31 It shall be mandatory for all cards complying with [1] to support all functions described
 32 therein.

33 This command causes the R-UIM to generate its private and public key pair.

3.5.23.2 Conformance Requirement

CR1 The MS Key Request response shall return a Result Code of '00' if the value of A-key Protocol Revision in the MS Key Request Command is supported by the R-UIM.

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CR2 The MS Key Request response shall return a Result Code of '03' if the value of A-key Protocol Revision in the MS Key Request Command is not supported by the R-UIM.

Deleted:

CR3 The MS Key Request response shall return a Result Code of '01' if the R-UIM cannot compute the MS_Result.

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3.5.23.3 Test Purpose

Verify that the MS Key Request function conforms to the above requirements.

3.5.23.4 Method of Test

3.5.23.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.
- 2) The ME simulator has knowledge of the R-UIM's A-key protocol revision.
- 3) RANDSeed=a random 20 byte hexadecimal value, A-key Protocol Revision='02', Parameter P LEN='40', and Parameter G Length='14'.

3.5.23.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- d) The ME Simulator sends a MS Key Request command to the R-UIM with RANDSeed, A-key Protocol Revision, Parameter P Length, Parameter G Length, Parameter P, and Parameter G.
The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending of the command.
- e) The ME Simulator sends a GET RESPONSE command to the R-UIM.
The Result Code returned by the R-UIM shall be '00' (Operation successful) [CR1].
- f) The ME Simulator sends a MS Key Request command to the R-UIM with A-key Protocol Revision='01'.
The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending of the command.
- g) The ME Simulator sends a GET RESPONSE command to the R-UIM.
The Result Code returned by the R-UIM shall be '03' (Protocol version mismatch) [CR2].
- h) The ME Simulator sends a MS Key Request command to the R-UIM with Parameter P='00...00' and Parameter G='01...01' (R-UIM is unable to compute MS_RESULT.).

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1 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending*
 2 *of the command.*

3 i) The ME Simulator sends a GET RESPONSE command to the R-UIM.

4 *The Result Code returned by the R-UIM shall be '01', (Unknown reason) [CR3].*

5 3.5.24 Key Generation Request Function

6 3.5.24.1 Definition and Applicability

7 It shall be mandatory for all cards complying with [1] to support all functions described
 8 therein.

9 This command completes the DIFFIE HELLMAN key exchange. The R-UIM temporarily stores a
 10 subset of the DIFFIE HELLMAN key exchange result as the A-key.

11 3.5.24.2 Conformance Requirement

12 CR1 ~~_____~~ *Prior to this function, the MS Key Request must be issued. If the R-UIM has not*
 13 *received an MS Key Request Command, it shall return a Result Code of '06'.*

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14 CR2 ~~_____~~ *The Key Generation Request response shall return a Result Code of '00', MS*
 15 *Result Length, and MS result of MS Result length long if the mobile station has*
 16 *successfully calculated the A-key.*

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17 3.5.24.3 Test Purpose

18 Verify that the Key Generation Request function conforms to the above requirements.

19 3.5.24.4 Method of Test

20 Initial Conditions

- 21 1) The R-UIM is connected to an ME Simulator.
- 22 2) The ME simulator has the knowledge of the A-key protocol revision of R-UIM.
- 23 3) RANDSeed=a random 20 byte hexadecimal value, A-key Protocol Revision='02',
 24 Parameter P Length='40', and Parameter G Length='14'.

25 3.5.24.4.1 Procedure

- 26 a) The ME Simulator resets the R-UIM.
- 27 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 28 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 29 d) The ME Simulator sends a Key Generation Request command to the R-UIM with the
 30 correct BS Result.

31 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending*
 32 *of the command.*

33 e) The ME Simulator sends a GET RESPONSE command to the R-UIM.

34 *The Result Code returned by the R-UIM shall be '06' (sequence error).*

- 1 f) The ME Simulator sends a MS Key Request command to the R-UIM with RANDSeed, A-
2 key Protocol Revision, Parameter P Length, Parameter G Length, Parameter P, and
3 Parameter G.
4 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending*
5 *of the command.*
- 6 g) The ME Simulator sends a GET RESPONSE command to the R-UIM.
7 *The Result Code returned by the R-UIM shall be '00' (Operation successful).*
- 8 h) The ME Simulator sends a KEY GENERATION REQUEST command to the R-UIM with
9 the correct BS Result.
10 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX'.*
- 11 i) The ME Simulator sends a GET RESPONSE command to the R-UIM.
12 *The Result Code returned by the R-UIM shall be '00' (Operation successful), MS Result*
13 *Length='XX-2', and the correct MS Result [CR2].*

14 3.5.25 Commit Function

15 3.5.25.1 Definition and Applicability

16 It shall be mandatory for all cards complying with [1] to support all functions described
17 therein.

18 This command shall move temporary OTA fields in temporary memory to permanent memory.

19 3.5.25.2 Conformance Requirement

20 ~~CR1 If SP_LOCK_STATE (depends on EF_{SPC} and EF_{OTA}), and NAM_LOCK_STATE~~
21 ~~(EF_{NAMLOCK} bit 1) = '0', the R-UIM shall move data from temporary memory to permanent~~
22 ~~memory.~~

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23 3.5.25.3 Test Purpose

24 Verify that the Commit function conforms to the above requirements. The Commit Request
25 command shall move data, which are successfully programmed through the commands
26 Validation Request, Key Generation Request, Download Request, SSPR Download Request,
27 PUZL Download Request, and 3GPD Download Request from temporary memory to permanent
28 memory.

29 3.5.25.4 Method of Test

30 3.5.25.4.1 Initial Conditions

- 31 1. The R-UIM is connected to an ME Simulator.
- 32 2. The NAM_LOCK_STATE = '1', SP_LOCK_STATE = '0', SPL_P_REV ID = '03' in EF_{OTA},
33 SPL_P_REV = '01' in EF_{OTA}.

34 3.5.25.4.2 Procedure

- 35 a) The ME Simulator resets the R-UIM.
- 36 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.

- 1 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 2 d) The ME Simulator sends a COMMIT command to the R-UIM.
- 3 *The R-UIM shall return the Result Code '0A' (Rejected, Mobile station locked).*
- 4 e) The ME Simulator resets the R-UIM.
- 5 f) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 6 g) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 7 h) The ME Simulator sends a SELECT command to the R-UIM to select EF_{NAMLOCK}.
- 8 i) The R-UIM sends an Update Binary command to the R-UIM with '00'
- 9 (NAM_LOCK_STATE is set to '0').
- 10 j) The ME Simulator sends a MS Key Request command to the R-UIM with RANDSeed, A-
- 11 key Protocol Revision, Parameter P Length, Parameter G Length, Parameter P, and
- 12 Parameter G.
- 13 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending*
- 14 *of the command.*
- 15 k) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 16 *The Result Code returned by the R-UIM shall be '00' (Operation successful) [CR1].*
- 17 l) The ME Simulator sends a KEY GENERATION REQUEST command to the R-UIM with
- 18 the correct parameter.
- 19 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending*
- 20 *of the command.*
- 21 m) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 22 *The Result Code returned by the R-UIM shall be '00' (Operation successful), MS Result*
- 23 *Length='XX-2', and the correct MS Result.*
- 24 n) The ME Simulator sends a COMMIT command to the R-UIM.
- 25 *The Result Code returned by the R-UIM shall be '00' (Accepted, operation successful). The*
- 26 *R-UIM shall set the value of the A-KEY_P NAM indicator equal to A_KEY_TEMP_S [CR1].*

27 3.5.26 Validate Function

28 3.5.26.1 Definition and Applicability

29 It shall be mandatory for all cards complying with [1] to support all functions described

30 therein.

31 This command requests validation of a single block of data.

32 3.5.26.2 Conformance Requirement

33 CR1 , This function shall conform to [13] Table 4.5.4-1 Validation Parameter Block

34 Types. The Validate response shall return a Result Code of '07' if the requested Block

35 ID is not supported.

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1 CR2 The Validate response shall return a Result Code of '00' and associated Block ID
2 if the SPC received in the command matches the one stored in R-UIM.

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3 CR3 The Validate response shall return a Result Code of '0B' and associated Block ID
4 if the SPC received in the command mismatches the one stored in R-UIM.

Deleted: CR3

5 CR4 The Validate response shall return a Result Code of '00' and Block ID='01'
6 (Change SPC) if the R-UIM accepts the SPC Change.

Deleted: CR4

7 CR5 The Validate response shall return a Result Code of '00' and Block ID='02'
8 (Validate SPASM) if the R-UIM accepts the Validate SPASM command.

Deleted: CR5

9 CR6 The Validate response shall return a Result Code of '02' and Block ID if the
10 Validation Request Message contains a Validation Parameter Block having a size
11 different from that supported by the R-UIM.

Deleted: CR6

12 CR7 The Validate response shall return a Result Code of '04' and Block ID if the
13 Validation Request Message contains a Validation Parameter Block with a parameter
14 value that is out-of-range.

Deleted: CR7

15 CR8 The Validate response shall return a Result Code of '0A' if Block ID = '01' and
16 SP_LOCK_STATE = '1'.

Deleted: CR8

17 CR9 The Validate response shall return a Result Code of '0C' if Block ID = '01',
18 SP_LOCK_STATE = '0', SPC in the R-UIM is set to the default value, and the R-UIM is
19 programmed by the user to deny SPC change.

Deleted: CR9

20 CR10 The Validate response shall return a Result Code of '0E' if Block ID = '02' and
21 the programming session is initiated by the user.

Deleted: CR10

22 CR11 The Validate response shall return a Result Code of '0D' if Block ID = '02', the
23 NAM_LOCK_STATE = '1', and AUTH_OTAPA received mismatches the one calculated by
24 the R-UIM.

Deleted: CR11

25 3.5.26.3 Test Purpose

26 Verify that the Validate function conforms to the above requirements.

27 3.5.26.4 Method of Test

28 3.5.26.4.1 Initial Conditions

- 29 1) The R-UIM is connected to an ME Simulator.
- 30 2) The ME simulator has the knowledge of the validation parameter block data, for
31 example, EF_{SPC}='00 00 00'.
- 32 3) EF_{NAMLOCK}='07' and RANDSeed=a random 4 byte hexadecimal value.

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33 3.5.26.4.2 Procedure

- 34 a) The ME Simulator resets the R-UIM.
- 35 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 36 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

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1 **d)** The ME Simulator sends an OTAPA REQUEST command to the R-UIM with
 2 Start Stop= '80' and RANDSeed.

3 *The status condition returned by the R-UIM shall be SW1='9F', SW2='06' - normal*
 4 *ending of the command.*

5 **e)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

6 *The R-UIM shall return Result Code='00' (Accepted - Operation successful,*
 7 *SP_LOCK_STATE is set to '0'), NAM_LOCK indicator='01, and RAND OTAPA.*

8 **f)** The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='00',
 9 Block Length='03, and Parameter Data='01 01 01' (incorrect SPC code).

10 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' - normal*
 11 *ending of the command.*

12 **g)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

13 *The R-UIM shall return the Block ID='00' and Result Code='0B' (Rejected - Invalid SPC)*
 14 *[CR3].*

15 **h)** The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='00',
 16 Block Length='03', Parameter Data='00 00 00' (correct SPC code).

17 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' - normal*
 18 *ending of the command.*

19 **i)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

20 *The R-UIM shall return Block ID='00' and Result Code='00' (Accepted - Operation*
 21 *successful, programming of parameters is then allowed, i.e. SP_LOCK_STATE is set to*
 22 *'0') [CR2].*

23 **j)** The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='01',
 24 Block Length='03', Parameter Data='00 00 01' (correct change SPC parameters).

25 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' - normal*
 26 *ending of the command.*

27 **k)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

28 *The R-UIM shall return Block ID='01' and Result Code='00' (Accepted - Operation*
 29 *successful [CR4].*

30 **l)** The ME Simulator sends an OTAPA REQUEST command to the R-UIM with start
 31 parameter and RANDSeed.

32 *The status condition returned by the R-UIM shall be SW1='9F', SW2='06' - normal*
 33 *ending of the command.*

34 **m)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

35 **n)** The R-UIM shall return Result Code='00' (Accepted - Operation successful),
 36 SP_LOCK_STATE is set to '1', NAM_LOCK indicator='01', and RAND OTAPA.

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1 o) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='01',
 2 Block Length='03', Parameter Data='00 00 02'.

3 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal*
 4 *ending of the command.*

5 p) The ME Simulator sends a GET RESPONSE command to the R-UIM.

6 *The R-UIM shall return Block ID='01' and Result Code='0A' (Rejected – Mobile station*
 7 *locked) [CR8].*

8 q) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='00',
 9 Block Length='03', Parameter Data='00 00 01' (correct SPC code).

10 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal*
 11 *ending of the command.*

12 r) The ME Simulator sends a GET RESPONSE command to the R-UIM.

13 *The R-UIM shall return Block ID='00' and Result Code='00' (Accepted – Operation*
 14 *successful, programming of parameters is then allowed, i.e. SP_LOCK_STATE is set to*
 15 *'0') [CR2].*

16 s) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='01',
 17 Block Length='03', Parameter Data='00 00 00' (correct change SPC parameters).

18 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal*
 19 *ending of the command.*

20 t) The ME Simulator sends a GET RESPONSE command to the R-UIM.

21 *The R-UIM shall return Block ID='01' and Result Code='00' (Accepted – Operation*
 22 *successful) [CR4].*

23 u) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID = '02',
 24 Block Length='03', and incorrect AUTH_OTAPA parameter (incorrect SPASM
 25 validation).

26 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal*
 27 *ending of the command.*

28 v) The ME Simulator sends a GET RESPONSE command to the R-UIM.

29 *The R-UIM shall return the Block ID='02' and Result Code='0D' (Rejected – Invalid*
 30 *SPASM) [CR11].*

31 w) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID = '02',
 32 Block Length='03', and correct AUTH_OTAPA parameter (correct SPASM validation).

33 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal*
 34 *ending of the command.*

35 x) The ME Simulator sends a GET RESPONSE command to the R-UIM.

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1 The R-UIM shall return the Block ID='02' and Result Code='00 (Accepted – Operation
 2 successful), access to the NAM parameters and indicators are no more protected by
 3 SPASM, i.e. NAM_LOCK_STATE is set to '0') [CR5].

4 **y)** The ME Simulator sends an OTAPA REQUEST command to the R-UIM with
 5 Start_Stop= '80' and RANDSeed.

6 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal
 7 ending of the command.

8 **z)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

9 The R-UIM shall return Result Code='00' (Accepted – Operation successful), and
 10 NAM_LOCK indicator='0' [CR5].

11 **aa)** The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='FF'
 12 (Reserved Block ID) and Block Length='00'.

13 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal
 14 ending of the command.

15 **bb)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

16 The R-UIM shall return Block ID='FF' and Result Code='07' (Invalid Block ID).

17 **cc)** The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='00' and
 18 Block Length='00'.

19 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal
 20 ending of the command.

21 **dd)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

22 The R-UIM shall return Block ID='00' and Result Code='02' (Rejected – Data size
 23 mismatch) [CR6].

24 **ee)** The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='00'
 25 Block Length='03', and Parameter Data='0A 00 00'.

26 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal
 27 ending of the command.

28 **ff)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

29 The R-UIM shall return Block ID='00' and Result Code='04' (Rejected – Invalid
 30 parameter) [CR7].

31 **gg)** The ME Simulator sends a SELECT command to the R-UIM to select EF_{OTAPASPC}.

32 **hh)** The ME Simulator sends an UPDATE BINARY command to the R-UIM with '10' to
 33 deny changing of SPC value.

34 **ii)** The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='01',
 35 Block Length='03', Parameter Data='00 00 00'.

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1 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal
2 ending of the command.

3 ji) The ME Simulator sends a GET RESPONSE command to the R-UIM.

4 The R-UIM shall return Block ID='01' and Result Code='0C' (Rejected – SPC changed
5 denied by the user) [CR9].

6 kk) The ME Simulator sends an OTAPA REQUEST command to the R-UIM with
7 Start_Stop='00'.

8 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal
9 ending of the command.

10 ll) The ME Simulator sends a GET RESPONSE command to the R-UIM.

11 The R-UIM shall return Result Code='00' (Accepted – Operation successful), and
12 NAM LOCK indicator='0'.

13 mm) The ME Simulator sends a SELECT command to the R-UIM to select EF_{NAMLOCK}.

14 nn) The ME Simulator sends an UPDATE BINARY command to the R-UIM with "00" to
15 tell the R-UIM that a user-initiated OTA session is started.

16 oo) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID = '02',
17 Block Length='03', and AUTH_OTAPA parameter.

18 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal
19 ending of the command.

20 pp) The ME Simulator sends a GET RESPONSE command to the R-UIM.

21 The R-UIM shall return the Block ID='02' and Result Code='0E' (Rejected – BLOCK_ID
22 not expected in this mode) [CR10].

23 3.5.27 Configuration Request Function

24 3.5.27.1 Definition and Applicability

25 It shall be mandatory for all cards complying with [1] to support all functions described
26 therein.

27 This command responds with the Block ID, Block Length, Result Code, and Parameter Data
28 requested by the ME in a single block. This function shall conform to [13] Table 3.5.2-1 NAM
29 Parameter Block Types.

30 3.5.27.2 Conformance Requirement

31 CR1 The Configuration Request response shall return a Block ID, Block Length, a
32 Result Code of '00', and associated Parameter Block Data if the operation is successful.

33 CR2 The Configuration Request response shall return a Block ID, Block Length '00',
34 and a Result Code of '07', if the requested parameter block is not supported in the R-
35 UIM.

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1 CR3 _____ The Configuration Request response shall return a Block ID, Block Length '00',
 2 and a ~~Result Code of '0A' [Rejected – Mobile station locked]; if SP_LOCK_STATE; or~~
 3 NAM_LOCK_STATE, or both are set to '1'.

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4 3.5.27.3 Test Purpose

5 Verify that the Configuration Request function conforms to the above requirements.

6 3.5.27.4 Method of Test

7 3.5.27.4.1 Initial Conditions

- 8 1. The R-UIM is connected to an ME Simulator.
- 9 2. The minimum Param Data response length for Block ID='00' (CDMA /Analog NAM) is 20
 10 bytes.
- 11 3. The maximum Param Data response length for Block ID='01' (Mobile Directory Number)
 12 is 8 bytes.
- 13 4. The minimum Param Data response length for Block ID='02' (CDMA NAM) is 16 bytes.
- 14 5. The maximum Param Data response length for Block ID='03' (IMSI_T) is 7 bytes.
- 15 6. R-UIM is not protected by SPC or SPASM, i.e. both SP_LOCK_STATE and NAM_LOCK
 16 STATE are set to '0'

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17 3.5.27.4.2 Procedure

- 18 a) The ME Simulator resets the R-UIM.
- 19 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 20 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 21 d) The ME Simulator sends an OTAPA Request command to the R-UIM to start the
 22 programming procedure.
- 23 e) The ME Simulator sends a CONFIGURATION REQUEST command to the R-UIM with
 24 Block ID='00' (CDMA/Analog NAM).
 25 *The status condition returned by the R-UIM shall be SW1='9F', SW2='17' – normal ending*
 26 *of the command.*
- 27 f) The ME Simulator sends a GET RESPONSE command to the R-UIM.
 28 *The R-UIM shall return the Block ID='00', Block Length='14', correct Param Data, and*
 29 *Result Code='00' (Accepted – Operation successful) [CR1].*
- 30 g) The ME Simulator sends a CONFIGURATION REQUEST command to the R-UIM with
 31 Block ID='01' (Mobile Directory Number).
 32 *The status condition returned by the R-UIM shall be SW1='9F', SW2='0B' – normal ending*
 33 *of the command.*
- 34 h) The ME Simulator sends a GET RESPONSE command to the R-UIM.

1 The R-UIM shall return Block ID='01', Block Length='08', correct Param Data, and Result
2 Code='00' and Result Code returned by the R-UIM shall be '00 (Accepted – Operation
3 successful) [CR1].

4 i) The ME Simulator sends a CONFIGURATION REQUEST command to the R-UIM with
5 Block ID='02' (CDMA NAM).

6 The status condition returned by the R-UIM shall be SW1='9F', SW2='13' – normal ending
7 of the command.

8 j) The ME Simulator sends a GET RESPONSE command to the R-UIM.

9 The R-UIM shall return Block ID='02', Block Length='10', correct Param Data, and Result
10 Code = '00' (Accepted – Operation successful) [CR1].

11 k) The ME Simulator sends a CONFIGURATION REQUEST command to the R-UIM with
12 Block ID='03' (IMSI_T).

13 The status condition returned by the R-UIM shall be SW1='9F', SW2='0A' – normal ending
14 of the command.

15 l) The ME Simulator sends a GET RESPONSE command to the R-UIM.

16 The R-UIM shall return Block ID='03', Block Length='07', correct Param Data, and Result
17 Code='00' (Accepted – Operation successful) [CR1].

18 m) The ME Simulator sends a CONFIGURATION REQUEST command to the R-UIM with
19 Block ID='FF' (reserved Block ID).

20 The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending
21 of the command.

22 n) The ME Simulator sends a GET RESPONSE command to the R-UIM.

23 The R-UIM shall return Block ID='FF', Block Length='00', and Result Code='07' (Block ID
24 not supported) [CR2].

25 o) The ME Simulator sends a SELECT command to the R-UIM to select EF ~~NAMLOCK~~

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26 p) The ME Simulator sends an UPDATE BINARY command to the R-UIM with '07'
27 (NAM_LOCK_STATE, NAM_LOCK, and OTA_MODE are set to '1').

28 q) The ME Simulator sends a CONFIGURATION REQUEST command to the R-UIM with
29 Block ID='03' (IMSI_T).

30 The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending
31 of the command.

32 r) The ME Simulator sends a GET RESPONSE command to the R-UIM.

33 The R-UIM shall return Block ID='03', Block Length='00', and Result Code='0A' (Mobile
34 Station locked) [CR3].

35 s) The ME Simulator sends an Update Binary command to the R-UIM with '04'
36 (OTA_MODE is set to 1, NAM_LOCK_STATE and ~~NAM LOCK~~ are set to '0').

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- 1 t) The ME Simulator resets the R-UIM.
- 2 u) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 3 y) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 4 w) The ME Simulator sends an OTAPA REQUEST command to the R-UIM with
5 START_STOP field = '80' and RANDSeed.
- 6 x) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='00', Block
7 Length='03', Parameter Data='00 00 00'.
- 8 y) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='01', Block
9 Length='03', Parameter Data='01 02 03'.
- 10 z) The ME Simulator resets the R-UIM.
- 11 aa) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 12 bb) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 13 cc) The ME Simulator sends an OTAPA Request command to the R-UIM with START_STOP
14 field = '80' and RANDSeed.
- 15 dd) The ME Simulator sends a CONFIGURATION REQUEST command to the R-UIM with
16 Block ID = '03' (IMSL_T).
17 *The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending*
18 *of the command.*
- 19 ee) The ME Simulator sends a GET RESPONSE command to the R-UIM.
20 *The R-UIM shall return Block ID='03', Block Length='00', and Result Code='0A' (Mobile*
21 *Station locked) [CR3].*

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The ME Simulator sends an UPDATE BINARY command to the R-UIM with SPC = '01 02 03' (not the default value).¶
The ME Simulator sends a SELECT command to the R-UIM to select EF_{SPCS}.¶
The ME Simulator sends an UPDATE BINARY command to the R-UIM with SPC Status bit = '1' (SPC is not default value).¶
The ME Simulator sends an OTAPA Request command to the R-UIM to start the programming procedure.¶

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3.5.28 Download Request Function

3.5.28.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all functions described therein.

This command attempts to download 'NUM_BLOCKS' of data to the R-UIM, each block having a Block ID, Block Length, and Parameter Data of length 'Block Length'. This function shall only conform to [13] Table 4.5.2-1 NAM Parameter Block Types.

3.5.28.2 Conformance Requirement

- 30 CR1 _____ The Download Request response shall return a Block ID, and a Result Code of
31 '00' if the operation is successful.
- 32 CR2 _____ The Download Request response shall return a Block ID and a Result Code of
33 '02' if the parameter block received in the Download Request Command has a size
34 different from that supported by the R-UIM.

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CR3 _____ The Download Request response shall return a Block ID and a Result Code of '07' if ~~the parameter block received in the Download Request Command is not~~ supported by the R-UIM.

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~~CR4~~ _____ The Download Request response shall return a Block ID and a Result Code of '04' if the parameter block received in the Download Request Command has a parameter value that is out-of-range.

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~~CR5~~ _____ The Download Request response shall return a Block ID and a Result Code of '05' if the parameter block received in the Download Request Command has a MAX_SID_NID larger than that supported by the R-UIM.

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3.5.28.3 Test Purpose

Verify that the Download Request function conforms to the above requirements.

3.5.28.4 Method of Test

3.5.28.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.
- 2) The minimum Param Data response length for Block ID='00' (CDMA /Analog NAM) is 17 bytes. The initial CDMA/Analog NAM value shall set to '00...00'.
- 3) The maximum Param Data response length for Block ID='01' (Mobile Directory Number) is 8 bytes. The initial MDN value shall be set to '00...00'.
- 4) The minimum Param Data response length for Block ID='02' (CDMA NAM) is 13 bytes. The initial CDMA NAM value shall be set to '00...00'.
- 5) The maximum Param Data response length for Block ID='03' (IMSI_T) is 7 bytes. The initial value of IMSI_T shall be set to '00...00'.
- 6) The protocol capability/validation/configuration request/response procedures have been performed successfully. All the security related conditions are satisfied.
- 7) The ME may query an appropriate EF data to determine if adequate storage space exists in the R-UIM EFs.

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3.5.28.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- d) The ME Simulator sends an OTAPA Request command to the R-UIM to start the programming procedure.
- e) The ME Simulator sends a DOWNLOAD REQUEST command to the R-UIM with Block ID='00' (CDMA/Analog NAM), Block Length='11', with N_SID_NID=1.
- f) The ME Simulator sends a GET RESPONSE command to the R-UIM.

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- 1 The R-UIM shall return Block ID='00' and Result Code='00' (Accepted - Operation
2 successful) [CR1].
- 3 g) The ME Simulator sends a COMMIT command to the R-UIM.
4 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' - normal ending
5 of the command.
- 6 h) The ME Simulator sends a GET RESPONSE command to the R-UIM.
7 The R-UIM shall return Block ID='00' and Result Code='00' (Accepted - Operation
8 successful) [CR1].
- 9 i) The ME Simulator sends a DOWNLOAD REQUEST command to the R-UIM with Block
10 ID='01' (Mobile Directory Number), Block Length='08', and Param Data='F1 22 33 44 55
11 A6 B7 C8'.
12 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' - normal ending
13 of the command.
- 14 j) The ME Simulator sends a GET RESPONSE command to the R-UIM.
15 The R-UIM shall return Block ID='01' and Result Code='00' (Accepted - Operation
16 successful) [CR1].
- 17 k) The ME Simulator sends a DOWNLOAD REQUEST command to the R-UIM with Block
18 ID='02' (CDMA NAM), Block Length='0D', with N_SID_NID=1.
19 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' - normal ending
20 of the command.
- 21 l) The ME Simulator sends a GET RESPONSE command to the R-UIM.
22 The R-UIM shall return Block ID='02' and Result Code '00', (Accepted - Operation
23 successful) [CR1].
- 24 m) The ME Simulator sends a DOWNLOAD REQUEST command to the R-UIM with Block
25 ID='03' (IMSI_T), Block Length='07', and Param Data='00...00'.
26 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' - normal ending
27 of the command.
- 28 n) The ME Simulator sends a GET RESPONSE command to the R-UIM.
29 The R-UIM shall return Block ID='03' and Result Code='00' (Accepted - Operation
30 successful) [CR1].
- 31 o) The ME Simulator sends a DOWNLOAD REQUEST command to the R-UIM with correct
32 parameter. Block ID='03' (IMSI_T), Block Length='09' (exceeds the recommended length
33 of '07') and Param Data='00...00'.
34 The status condition returned by the R-UIM shall be SW1='9F', SW2='02' - normal ending
35 of the command.
- 36 p) The ME Simulator sends a GET RESPONSE command to the R-UIM.

- 1 *The R-UIM shall return Block ID='03' and Result Code='02' (Rejected – Data Size Mismatch)*
2 *[CR2].*
- 3 q) The ME Simulator sends a DOWNLOAD REQUEST command to the R-UIM with Block
4 ID='FF' (Reserved Block ID), Block Length='07', and Param Data='00...00'.
5 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending*
6 *of the command.*
- 7 r) The ME Simulator sends a GET RESPONSE command to the R-UIM.
8 *The R-UIM shall return Block ID='FF' and Result Code='07' (Rejected - Block ID value not*
9 *supported) [CR3].*
- 10 s) The ME Simulator sends a DOWNLOAD REQUEST command to the R-UIM with Block
11 ID='01' (Mobile Directory Number), Block Length='08', and Param Data='00...00'.
12 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending*
13 *of the command.*
- 14 t) The ME Simulator sends a GET RESPONSE command to the R-UIM.
15 *The R-UIM shall return Block ID='01' and Result Code='04' (Rejected – Invalid Parameter)*
16 *[CR4].*
- 17 u) The ME Simulator sends a DOWNLOAD REQUEST command to the R-UIM with Block
18 ID='02' (CDMA NAM), Block Length='0D', and Param Data='xx...xx', wherein N_SID_NID
19 is larger than that supported by R-UIM.
20 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending*
21 *of the command.*
- 22 v) The ME Simulator sends a GET RESPONSE command to the R-UIM.
23 *The R-UIM shall return Block ID='02' and Result Code '05', (Rejected – SID/NID length*
24 *mismatch) [CR5].*
- 25 w) The ME Simulator sends a SELECT command to the R-UIM to select EF~~NAMLOCK~~ Deleted: NAMLOCK
- 26 x) The ME Simulator sends an UPDATE BINARY command to the R-UIM with '00' to start
27 the user-initiated OTASP.
- 28 y) The ME Simulator sends a DOWNLOAD REQUEST command to the R-UIM with Block
29 ID='03' (IMSI_T), Block Length='07', and Param Data='00...00'.
30 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending*
31 *of the command.*
- 32 z) The ME Simulator sends a GET RESPONSE command to the R-UIM.
33 *The R-UIM shall return Block ID='00' and Result Code='00' (Accepted – Operation*
34 *successful) [CR1].*

1 3.5.29 SSPR Configuration Request Function

2 3.5.29.1 Definition and Applicability

3 It shall be mandatory for all cards complying with [1] to support all functions described
4 therein.

5 This command allows the network to ask for SSPR data stored in particular area of the R-UIM.
6 The R-UIM responds with Block ID, Result code, Block Length, and Param Data. This function
7 shall conform to [13] Table 3.5.3-1 SSPR Parameter Block Types.

8 3.5.29.2 Conformance Requirement

9 CR1 ~~_____~~ The SSPR Configuration Request response shall return a Block ID, a Result
10 Code of '00', Block Length, and Param Data if the operation is successful.

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11 CR2 ~~_____~~ If Block ID='01' (Preferred Roaming List Parameter Block), then octets 2 through
12 4 are used as inputs for this command. For other Block IDs, octets 2 through 4 are
13 ignored.

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14 CR3 ~~_____~~ The SSPR Configuration Request response shall return a Block ID, a Result
15 Code of '07', and Block Length='00' if the requested parameter block is not supported in
16 the R-UIM.]

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17 CR4 ~~_____~~ If the SSPR Configuration Request Message request for Block ID = '01' and the
18 Request Offset received in the message specifies an offset which is invalid for the
19 current preferred roaming list, the SSPR Configuration Request response shall return a
20 Block ID, a Result Code of '02', Segment Offset = Request Offset, and Segment Size =
21 '00'.

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22 CR5 ~~_____~~ The SSPR Configuration Request response shall include the preferred roaming
23 list data starting at the offset corresponding to the Request Offset and not exceeding a
24 maximum number of octets corresponding to the Request Max Size received in the
25 SSPR Configuration Request Message.

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26 CR6 ~~_____~~ The R-UIM shall set the Segment Size field to the number of octets of the
27 preferred roaming list included in the returned Parameter Block.

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28 CR7 ~~_____~~ The R-UIM shall set the Last Segment field to '1' if the Parameter Block returned
29 in the response message contains the last segment of the preferred roaming list data;
30 '0', otherwise.

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31 CR8 ~~_____~~ The SSPR Configuration Request response shall return a Block ID, Block Length
32 '00', and a Result Code of '0A' [Rejected – Mobile station locked], if SP_LOCK_STATE, or
33 NAM_LOCK_STATE, or both are set to '1'.

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34 3.5.29.3 Test Purpose

35 Verify that the SSPR Configuration Request function conforms to the above requirements.

36 3.5.29.4 Method of Test

37 3.5.29.4.1 Initial Conditions

38 1) The R-UIM is connected to an ME Simulator.

- 1 2) The maximum Param Data response length for Block ID='00' (Preferred Roaming List
- 2 Dimension) is 9 bytes.
- 3 3) The protocol capability/validation request/response procedures have been performed
- 4 successfully. All the security related conditions are satisfied.
- 5 4) The R-UIM supports the PRL parameter block.

6 5) The CUR_PR_LIST_SIZE is 10 bytes

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7 3.5.29.4.2 Procedure

- 8 a) The ME Simulator resets the R-UIM.
- 9 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 10 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 11 d) The ME Simulator sends an OTAPA REQUEST command to the R-UIM to initiate the
- 12 programming procedure.

- 13 e) The ME Simulator sends a SSPR CONFIGURATION REQUEST command to the R-UIM
- 14 with Block ID='00' (Preferred Roaming List Dimension).

15 *The status condition returned by the R-UIM shall be SW1='9F', SW2='0C' – normal ending*

16 *of the command.*

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Offset='00...00', and Request Max
Size='09'

- 17 f) The ME Simulator sends a GET RESPONSE command to the R-UIM.

18 *The R-UIM shall return Block ID='00', Result Code='00' (Accepted – Operation successful),*

19 *Block Length='09' and Param Data [CR1].*

- 20 g) The ME Simulator sends a SSPR CONFIGURATION REQUEST command to the R-UIM
- 21 with Block ID='01' (Preferred Roaming List), Request Offset='00...00', and Request Max
- 22 Size='00'.

23 *The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending*

24 *of the command [CR2].*

- 25 h) The ME Simulator sends a GET RESPONSE command to the R-UIM.

26 *The R-UIM shall return Block ID='01', Result Code='00' (Accepted – Operation successful),*

27 *and Block Length='00' [CR1].*

- 28 i) The ME Simulator sends a SSPR CONFIGURATION REQUEST command to the R-UIM
- 29 with Block ID='FF' (Reserved Block ID).

30 *The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending*

31 *of the command.*

- 32 j) The ME Simulator sends a GET RESPONSE command to the R-UIM.

33 *The R-UIM shall return Block ID='FF' (Reserved Block ID), Result Code='07', and Block*

34 *Length='00' (Rejected -Block ID value not supported) [CR3].*

- 1 k) The ME Simulator sends a SSPR CONFIGURATION REQUEST command to the R-UIM
 2 with Block ID='01' (Preferred Roaming List), Request Offset='00...0B', and Request Max
 3 Size='02'.
 4 *The status condition returned by the R-UIM shall be SW1='9F', SW2='07' – normal ending
 5 of the command.*
- 6 l) The ME Simulator sends a GET RESPONSE command to the R-UIM.
 7 *The R-UIM shall return Block ID='01', Result Code='02' (Rejected – Data Size Mismatch),
 8 Block Length='04', and Param Data = '00 00 0B 00' [CR4].*
- 9 m) The ME Simulator sends a SSPR CONFIGURATION REQUEST command to the R-UIM
 10 with Block ID='01' (Preferred Roaming List), Request Offset='00...00', and Request Max
 11 Size='05'.
 12 *The status condition returned by the R-UIM shall be SW1='9F', SW2='0C' – normal ending
 13 of the command.*
- 14 n) The ME Simulator sends a GET RESPONSE command to the R-UIM.
 15 *The R-UIM shall return Block ID='01', Result Code='00' (Accepted – Operation Successful),
 16 Block Length='09', and Param Data = '00 00 00 05 XX XX XX XX XX' [CR5, 6, 7].*
- 17 o) The ME Simulator sends a SSPR CONFIGURATION REQUEST command to the R-UIM
 18 with Block ID='01' (Preferred Roaming List), Request Offset='00...05' and Request Max
 19 Size='05'.
 20 *The status condition returned by the R-UIM shall be SW1='9F', SW2='0C' – normal ending
 21 of the command.*
- 22 p) The ME Simulator sends a GET RESPONSE command to the R-UIM.
 23 *The R-UIM shall return Block ID='01', Result Code='00' (Accepted – Operation Successful),
 24 Block Length='09', and Param Data = '01 00 05 05 XX XX XX XX XX' [CR7].*
- 25 q) The ME Simulator sends a SELECT command to the R-UIM to select EF_{NAMLOCK}.
- 26 r) The ME Simulator sends an Update Binary command to the R-UIM with '07'
 27 (NAM_LOCK_STATE is set to '1').
- 28 s) The ME Simulator sends a SSPR CONFIGURATION REQUEST command to the R-UIM
 29 with Block ID='00' (PRL Dimension).
 30 *The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending
 31 of the command.*
- 32 t) The ME Simulator sends a GET RESPONSE command to the R-UIM.
 33 *The R-UIM shall return Block ID='00', Block Length='00', and Result Code='0A' (Mobile
 34 Station locked) [CR8].*
- 35 u) The ME Simulator sends an Update Binary command to the R-UIM with '04'
 36 (NAM_LOCK_STATE is set to '0' and OTA_MODE to '1').
- 37 v) The ME Simulator resets the R-UIM.

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- 1 w) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 2 x) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 3 y) The ME Simulator sends an OTAPA REQUEST command to the R-UIM with
4 START STOP field = '80' and RANDSeed.
- 5 z) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='00', Block
6 Length='03', Parameter Data='00 00 00'.
- 7 aa) The ME Simulator sends a VALIDATE command to the R-UIM with Block ID='01', Block
8 Length='03', Parameter Data='01 02 03'.
- 9 bb) The ME Simulator resets the R-UIM.
- 10 cc) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 11 dd) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 12 ee) The ME Simulator sends an OTAPA Request command to the R-UIM to start the
13 programming procedure with START STOP field = '80' and RANDSeed.
- 14 ff) The ME Simulator sends a SSPR CONFIGURATION REQUEST command to the R-UIM
15 with Block ID='00' (PRL Dimension).
16 *The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending*
17 *of the command.*
- 18 gg) The ME Simulator sends a GET RESPONSE command to the R-UIM.
19 *The R-UIM shall return Block ID='00', Block Length='00', and Result Code='0A' (Mobile*
20 *Station locked) [CR8].*

3.5.30 SSPR Download Request Function

3.5.30.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all functions described therein.

This command allows the network to download SSPR data into the R-UIM. The data contains a Block ID, a Block Length, and Param Data having 'block length size'. The R-UIM responds with the Block ID, Result Code, Segment Offset, and Segment Size. This function shall only conform to [13] Table 4.5.3-1 SSPR Parameter Block Types.

3.5.30.2 Conformance Requirement

CR1 _____ The SSPR Download Request response shall return a Block ID and a Result Code of '00' if the operation is successful.

CR2 _____ The SSPR Download Request response shall return a Block ID and a Result Code of '07' if the parameter block received in the SSPR Download Request Command is not supported by the R-UIM.

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Deleted: <#>The ME Simulator sends an UPDATE BINARY command to the R-UIM with SPC Status bit = '1' (SPC is not default value).¶ <#>The ME Simulator sends an OTAPA Request command to the R-UIM to start the programming procedure.¶

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1 CR3 ~~_____~~ The SSPR Download Request response shall return a Block ID and a Result
 2 Code of '02' if the ~~parameter block received in the SSPR-Download Request-Command~~
 3 has a size different from that supported by the R-UIM.

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4 CR4 ~~_____~~ The SSPR Download Request response shall return a Block ID and a Result
 5 Code of '08' if the Segment Offset in conjunction with Segment Size are inconsistent
 6 with the preferred roaming list storage capabilities of the R-UIM.

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7 CR5 ~~_____~~ The SSPR Download Request response shall return a Block ID and a Result
 8 Code of '09' if the Param Data of the SSPR Download Request Message is the Last
 9 Segment and the CRC does not check with the CRC calculated by the R-UIM.

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10 3.5.30.3 Test Purpose

11 Verify that the SSPR Download Request function conforms to the above requirements.

12 3.5.30.4 Method of Test

13 3.5.30.4.1 Initial Conditions

- 14 a) The R-UIM is connected to an ME Simulator.
 15 b) The protocol capability/validation/SSPR configuration request/response procedures
 16 been performed successfully. All the security related conditions are satisfied.

17 3.5.30.4.2 Procedure

- 18 a) The ME Simulator resets the R-UIM.
 19 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
 20 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
 21 d) The ME Simulator sends an OTAPA REQUEST command to the R-UIM to start the
 22 programming procedure.
 23 e) The ME Simulator sends an SSPR DOWNLOAD REQUEST command with Block ID='00'
 24 (Preferred Roaming List), Block Length='06', and Param Data='00 00 02 00 04'.
 25 *The status condition returned by the R-UIM shall be SW1='9F', SW2='05' – normal ending*
 26 *of the command.*
 27 f) The ME Simulator sends a GET RESPONSE command to the R-UIM.
 28 *The R-UIM shall return Block ID='00', Result Code='00' (Accepted – Operation successful),*
 29 *Segment Offset='00 00' and segment size = '02' [CR1].*
 30 g) The ME Simulator sends an SSPR DOWNLOAD REQUEST command with Block ID='00'
 31 (Preferred Roaming List), Block Length='06', and Param Data='01 00 02 02 xx xx' (xx xx
 32 should be the correct CRC for the segment data in step (g) "00 04").

33 *The status condition returned by the R-UIM shall be SW1='9F', SW2='05' – normal ending*
 34 *of the command.*

- 35 h) The ME Simulator sends a GET RESPONSE command to the R-UIM.

1 The R-UIM shall return Block ID='00', Result Code='00' (Accepted – Operation successful),
 2 Segment Offset='00 02' and segment size = '02' [CR1].

3 i) The ME Simulator sends an SSPR DOWNLOAD REQUEST command to the R-UIM with
 4 Block ID='FF' (Reserved Block ID), Block Length='05', and Parameter Data='00 00 00 01
 5 00'.

6 The status condition returned by the R-UIM shall be SW1='9F', SW2='05' – normal ending
 7 of the command.

8 j) The ME Simulator sends a GET RESPONSE command to the R-UIM.

9 The R-UIM shall return Block ID='FF' (Reserved Block ID) and Result Code='07' (Rejected -
 10 Block ID value not supported), ~~Segment Offset= '00 00' and Segment Size = '00'~~ [CR2].

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11 k) The ME Simulator sends an SSPR DOWNLOAD REQUEST command to the R-UIM with
 12 a Block ID='00' (Preferred Roaming List), Block Length='FF' (Block Length greater than
 13 the MAX PR LIST SIZE), and Param Data of the corresponding Block Length.

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14 The status condition returned by the R-UIM shall be SW1='9F', SW2='05' – normal ending
 15 of the command.

16 l) The ME Simulator sends a GET RESPONSE command to the R-UIM.

17 The R-UIM shall return Block ID='00', Result Code='02' (Rejected – Data Size Mismatch),
 18 Segment Offset and segment size [CR3].

19 m) The ME Simulator sends an SSPR DOWNLOAD REQUEST command with Block ID='00'
 20 (Preferred Roaming List), Block Length='06', and Param Data='01 FF FF 02 00 00'
 21 (Segment Offset + Segment Size is greater than maximum PRL size).

22 The status condition returned by the R-UIM shall be SW1='9F', SW2='05' – normal ending
 23 of the command.

24 n) The ME Simulator sends a GET RESPONSE command to the R-UIM.

25 The R-UIM shall return Block ID='00', Result Code='08' (Rejected – Preferred Roaming List
 26 Length mismatch), Segment Offset and segment size [CR4].

27 o) The ME Simulator sends an SSPR DOWNLOAD REQUEST command with Block ID='00'
 28 (Preferred Roaming List), Block Length='06', and Param Data='01 00 01 02 FF FF'.

29 The status condition returned by the R-UIM shall be SW1='9F', SW2='05' – normal ending
 30 of the command.

31 p) The ME Simulator sends a GET RESPONSE command to the R-UIM

32 The R-UIM shall return Block ID='00', Result Code='09' (Rejected – CRC error), Segment
 33 Offset and segment size [CR5].

34 q) The ME Simulator sends a SELECT command to the R-UIM to select EF_{NAMLOCK}.

35 r) The ME Simulator sends an UPDATE BINARY command to the R-UIM with '00' to start
 36 the user-initiated OTASP.

1 s) The ME Simulator sends an SSPR DOWNLOAD REQUEST command with Block ID='00'
 2 (Preferred Roaming List), Block Length='05', and Param Data='00 00 00 01 00'.

3 *The status condition returned by the R-UIM shall be SW1='9F', SW2='05' – normal ending*
 4 *of the command.*

5 t) The ME Simulator sends a GET RESPONSE command to the R-UIM.

6 *The R-UIM shall return Block ID='00', Result Code='00' (Accepted – Operation successful),*
 7 *Segment Offset='00 00' and segment size = '01' [CR1].*

8 3.5.31 OTAPA Request Function

9 3.5.31.1 Definition and Applicability

10 It shall be mandatory for all cards complying with [1] to support all functions described
 11 therein.

12 This command allows the network to initiate OTAPA by sending the Start_Stop parameters
 13 along with the 32 bit ME generated random number RANDSeed. The function shall compute
 14 AUTH_OTAPA. AUTH_OTAPA is set to the computed 18 bit result AUTH_SIGNATURE.

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15 3.5.31.2 Conformance Requirement

16 CR1 _____ The OTAPA Request response shall return a Result Code of '00' and NAM LOCK
 17 Indication of '00' if the START_STOP field received= '80' in the OTAPA Request
 18 command and NAM_LOCK_STATE = '0' in the R-UIM.

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19 CR2 _____ The OTAPA Request response shall return a Result Code of '00', NAM LOCK
 20 Indication of '01', and RAND OTAPA if the START_STOP field received= '80' in the
 21 OTAPA Request command and NAM_LOCK_STATE='1' in the R-UIM.

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22 CR3 _____ The OTAPA Request response shall return a Result Code of '00' and NAM LOCK
 23 Indication of '00' if the START_STOP field received='00' in the OTAPA Request
 24 command.

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25 CR4 _____ The OTAPA Request response shall return a Result Code of '06', NAM LOCK
 26 Indication of '0' if the programming session was initiated by the user as described in
 27 [13] sec 3.2.1.

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28 CR5 _____ The OTAPA Request response shall return a Result Code of '06', NAM LOCK
 29 Indication of '0' if the R-UIM does not support OTAPA, or if OTAPA was disabled by the
 30 user as described in [13] sec 3.2.2.

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31 3.5.31.3 Test Purpose

32 Verify that the OTAPA Request function conforms to the above requirements.

33 3.5.31.4 Method of Test

34 3.5.31.4.1 Initial Conditions

- 35 1) The R-UIM is connected to an ME Simulator.
 36 2) OTAPA_ENABLE must be enabled. (set EF_{OTAPA/SPC_Enable} bit1 to 0).

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- 1 3) EF_{NAMLOCK}=‘04’.
- 2 4) RANDSeed=a random 4 byte hexadecimal value.

3 3.5.31.4.2Procedure

- 4 a) The ME Simulator resets the R-UIM.
- 5 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 6 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

7 d) The ME Simulator sends an OTAPA REQUEST command to the R-UIM with ~~Start_Stop=~~
8 ‘80’ and RANDSeed.
9 *The status condition returned by the R-UIM shall be SW1=‘9F’, SW2=‘02’ – normal ending*
10 *of the command.*

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11 e) The ME Simulator sends a GET RESPONSE command to the R-UIM.
12 *The R-UIM shall return Result Code=‘00’ (Accepted – Operation successful) and*
13 *NAM LOCK, Indication=‘00’ [CR1].*

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- 14 f) The ME Simulator sends a SELECT command to the R-UIM to select EF_{NAMLOCK}.
- 15 g) The ME Simulator sends an Update Binary command to the R-UIM with ‘07’.

16 *The status condition returned by the R-UIM shall be SW1=‘90’, SW2=‘00’ – normal ending*
17 *of the command.*

18 h) The ME Simulator sends an OTAPA REQUEST command with ~~Start_Stop=~~ ‘80’ and
19 RANDSeed.
20 *The status condition returned by the R-UIM shall be SW1=‘9F’, SW2=‘06’ – normal ending*
21 *of the command.*

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22 i) The ME Simulator sends a GET RESPONSE command to the R-UIM.
23 *The R-UIM shall return Result Code=‘00’ (Accepted – Operation successful), NAM LOCK,*
24 *Indication=‘01’, and RAND OTAPA [CR2].*

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25 j) The ME Simulator sends an OTAPA REQUEST command with ~~Start_Stop=~~ ‘00’ and
26 RANDSeed.
27 *The status condition returned by the R-UIM shall be SW1=‘9F’, SW2=‘02’ – normal ending*
28 *of the command.*

Deleted: Start/Stop

29 k) The ME Simulator sends a GET RESPONSE command to the R-UIM.
30 *The R-UIM shall return Result Code=‘00’ (Accepted – Operation successful) NAM LOCK,*
31 *indicator=‘00’ [CR3].*

Deleted: NAM Lock

1 3.5.32 ~~Reserved~~

2 3.5.33 ~~Reserved~~

3 3.5.34 3GPD Configuration Request

4 3.5.34.1 Definition and Applicability

5 It shall be mandatory for all cards complying with [1].

6 This command requests 3GPD configuration details of a single block of data and forms a

7 subset of the “3GPD Configuration Request Message” as described in [13], section 4.5.1.15.

8 3.5.34.2 Conformance Requirement

9 CR1 ~~_____~~ This function shall conform to [7] Table 3.5.8-1 3GPD Parameter Block Types.

10 CR2 ~~_____~~ The 3GPD Configuration Request response shall return a Block ID and a Result

11 Code of ‘00’, a Block length, and associated Param Data if the operation is successful.

12 CR3 ~~_____~~ The 3GPD Configuration Request response shall return a Block ID and a Result

13 Code of ‘07’ if the parameter block received in the 3GPD Configuration Request

14 Command is not supported by the R-UIM.

15 CR4 ~~_____~~ The 3GPD Configuration Request response shall return SW1= ‘69’, SW2= ‘82’ if

16 the secure mode is not active.

17 3.5.34.3 Test Purpose

18 Verify that the 3GPD Configuration Request function conforms to the above requirement.

19 3.5.34.4 Method of Test

20 3.5.34.4.1 Initial Conditions

21 1) The R-UIM is connected to an ME Simulator.

22 2) The maximum Param Data response length for Block ID=‘00’ (Operation Mode

23 Parameter) is 1 byte.

24 3) The maximum Param Data response length for Block ID=‘01’ (SimpleIP User Profile

25 Parameter) is 10 bytes.

26 4) The maximum Param Data response length for Block ID=‘02’ (MobileIP User Profile

27 Parameter) is XX bytes.

28 5) The maximum Param Data response length for Block ID=‘06’ (SimpleIP Status

29 Parameter) is XX bytes.

30 6) The maximum Param Data response length for Block ID=‘07’ (MobileIP Status

31 Parameter) is XX bytes.

32 7) The maximum Param Data response length for Block ID=‘08’ (SimpleIP PAP SS

33 Parameter) is XX bytes.

Deleted: PUZL Configuration Request

Deleted: <#>Definition and Applicability¶
 <#>It shall be mandatory for all cards complying with [1].¶
 <#>This command is used to request PUZL configuration for a PUZL parameter block type, such as Preferred User Zone List Parameter Block. ¶
 <#>Note: These tests can be extended to cover the following parameter blocks: PUZL Dimension, PUZL Priorities, and User Zone.¶
 <#>Conformance Requirement¶
 <#>CR1 The PUZL Configuration Request response shall return a Block ID, a Result Code ‘00’, Block Length, and associated Parameter Block Data if the operation is successful.¶
 <#>CR2 The PUZL Configuration Request response shall return a Result Code of ‘11’ if the requested parameter block is valid but there is no entry in the current PUZL stored in the R-UIM.¶
 <#>CR3 The PUZL Configuration Request response shall return a Result Code of ‘07’ if the requested parameter block is not supported in the R-UIM.¶
 <#>CR4 The PUZL Download Request response shall return a Block ID and a Result Code ‘02’ if the parameter block received in the PUZL Download Request Command has a size different from that supported by the R-UIM.¶
 <#>CR5 The PUZL Configuration Request response for the User Zone Parameter Block (Block ID=‘02’), shall return a Result Code of ‘10’, “Rejected – Use... [7]

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 <#>It shall be mandatory for all cards complying with [1].¶
 <#>This command downloads PUZL parameter block data ... [8]

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- 1 8) The maximum Param Data response length for Block ID='09' (SimpleIP CHAP SS
2 Parameter) is XX bytes.
- 3 9) The maximum Param Data response length for Block ID='0A' (MobileIP SS Parameter) is
4 XX bytes.
- 5 10) EF_{SPC}='00 00 00' and EF_{NAMLOCK}='00'.
- 6 3.5.34.4.2 Procedure
- 7 a) The ME Simulator resets the R-UIM.
- 8 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 9 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 10 d) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
11 with Block ID='00' (3GPD Operation Mode Parameters).
- 12 *The status condition returned by the R-UIM shall be SW1='9F', SW2='04' – normal ending
13 of the command.*
- 14 e) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 15 *The R-UIM shall return the Block ID='00', Block Length='01', Result Code='00' (Accepted –
16 Operation successful) and Param Data='00' [CR2].*
- 17 f) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
18 with Block ID='01' (SimpleIP User Profile Parameters).
- 19 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending
20 of the command.*
- 21 g) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 22 *The R-UIM shall return the Block ID='01', Block Length='XX', Result Code='00' (Accepted –
23 Operation successful), and Param Data. [CR2].*
- 24 h) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
25 with Block ID='02' (MobileIP User Profile Parameters).
- 26 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending
27 of the command.*
- 28 i) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 29 *The R-UIM shall return the Block ID='02', Block Length='XX', Result Code='00' (Accepted –
30 Operation successful), and Param Data. [CR2].*
- 31 j) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
32 with Block ID='06' (SimpleIP Status Parameters).
- 33 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending
34 of the command.*
- 35 k) The ME Simulator sends a GET RESPONSE command to the R-UIM.

1 The R-UIM shall return the Block ID='06', Block Length='XX', Result Code='00' (Accepted –
2 Operation successful) and Param Data. [CR2].

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3 l) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
4 with Block ID='07' (MobileIP Status Parameters).

5 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending
6 of the command.*

7 m) The ME Simulator sends a GET RESPONSE command to the R-UIM.

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8 *The R-UIM shall return the Block ID='07, Block Length='XX, Result Code='00' (Accepted –
9 Operation successful) and Param Data. [CR1].*

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10 n) The ME Simulator resets the R-UIM.

11 o) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
12 with Block ID='08' (SimpleIP PAP SS Parameter).

13 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending
14 of the command.*

15 p) The ME Simulator sends a GET RESPONSE command to the R-UIM.

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16 *The R-UIM shall return the Block ID='08', Block Length='XX', Result Code='00' (Accepted –
17 Operation successful) and Param Data [CR1].*

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18 q) The ME Simulator resets the R-UIM.

19 r) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
20 with Block ID='FF' (Reserved Block ID).

21 *The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending
22 of the command.*

23 s) The ME Simulator sends a GET RESPONSE command to the R-UIM.

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24 *The R-UIM shall return the Block ID='FF', Block Length='00', Result Code='07' (Rejected–
25 Block ID not supported by R-UIM) and Param Data. [CR3].*

26 t) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
27 with Block ID='09' (SimpleIP CHAP SS Parameter).

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28 *The R-UIM shall return the correct status words [CR4].*

29 u) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
30 with Block ID='0A' (MobileIP SS Parameter).

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31 *The R-UIM shall return the correct status words [CR4].*

32 x) The ME Simulator sends a SECURE MODE command to the R-UIM with RAND_SM and
33 P1='00'.

34 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending
35 of the command.*

36 y) The ME Simulator sends a GET RESPONSE command to the R-UIM.

- 1 The R-UIM shall return Result Code='00' (Accepted – Operation successful).
- 2 z) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
- 3 with Block ID='09' (SimpleIP CHAP SS Parameter).
- 4 The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending
- 5 of the command.
- 6 aa) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 7 The R-UIM shall return the Block ID='09', Block Length='XX', Result Code='00' (Accepted –
- 8 Operation successful) and Param Data [CR1].
- 9 bb) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
- 10 with Block ID='0A' (MobileIP SS Parameter).
- 11 The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending
- 12 of the command.
- 13 cc) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 14 The R-UIM shall return the Block ID='0A', Block Length='XX', Result Code='00' (Accepted –
- 15 Operation successful), and Param Data [CR1].
- 16 dd) The ME Simulator sends a Secure Mode command to the R-UIM with P1='01'.
- 17 The R-UIM shall return Result Code='00' (Accepted – Operation successful).
- 18 ee) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
- 19 with Block ID='09' (SimpleIP CHAP SS Parameter).
- 20 The R-UIM shall return the correct status words [CR4].
- 21 ff) The ME Simulator sends a 3GPD CONFIGURATION REQUEST command to the R-UIM
- 22 with Block ID='0A' (MobileIP SS Parameter).
- 23 The R-UIM shall return the correct status words [CR4].

3.5.35 3GPD Download Request

3.5.35.1 Definition and Applicability

It shall be mandatory for all cards complying with [1].

This command requests the 3GPD Download of a single block of data and forms a subset of the 3GPD Download Request Message as described in [13], section 4.5.1.15.

3.5.35.2 Conformance Requirement

CR1 The 3GPD Download Request response shall return a Block ID and a Result Code of '00'.

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CR2 The 3GPD Download Request response shall return a Block ID and a Result Code of '07' if the parameter block received in the 3GPD Download Request Command is not supported by the R-UIM.

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1 CR3 _____ The 3GPD Download Request response shall return a Block ID and a Result
 2 Code of '02' if the parameter block received in the 3GPD-Download Request is due to a Data
 3 Size mismatch.

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4 ~~CR4~~ _____ The 3GPD Download Request response shall return a Block ID and a Result
 5 Code of '04' if the parameter block received in the 3GPD Download Request Command is
 6 due to invalid parameter.

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7 3.5.35.3 Test Purpose

8 Verify that the 3GPD Download Request function conforms to the above requirement.

9 3.5.35.4 Method of Test

10 3.5.35.4.1 Initial Conditions

11 1) The R-UIM is connected to an ME Simulator.

12 3.5.35.4.2 Procedure

13 a) The ME Simulator resets the R-UIM.

14 ~~b) The ME Simulator sends a VERIFY CHV command to the R-UIM~~

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15 ~~c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}~~

16 ~~d) The ME Simulator sends a 3GPD Download Request command to the R-UIM with valid
 17 Block ID, Block length='XX', and Param Data.~~

18 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending
 19 of the command.*

20 ~~e) The ME Simulator sends a GET RESPONSE command to the R-UIM.~~

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21 *The R-UIM shall return the valid Block ID and Result Code='00 (Accepted – Operation
 22 successful) [CR1].*

23 ~~f) The ME Simulator resets the R-UIM.~~

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24 ~~g) The ME Simulator sends a 3GPD Download Request command to the R-UIM with
 25 reserved Block ID, Block length='XX', and Param Data.~~

26 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending
 27 of the command.*

28 ~~h) The ME Simulator sends a GET RESPONSE command to the R-UIM.~~

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29 *The R-UIM shall return the reserved Block ID and Result Code='07 (Rejected – Block ID not
 30 supported by R-UIM). [CR2].*

31 ~~i) The ME Simulator resets the R-UIM.~~

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32 ~~j) The ME Simulator sends a 3GPD Download Request command to the R-UIM with valid
 33 Block ID, Block length greater than the recommended value, and Param Data.~~

34 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending
 35 of the command.*

1 **k)** The ME Simulator sends a GET RESPONSE command to the R-UIM.
2 *The R-UIM shall return the valid Block ID and Result Code='02' (Rejected -Data Size*
3 *Mismatch) [CR3].*

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4 **l)** The ME Simulator resets the R-UIM.

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5 **m)** The ME Simulator sends a 3GPD Download Request command to the R-UIM with valid
6 Block ID, Block length='XX' and Invalid Param Data.

7 *The status condition returned by the R-UIM shall be SW1='9F', SW2='02' - normal ending*
8 *of the command.*

9 **n)** The ME Simulator sends a GET RESPONSE command to the R-UIM.

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10 *The R-UIM shall return the valid Block ID and Result Code='04 (Rejected -Invalid*
11 *Parameter) [CR4].*

12 3.5.36 Secure Mode

13 3.5.36.1 Definition and Applicability

14 It shall be mandatory for all cards complying with [1].

15 This command generates a Security Mode Cipherring Key.

16 3.5.36.2 Conformance Requirement

17 **CR1** The Secure Mode response shall return a Result Code of '00' if the operation is
18 successful.

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19 **CR2** The Secure Mode response shall return a 1-byte Result Code '0A' if either
20 SP_LOCK_STATE or NAM_LOCK_STATE or both are set to '1' in the R-UIM.

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21 3.5.36.3 Test Purpose

22 Verify that the Secure Mode function conforms to the above requirement.

23 3.5.36.4 Method of Test

24 3.5.36.4.1 Initial Conditions

- 25 1) The R-UIM is connected to an ME Simulator.
- 26 2) The protocol capability request/response procedures have been performed successfully.
- 27 All the security related conditions are satisfied.
- 28 3) RAND_SM=random 8-byte hexadecimal value.
- 29 4) EF_{SPC}='00 00 00' for Procedure 1 and EF_{SPC}='FF FF FF' for Procedure 2.

30 3.5.36.4.2 Procedure

31 3.5.36.4.2.1 Procedure 1

- 32 a) The ME Simulator resets the R-UIM.
- 33 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 34 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

- 1 d) The ME Simulator sends a SELECT command to the R-UIM to select EF_{NAMLOCK}.
- 2 e) The ME Simulator sends an UPDATE BINARY Command to the R-UIM with '00'.
- 3 f) The ME Simulator sends a SECURE MODE command to the R-UIM with RAND_SM and
4 P1='00'.
- 5 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending*
6 *of the command.*
- 7 g) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 8 *The R-UIM shall return Result Code='00' (Accepted – Operation successful) [CR1].*
- 9 h) The ME Simulator sends a Secure Mode command to the R-UIM with P1='01'.
- 10 *The R-UIM shall return Result Code='00' (Accepted – Operation successful) [CR1].*
- 11 i) The ME Simulator sends a SELECT command to the R-UIM to select EF_{NAMLOCK}.
- 12 j) The ME Simulator sends an UPDATE BINARY Command to the R-UIM with '01'.
- 13 k) The ME Simulator sends a SECURE MODE command to the R-UIM with RAND_SM and
14 P1 value='00'.
- 15 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending*
16 *of the command.*
- 17 l) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 18 *The R-UIM shall return Result Code='0A' (Rejected – Mobile station locked) [CR2].*

19 3.5.36.4.2.2 Procedure 2

- 20 a) The ME Simulator resets the R-UIM.
- 21 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- 22 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- 23 d) The ME Simulator sends a SELECT command to the R-UIM to select EF_{NAMLOCK}.
- 24 e) The ME Simulator sends an UPDATE BINARY Command to the R-UIM with '00'.
- 25 f) The ME Simulator sends a SECURE MODE command to the R-UIM with RAND_SM and
26 P1 value='00'.
- 27 *The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending*
28 *of the command.*
- 29 g) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 30 *The R-UIM shall return Result Code='0A' (Rejected – Mobile station locked) [CR2].*
- 31 h) The ME Simulator sends a SELECT command to the R-UIM to select EF_{NAMLOCK}.
- 32 i) The ME Simulator sends an UPDATE BINARY Command to the R-UIM with '01'.
- 33 j) The ME Simulator sends a SECURE MODE command to the R-UIM with RAND_SM and
34 P1 value='00'.

1 The status condition returned by the R-UIM shall be SW1='9F', SW2='01' – normal ending
2 of the command.

3 k) The ME Simulator sends a GET RESPONSE command to the R-UIM.

4 The R-UIM shall return Result Code='0A' (Rejected – Mobile station locked) [CR2].

5 3.5.37 Fresh

6 3.5.37.1 Definition and Applicability

7 It shall be mandatory for all cards complying with [1].

8 This command is used to pass a crypto-sync between the ME and R-UIM.

9 3.5.37.2 Conformance Requirement

10 CR1 The Fresh response shall return SW1='90' and SW2='00'.

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11 CR2 The Fresh response shall return a Crypto-Sync.

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12 3.5.37.3 Test Purpose

13 Verify that the Fresh function conforms to the above requirement.

14 3.5.37.4 Method of Test

15 3.5.37.4.1 Initial Conditions

- 16 1) The R-UIM is connected to an ME Simulator.
- 17 2) The protocol capability request/response procedures been performed successfully. All
- 18 the security related conditions are satisfied.
- 19 3) Security Mode Command/Response has been performed.
- 20 4) Crypto Sync=a random 2 byte hexadecimal value.

21 3.5.37.4.2 Procedure

22 a) The ME Simulator sends a Fresh command to the R-UIM with Crypto-Sync and P1='00'.

23 The status condition returned by the R-UIM shall be SW1='90', SW2='00' – normal ending
24 of the command [CR1].

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25 b) The ME Simulator sends a Fresh command to the R-UIM with P1='01'.

26 The R-UIM shall return the Crypto Sync in the Fresh response [CR2].

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27 3.5.38 Compute IP Authentication - CHAP

28 3.5.38.1 Definition and Applicability

29 It shall be mandatory for all cards complying with [1].

30 This command is used to generate the CHAP response for authentication in Simple IP.

31 3.5.38.2 Conformance Requirement

32 CR1 The Compute IP Authentication – CHAP shall return the correct CHAP response.

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1 3.5.38.3 Test Purpose

2 Verify that the Compute IP Authentication – CHAP function conforms to the above
3 requirement.

4 3.5.38.4 Method of Test

5 3.5.38.4.1 Initial Conditions

- 6 1) The R-UIM is connected to an ME Simulator.
7 2) P1='00' (CHAP), CHAP_ID = 1 byte value provided by the ME simulator, NAI-Entry-index
8 = 1 byte value provided by ME simulator, CHAP-Challenge = 32 byte random value.
9 NOTE: The NAI-Entry-Index is 4-bit parameter which should be right justified according
10 to [1] and [13].

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11 3.5.38.4.2 Procedure

- 12 a) The ME Simulator resets the R-UIM.
13 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
14 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
15 d) The ME Simulator sends a Compute IP Authentication command with P1=CHAP_ID,
16 NAI-Entry-Index, and CHAP-Challenge.
17 *The status condition returned by the R-UIM shall be SW1='9F', SW2='10' – normal ending*
18 *of the command.*
19 e) The ME Simulator sends a GET REPOSE command to the R-UIM.
20 *The R-UIM shall return the correct CHAP Response based on the input data parameters*
21 *[CR1].*

22 3.5.39 Compute IP Authentication – MN-HA Authenticator

23 3.5.39.1 Definition and Applicability

24 It shall be mandatory for all cards complying with [1].

25 This command is used to generate the MN-HA Authenticator response for authentication in
26 Mobile IP.

27 3.5.39.2 Conformance Requirement

28 CR1 _____ The Compute IP Authentication – MN-HA shall return the correct MN-HA
29 Authenticator response for single Registration-Data block.

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30 CR2 _____ The Compute IP Authentication – MN-HA shall return the correct MN-HA
31 Authenticator response for multiple Registration-Data blocks

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32 CR3 _____ If the blocks used with the command are run out of sequence, the R-UIM shall
33 return SW1='98 and SW2='34'.

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34 CR4 _____ The Compute IP Authentication – MN-HA shall return the correct MN-HA
35 Authenticator response for single Registration-Data block immediately after previous
36 execution of Compute IP Authentication command with P1=MN-HA Authenticator.

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3.5.39.3 Test Purpose

Verify that the Compute IP Authentication – MN-HA Authenticator function conforms to the above requirements.

3.5.39.4 Method of Test

3.5.39.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.
- 2) P1='01' (MN-HA Authenticator), NAI-Entry-index = 1 byte value provided by ME simulator, Registration-Data = variable length registration data. **NOTE:** The NAI-Entry-Index is 4-bit parameter which should be right justified according to [1] and [13].

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3.5.39.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- d) The ME Simulator sends a Compute IP Authentication command with P1=MN-HA Authenticator, P2='02' (Single Block), NAI-Entry-Index, and Registration-Data.
The status condition returned by the R-UIM shall be SW1='9F', SW2='10' – normal ending of the command.
- e) The ME Simulator sends a GET REPOSE command to the R-UIM.
The R-UIM shall return the correct MN-HA Authenticator response based on the input data parameters [CR1].
- f) The ME Simulator sends a Compute IP Authentication command with P1=MN-HA Authenticator, P2='02' (Single Block), NAI-Entry-Index, and Registration-Data.
The status condition returned by the R-UIM shall be SW1='9F', SW2='10' – normal ending of the command.
- g) The ME Simulator sends a GET REPOSE command to the R-UIM.
The R-UIM shall return the correct MN-HA Authenticator response based on the input data parameters [CR4].
- h) The ME Simulator resets the R-UIM.
- i) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- j) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
- k) The ME Simulator sends a Compute IP Authentication command with P1=MN-HA Authenticator, P2='00' (First Block), NAI-Entry-Index, and Registration-Data (First Block).

1 The status condition returned by the R-UIM shall be SW1='90', SW2='00' – normal ending
2 of the command.

- 3 l) The ME Simulator sends a Compute IP Authentication command with P1=MN-HA
4 Authenticator, P2='01' (Next Block), and Registration-Data (Second Block).

5 The status condition returned by the R-UIM shall be SW1='90', SW2='00' – normal ending
6 of the command.

- 7 m) The ME Simulator sends a Compute IP Authentication command with P1=MN-HA
8 Authenticator, P2='03' (Last Block), and Registration-Data (Last Block).

9 The status condition returned by the R-UIM shall be SW1='9F', SW2='10' – normal ending
10 of the command.

- 11 n) The ME Simulator sends a GET REPOSE command to the R-UIM.

12 The R-UIM shall return the correct MN-HA Authenticator response based on the input data
13 parameters [CR2].

- 14 o) The ME Simulator resets the R-UIM.

- 15 p) The ME Simulator sends a VERIFY CHV command to the R-UIM.

- 16 q) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

- 17 r) The ME Simulator sends a Compute IP Authentication command with P1=MN-HA
18 Authenticator, P2='03' (Last Block), and Registration-Data Block.

19 The status condition returned by the R-UIM shall be SW1='98', SW2='34' – out of sequence
20 error [CR3].

21 3.5.40 Compute IP Authentication – MIP-RRQ Hash

22 3.5.40.1 Definition and Applicability

23 It shall be mandatory for all cards complying with [1].

24 This command is used to generate the MIP-RRQ Hash response for authentication in Mobile IP.

25 3.5.40.2 Conformance Requirement

26 CR1 _____ The Compute IP Authentication – MIP-RRQ Hash shall calculate the MIP-RRQ
27 Hash result for a single Preceding MIP-RRQ Data block and temporarily store this value in
28 the R-UIM for use later during calculation of the authentication response.

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29 CR2 _____ The Compute IP Authentication – MIP-RRQ Hash shall calculate the MIP-RRQ
30 Hash result for multiple Preceding MIP-RRQ Data blocks and temporarily store this value in
31 the R-UIM for later authentication response calculation.

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32 CR3 _____ If the blocks used with the command are run out of sequence, the R-UIM shall
33 return SW1='98' and SW2='34'.

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34 CR4 _____ If the command is run out of sequence, the R-UIM shall return SW1='98 and
35 SW2='34'. **NOTE:** If either MIP-RRQ Hash or MN-AAA Authenticator are run out of
36 sequence, the R-UIM shall return SW1='98 and SW2='34'. CR3 is for block sequence error.

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1 3.5.40.3 Test Purpose

2 Verify that the Compute IP Authentication – MIP-RRQ Hash conforms to the above
3 requirements.

4 3.5.40.4 Method of Test

5 3.5.40.4.1 Initial Conditions

- 6 1) The R-UIM is connected to an ME Simulator.
7 2) P1='02' (MIP-RRQ Hash), Preceding MIP-RRQ Data = variable length MIP-RRQ Data
8 provided the ME Simulator, MN-AAA Extension Header = 8 byte extension data.

9 3.5.40.4.2 Procedure

- 10 a) The ME Simulator resets the R-UIM.
11 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
12 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
13 d) The ME Simulator sends a Compute IP Authentication command with P1=MN_HA
14 Authentication, P2='02' (Single Block) to the R-UIM
15 e) The ME Simulator sends a Compute IP Authentication command with P1=MIP-RRQ
16 Hash, P2='02' (Single Block), Preceding MIP-RRQ Data, and MN-AAA Extension Header.
17 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' – normal ending*
18 *of the command [CR1].*
19 f) The ME Simulator resets the R-UIM.
20 g) The ME Simulator sends a VERIFY CHV command to the R-UIM.
21 h) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
22 i) The ME Simulator sends a Compute IP Authentication command with P1=MN_HA
23 Authentication, P2='00' (First Block) to the R-UIM
24 j) The ME Simulator sends a Compute IP Authentication command with P1=MN_HA
25 Authentication, P2='01' (Next Block) to the R-UIM
26 k) The ME Simulator sends a Compute IP Authentication command with P1=MN_HA
27 Authentication, P2='03' (Last Block) to the R-UIM
28 l) The ME Simulator sends a Compute IP Authentication command with P1=MIP-RRQ
29 Hash, P2='00' (First Block) and Preceding MIP-RRQ Data Block1.

30 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' – normal ending*
31 *of the command].*

- 32 m) The ME Simulator sends a Compute IP Authentication command with P1=MIP-RRQ
33 Hash, P2='01' (Next Block) and Preceding MIP-RRQ Data Block2.

34 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' – normal ending*
35 *of the command.*

1 n) The ME Simulator sends a Compute IP Authentication command with P1=MIP-RRQ
2 Hash, P2='03' (Last Block), Preceding MIP-RRQ Data Block3, and MN-AAA Extension
3 Header.

4 *The status condition returned by the R-UIM shall be SW1='90', SW2='00' – normal ending*
5 *of the command [CR1].*

6 o) The ME Simulator resets the R-UIM.

7 p) The ME Simulator sends a VERIFY CHV command to the R-UIM.

8 q) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

9 r) The ME Simulator sends a Compute IP Authentication command with P1=MN_HA
10 Authentication, P2='02' (Single Block) to the R-UIM

11 s) The ME Simulator sends a Compute IP Authentication command with P1=MIP-RRQ
12 Hash, P2='03' (Last Block), Preceding MIP-RRQ Data Block, and MN-AAA Extension
13 Header.

14 *The status condition returned by the R-UIM shall be SW1='98', SW2='34' – out of sequence*
15 *error [CR3].*

16 t) The ME Simulator resets the R-UIM.

17 u) The ME Simulator sends a VERIFY CHV command to the R-UIM.

18 v) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

19 w) The ME Simulator sends a Compute IP Authentication command with P1=MIP-RRQ
20 Hash, P2='02' (Single Block), Preceding MIP-RRQ Data Block, and MN-AAA Extension
21 Header without sending a Compute IP Authentication – MN-HA Authenticator.

22 *The status condition returned by the R-UIM shall be SW1='98', SW2='34' – out of sequence*
23 *error. [CR4]*

24 3.5.41 Compute IP Authentication – MN-AAA Authenticator

25 3.5.41.1 Definition and Applicability

26 It shall be mandatory for all cards complying with [1].

27 This command is used to generate the MN-AAA Authenticator response for authentication in
28 Mobile IP.

29 3.5.41.2 Conformance Requirement

30 CR1 _____ The Compute IP Authentication – MN-AAA Authenticator shall return the correct
31 MN-AAA Authenticator response based on the previous MIP-RRQ Hash result.

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32 CR2 _____ If the command is run out of sequence, the R-UIM shall return SW1='98 and
33 SW2='34'. **NOTE:** If either MIP-RRQ Hash or MN-AAA Authenticator are run out of
34 sequence, the R-UIM shall return SW1='98 and SW2='34'.

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1 3.5.41.3 Test Purpose

2 Verify that the Compute IP Authentication – MN-AAA Authenticator conforms to the above
3 requirements.

4 3.5.41.4 Method of Test

5 3.5.41.4.1 Initial Conditions

- 6 1) The R-UIM is connected to an ME Simulator.
7 2) P1='03' (MN-AAA Authenticator), NAI-Entry-Index = 1 byte provided by ME Simulator,
8 Challenge = variable length challenge data from the ME Simulator (Challenge length
9 shall be <= 238 bytes).

10 3.5.41.4.2 Procedure

- 11 a) The ME Simulator resets the R-UIM.
12 b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
13 c) The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.
14 d) The ME Simulator sends a Compute IP Authentication command with P1=MN-AAA
15 Authenticator, NAI-Entry-Index, and Challenge.

16 *The status condition returned by the R-UIM shall be SW1='9F', SW2='10' – normal ending
17 of the command.*

- 18 e) The ME Simulator sends a GET REPOSE command to the R-UIM.

19 *The R-UIM shall return the correct MN-AAA Authenticator response based on the input data
20 parameters [CR1].*

- 21 f) The ME Simulator sends a Compute IP Authentication command with P1=MN-AAA
22 Authenticator, NAI-Entry-Index, and Challenge without sending a Compute IP
23 Authentication – MIP-RRQ.

24 *The status condition returned by the R-UIM shall be SW1='98', SW2='34' – out of
25 sequence error. [CR2]*

26 3.6 Description of the Commands

27 The tests in this section ensure that the IUT conforms to the specification for the mapping of
28 functions onto Application Protocol Data Units (APDUs) which are used by the transmission
29 protocol.

30 3.6.1 Mapping Principles

31 The R-UIM shall conform to the requirements specified in Section 6.6.1 of [10] with the
32 following exceptions:

- 33 • Section 6.6.2.16, "RUN GSM ALGORITHM command" of [10] is not applicable.
34 • Section 6.6.2.17, "SLEEP command" of [10] is not applicable.

1 3.6.1.1 Definition and Applicability

2 The transmission protocol requires that the command and response Application Protocol Data
3 Units (APDUs) are mapped using certain principles, in order to ensure correct operation in the
4 CDMA environment.

5 3.6.1.2 Conformance Requirement

6 CR1 The command APDU shall have format (CLA, INS, P1, P2, P3, {data}).

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7 CR2 The response APDU shall have format ({data}, SW1, SW2).

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8 CR3 The class 'A0' shall be accepted by the R-UIM.

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9 3.6.1.3 Test Purpose

10 Verify that the R-UIM conforms to the above requirements.

11 3.6.1.4 Method of Test

12 3.6.1.4.1 Initial Conditions

13 1) The R-UIM is connected to an ME Simulator.

14 3.6.1.4.2 Procedure

15 a) The ME Simulator resets the R-UIM.

16 b) The ME Simulator gains the security access condition(s) specified by the administrative
17 authority for both INVALIDATE and REHABILITATE on EF_{TMSI}.

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18 c) The ME Simulator sends SELECT commands to the R-UIM to select DF_{CDMA}.

19 d) The ME Simulator sends a VERIFY CHV command to the R-UIM.

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20 e) The ME Simulator sends a SELECT command to the R-UIM to select EF_{CDMA}.

21 [Bytes sent: CLA='A0', INS='A4', P1='00', P2='00', P3='02', data='6F 7E']

22 [Bytes received: SW1, SW2₁]

23 *The R-UIM shall have sent SW1='9F' and SW2='lgth' [CR1].*

24 f) The ME Simulator sends a GET RESPONSE command to the R-UIM, requesting all of
25 the available response data, as indicated by SW2₁.

26 [Bytes sent: CLA='A0', INS='C0', P1='00', P2='00', P3=SW2₁]

27 [Bytes received: data, SW1, SW2]

28 *The R-UIM shall have sent 'lgth' bytes followed by SW1='90' and SW2='00' [CR2].*

29 g) The ME Simulator sends a READ BINARY command to the R-UIM to read both bytes.

30 [Bytes sent: CLA='A0', INS='B0', P1='00', P2='00', P3='02']

31 [Bytes received: data, SW1, SW2]

32 *The R-UIM shall have sent 2 bytes followed by SW1='90' and SW2='00'.*

33 h) The ME Simulator sends an INVALIDATE command to the R-UIM.

1 [Bytes sent: CLA='A0', INS='04', P1='00', P2='00', P3='00']

2 [Bytes received: SW1, SW2]

3 *The R-UIM shall have sent SW1='90' and SW2='00'.*

4 i) The ME Simulator sends a REHABILITATE command to the R-UIM.

5 3.6.2 Coding of the Commands

6 The test procedures defined in section 3.5, "Descriptions of the functions", intrinsically test
7 most the coding of the associated commands. Therefore, test purposes exist in this section only
8 to cover areas of testing not already covered by section 3.5.

9 3.6.2.1 SELECT Command

10 The test procedure defined in section 3.5.1, "SELECT function" intrinsically tests the coding of
11 this command and so is not replicated here.

12 3.6.2.2 STATUS Command

13 The test procedure defined in section 3.5.2, "STATUS function" intrinsically tests the coding of
14 this command and so is not replicated here.

15 3.6.2.3 READ BINARY Command

16 The test procedure defined in section 3.5.3, "READ BINARY function" intrinsically tests the
17 coding of this command and so is not replicated here.

18 3.6.2.4 UPDATE BINARY Command

19 The test procedure defined in section 3.5.4, "UPDATE BINARY function" intrinsically tests the
20 coding of this command and so is not replicated here.

21 3.6.2.5 READ RECORD Command

22 The test procedure defined in section 3.5.5, "READ RECORD function" intrinsically tests the
23 coding of this command and so is not replicated here.

24 3.6.2.6 UPDATE RECORD Command

25 The test procedure defined in section 3.5.6, "UPDATE RECORD function" intrinsically tests the
26 coding of this command and so is not replicated here.

27 3.6.2.7 SEEK Command

28 The test procedure defined in section 3.5.7, "SEEK function" intrinsically tests the coding of
29 this command and so is not replicated here.

30 3.6.2.8 INCREASE Command

31 The test procedure defined in section 3.5.8, INCREASE function intrinsically tests the coding
32 of this command and so is not replicated here.

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33 3.6.2.9 VERIFY CHV Command

34 The test procedure defined in section 3.5.9, "VERIFY CHV function" intrinsically tests the
35 coding of this command and so is not replicated here.

- 1 3.6.2.10 CHANGE CHV Command
- 2 The test procedure defined in section 3.5.10, "CHANGE CHV function" intrinsically tests the
- 3 coding of this command and so is not replicated here.
- 4 3.6.2.11 DISABLE CHV Command
- 5 The test procedure defined in section 3.5.11, "DISABLE CHV function" intrinsically tests the
- 6 coding of this command and so is not replicated here.
- 7 3.6.2.12 ENABLE CHV Command
- 8 The test procedure defined in section 3.5.12, "ENABLE CHV function" intrinsically tests the
- 9 coding of this command and so is not replicated here.
- 10 3.6.2.13 UNBLOCK CHV Command
- 11 The test procedure defined in section 3.5.13, "UNBLOCK CHV function" intrinsically tests the
- 12 coding of this command and so is not replicated here.
- 13 3.6.2.14 INVALIDATE Command
- 14 The test procedure defined in section 3.5.14, "INVALIDATE function" intrinsically tests the
- 15 coding of this command and so is not replicated here.
- 16 3.6.2.15 REHABILITATE Command
- 17 The test procedure defined in section 3.5.15, "REHABILITATE function" intrinsically tests the
- 18 coding of this command and so is not replicated here.
- 19 3.6.2.16 SLEEP Command
- 20 The test procedure defined in section 3.5.16, "SLEEP function" intrinsically tests the coding of
- 21 this command and so is not replicated here.
- 22 3.6.2.17 STORE ESN_ME Command
- 23 The test procedure defined in section 3.5.17, "STORE ESN_ME function" intrinsically tests the
- 24 coding of this command and so is not replicated here.
- 25 3.6.2.18 BASE STATION CHALLENGE Command
- 26 The test procedure defined in section 3.5.18, "BASE STATION CHALLENGE function"
- 27 intrinsically tests the coding of this command and so is not replicated here.
- 28 3.6.2.19 UPDATE SSD Command
- 29 The test procedure defined in section 3.5.19, "UPDATE SSD function" intrinsically tests the
- 30 coding of this command and so is not replicated here.
- 31 3.6.2.20 CONFIRM SSD Command
- 32 The test procedure defined in section 3.5.20, "CONFIRM SSD function" intrinsically tests the
- 33 coding of this command and so is not replicated here.

- 1 3.6.2.21 RUN CAVE Command
- 2 The test procedure defined in section 3.5.21, "RUN CAVE function" intrinsically tests the
- 3 coding of this command and so is not replicated here.
- 4 3.6.2.22 GENERATE KEY/VPM Command
- 5 The test procedure defined in section 3.5.22, "GENERATE KEY/VPM function" intrinsically
- 6 tests the coding of this command and so is not replicated here.
- 7 3.6.2.23 MS KEY REQUEST Command
- 8 The test procedure defined in section 3.5.23, "MS KEY REQUEST function" intrinsically tests
- 9 the coding of this command and so is not replicated here.
- 10 3.6.2.24 KEY GENERATION REQUEST Command
- 11 The test procedure defined in section 3.5.24, "KEY GENERATION REQUEST function"
- 12 intrinsically tests the coding of this command and so is not replicated here.
- 13 3.6.2.25 COMMIT Command
- 14 The test procedure defined in section 3.5.25, "COMMIT function" intrinsically tests the coding
- 15 of this command and so is not replicated here.
- 16 3.6.2.26 VALIDATE Command
- 17 The test procedure defined in section 3.5.26, "VALIDATE function" intrinsically tests the coding
- 18 of this command and so is not replicated here.
- 19 3.6.2.27 CONFIGURATION REQUEST Command
- 20 The test procedure defined in section 3.5.27, "CONFIGURATION REQUEST function"
- 21 intrinsically tests the coding of this command and so is not replicated here.
- 22 3.6.2.28 DOWNLOAD REQUEST Command
- 23 The test procedure defined in section 3.5.28, "DOWNLOAD REQUEST function" intrinsically
- 24 tests the coding of this command and so is not replicated here.
- 25 3.6.2.29 SSPR CONFIGURATION REQUEST Command
- 26 The test procedure defined in section 3.5.29, "SSPR CONFIGURATION REQUEST function"
- 27 intrinsically tests the coding of this command and so is not replicated here.
- 28 3.6.2.30 SSPR DOWNLOAD REQUEST Command
- 29 The test procedure defined in section 3.5.30, "SSPR DOWNLOAD REQUEST function"
- 30 intrinsically tests the coding of this command and so is not replicated here.
- 31 3.6.2.31 OTAPA REQUEST Command
- 32 The test procedure defined in section 3.5.31, "OTAPA REQUEST function" intrinsically tests the
- 33 coding of this command and so is not replicated here.

- 1 3.6.2.32 PUZL CONFIGURATION REQUEST Command
- 2 The test procedure defined in section 3.5.32, "PUZL CONFIGURATION REQUEST function"
- 3 intrinsically tests the coding of this command and so is not replicated here.
- 4 3.6.2.33 PUZL DOWNLOAD REQUEST Command
- 5 The test procedure defined in section 3.5.33, "PUZL DOWNLOAD REQUEST function"
- 6 intrinsically tests the coding of this command and so is not replicated here.
- 7 3.6.2.34 3GPD CONFIGURATION REQUEST Command
- 8 The test procedure defined in section 3.5.34, "3GPD CONFIGURATION REQUEST function"
- 9 intrinsically tests the coding of this command and so is not replicated here.
- 10 3.6.2.35 3GPD DOWNLOAD REQUEST Command
- 11 The test procedure defined in section 3.5.35, "3GPD DOWNLOAD REQUEST function"
- 12 intrinsically tests the coding of this command and so is not replicated here.
- 13 3.6.2.36 SECURE Command
- 14 The test procedure defined in section 3.5.36, "SECURE function" intrinsically tests the coding
- 15 of this command and so is not replicated here.
- 16 3.6.2.37 FRESH Command
- 17 The test procedure defined in section 3.5.37, "FRESH function" intrinsically tests the coding of
- 18 this command and so is not replicated here.
- 19 3.6.2.38 Compute IP Authentication – Chap
- 20 The test procedure defined in section 3.5.38, "Compute IP Authentication - Chap" intrinsically
- 21 tests the coding of this command and so is not replicated here.
- 22 3.6.2.39 Compute IP Authentication – MN-HA Authenticator
- 23 The test procedure defined in section 3.5.39, "Compute IP Authentication - MN-HA
- 24 Authenticator" intrinsically tests the coding of this command and so is not replicated here.
- 25 3.6.2.40 Compute IP Authentication – MIP-RRQ Hash
- 26 The test procedure defined in section 3.5.40, "Compute IP Authentication – MIP-RRQ Hash"
- 27 intrinsically tests the coding of this command and so is not replicated here.
- 28 3.6.2.41 Compute IP Authentication – MN-AAA Authenticator
- 29 The test procedure defined in section 3.5.41, "Compute IP Authentication – MN-AAA
- 30 Authenticator" intrinsically tests the coding of this command and so is not replicated here.
- 31 3.6.2.42 GET RESPONSE Command
- 32 3.6.2.42.1 Definition and Applicability
- 33 It shall be mandatory for all cards complying with [1] to support all functions described
- 34 therein.

3.6.2.42.2 Conformance Requirement

CR1 The GET RESPONSE command shall provide response data after the execution of commands RUN CAVE ALGORITHM, SEEK (type 2), SELECT, INCREASE, STORE ESN_ME, BASE STATION CHALLENGE, RUN CAVE, GENERATE KEY/VPM, MS KEY REQUEST, KEY GENERATION REQUEST, VALIDATE, CONFIGURATION REQUEST, DOWNLOAD REQUEST, SSPR CONFIGURATION REQUEST, SSPR DOWNLOAD REQUEST, OTAPA REQUEST, PUZL CONFIGURATION REQUEST, PUZL DOWNLOAD REQUEST, 3GPD CONFIGURATION REQUEST, 3GPD DOWNLOAD REQUEST, SECURE MODE, and COMPUTE AUTHENTICATION.

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CR2 It is required that the GET RESPONSE command is executed immediately after the command it is related to (no other command shall come between the command/response pair and the command GET RESPONSE). If this sequence is not respected, the R-UIM shall send the Status Information "technical problem with no diagnostic given" as a reaction to the GET RESPONSE.

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CR3 Since the MF is implicitly selected after the activation of the R-UIM, GET RESPONSE shall be allowed as the first command after activation.

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3.6.2.42.3 Test Purpose

Verify that the coding of the GET RESPONSE command conforms to the above requirements.

3.6.2.42.4 Method of Test

NOTE: CR1 is tested in sections 3.5.1, 3.5.7, 3.5.8, 3.5.16, and 3.5.17.

3.6.2.42.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.

3.6.2.42.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends a GET RESPONSE command to the R-UIM.

[Bytes sent: CLA='A0', INS='C0', P1='00', P2='00', P3='08']

[Bytes received: P3 bytes of data, SW1, SW2]

Bytes 5 and 6 of the response data shall indicate that MF is the currently selected file [CR3].

- c) The ME Simulator sends a STATUS command to the R-UIM with the correct P3.
- d) The ME Simulator sends a GET RESPONSE command to the R-UIM.

[Bytes sent: CLA='A0', INS='C0', P1='00', P2='00', P3='05']

[Bytes received: SW1, SW2]

The status condition returned by the R-UIM shall be SW1='6F', SW2='XX' - technical problem with no diagnostic given [CR2].

1 3.6.3 Definitions and Coding

2 3.6.3.1 Definition and Applicability

3 Certain definitions and coding are used in the response parameters/data of the commands.

4 3.6.3.2 Conformance Requirement

5 CR1 ~~_____~~ The file structure indicator byte shall be one of the following values within the
6 specified range: '00', '01', or '03'.

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7 CR2 ~~_____~~ The file type indicator byte shall be one of the following values within the
8 specified range: '00', '01', '02' or '04'.

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9 3.6.3.3 Test Purpose

10 Verify that the response parameters/data conform to the above requirements for all file IDs on
11 the R-UIM.

12 NOTE: CR2 is covered in section 3.3.1.1, "File-type identification".

13 3.6.3.4 Method of Test

14 3.6.3.4.1 Initial Conditions

15 1) The R-UIM is connected to an ME Simulator.

16 3.6.3.4.2 Procedure

17 a) The ME Simulator resets the R-UIM.

18 b) For every possible selectable file ID in the file structure, the ME Simulator sends
19 SELECT commands to select the file ID. When a file is selected successfully, the ME
20 Simulator sends a GET RESPONSE command to the R-UIM.

21 *For all EFs found, the following shall be true of the response data:*

- 22 ▪ *Byte 15 shall be '00' if the EF is Transparent.*

23 *The file structure indicator byte shall be coded as follows, according to the specification in*
24 *clause 10 [2] [CR1]:*

- 25 ▪ *'00'=Transparent*
- 26 ▪ *'01'=Linear Fixed*
- 27 ▪ *'03'=Cyclic*

28 3.6.4 Status Conditions Returned by the R-UIM

29 3.6.4.1 Coding of the Status Words

30 3.6.4.1.1 Definition and Applicability

31 The status words SW1 and SW2 provide the method with which the R-UIM can respond to the
32 ME after executing a command.

3.6.4.1.2 Conformance Requirement

CR1 The R-UIM shall respond with the correct SW1 and SW2 status words for the commands that are correctly executed.

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CR2 The R-UIM shall respond with the correct SW1 and SW2 status words for the commands that produce memory management errors.

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CR3 The R-UIM shall respond with the correct SW1 and SW2 status words for the commands that produce referencing management errors.

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CR4 The R-UIM shall respond with the correct SW1 and SW2 status words for the commands that produce security management errors.

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CR5 The R-UIM shall respond with the correct SW1 and SW2 status words for the commands that produce application independent errors.

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3.6.4.1.3 Test Purpose

Verify that the R-UIM conforms to the above requirements when issuing SW1 and SW2 status words.

NOTE 1: CR2 cannot be tested as there is no mechanism to force the R-UIM to produce memory errors.

NOTE 2: CR4 is already tested in section 6.5.8.

3.6.4.1.4 Method of Test

3.6.4.1.4.1 Initial Conditions

- 1) The R-UIM is connected to an ME Simulator.
- 2) EF_{ADN} on the R-UIM is not invalidated.

3.6.4.1.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends a VERIFY CHV command to the R-UIM.
- c) The ME Simulator sends SELECT commands to the R-UIM to select DF_{CDMA}.
The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' - length 'XX' of the response data [CR1].
- d) The ME Simulator sends a GET RESPONSE command to the R-UIM.
The status condition returned by the R-UIM shall be SW1='90', SW2='00' - normal ending of command [CR1].
- e) The ME Simulator sends a READ BINARY command using a length of 1 byte to the R-UIM.
The status condition returned by the R-UIM shall be SW1='94', SW2='00' - no EF selected [CR3].
- f) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN}.

- 1 g) The ME Simulator sends an UPDATE RECORD command using PREVIOUS mode to the
2 R-UIM. The data used is 'E1' for all bytes.
- 3 h) The ME Simulator sends an UPDATE RECORD command using NEXT mode to the R-
4 UIM. The data used is 'E2' for all bytes.
- 5 *The status condition returned by the R-UIM shall be SW1='94', SW2='02' - out of range*
6 *(invalid address) [CR3].*
- 7 i) The ME Simulator sends a READ BINARY command using a length of 1 byte to the R-
8 UIM.
- 9 *The status condition returned by the R-UIM shall be SW1='94', SW2='08' - file type*
10 *inconsistent with the command [CR3].*
- 11 j) The ME Simulator sends a VERIFY CHV command with incorrect CHV1 to the R-UIM.
- 12 *The status condition returned by the R-UIM shall be SW1='98', SW2='04' - unsuccessful*
13 *CHV verification, at least one attempt left.*
- 14 k) The ME Simulator sends an ENABLE CHV command to the R-UIM.
- 15 *The status condition returned by the R-UIM shall be SW1='98', SW2='08' - in contradiction*
16 *with CHV status [CR3].*
- 17 l) The ME Simulator sends VERIFY CHV command with incorrect CHV1 to the R-UIM.
- 18 m) The ME Simulator sends VERIFY CHV command with incorrect CHV1 to the R-UIM.
- 19 *The status condition returned by the R-UIM shall be SW1='98', SW2='40' - unsuccessful*
20 *CHV verification, no attempt left.*
- 21 n) The ME Simulator sends an UPDATE RECORD command using ABSOLUTE mode with
22 record 1 to the R-UIM. Parameter P3 is set to 1 and the data used is 'E3'.
- 23 *The status condition returned by the R-UIM shall be SW1='67', SW2='XX' or SW1='98',*
24 *SW2='04' - incorrect parameter P3 [CR3].*
- 25 o) The ME Simulator sends an UPDATE RECORD command using mode '44' to the R-UIM.
26 The data used is 'E4' for all bytes.
- 27 *The status condition returned by the R-UIM shall be SW1='6B', SW2='00' or SW1='98',*
28 *SW2='04' - incorrect parameter P1 or P2 [CR3].*
- 29 p) The ME Simulator sends the following APDU to the R-UIM.
- 30 [Bytes sent: CLA='A0', INS='1E', P1='00', P2='00', P3='00']
- 31 *The status condition returned by the R-UIM shall be SW1='6D', SW2='00' - unknown*
32 *instruction code given in the command [CR5].*
- 33 q) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 34 *The status condition returned by the R-UIM shall be SW1='6F', SW2='XX' - technical*
35 *problem with no diagnostic given [CR5].*

3.6.4.2 Commands Versus Possible Status Responses

3.6.4.2.1 Definition and Applicability

Limiting the status conditions for each command to a defined set allows the ME to efficiently manage the handling of the status condition.

3.6.4.2.2 Conformance Requirement

CR1 Table 10 in Section 9.4.6 of [2] shows for each command the possible status conditions returned (marked by an asterisk *). The R-UIM shall not generate status conditions other than those allowed for each command.

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3.6.4.2.3 Test Purpose

Verify for each command that the R-UIM will only generate the allowed status conditions.

NOTE: CR1 cannot be tested as it is not possible to force the R-UIM to generate all of the allowed status conditions for each command and there is no way of forcing the R-UIM to generate disallowed status conditions for each command.

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3.7 Contents of the Elementary Files

This section provides tests to ensure that the IUT contains all of the EFs need for a CDMA session.

3.7.1 Definition and Applicability

The Elementary Files described in section 3 of [1] are required on the R-UIM in order for a CDMA session to be carried out.

The contents of these files are not tested as they are card/personalization specific.

3.7.2 Conformance Requirement

The following conformance requirements refer to the tables for each EF in section 3 of [1].

CR1 Each existing EF shall be selectable under the respective DF using the identifier given in the table for that EF.

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CR2 All mandatory EFs shall exist on the R-UIM.

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CR3 The identifier of the EF shall be that given in the table for that EF.

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CR4 The type and structure of the EF shall be that given in the table for that EF.

Deleted:

CR5 The file size shall be at least that given in the table for that EF.

Deleted:

CR6 The access conditions shall be those given in the table for that EF.

Deleted:

3.7.3 Test Purpose

Verify that the R-UIM conforms to the above requirements.

NOTE: The contents and coding of the data within the files are not tested, but shall conform to the respective contents and coding of the data given for each file in section 3 of [1].

1 3.7.4 Method of Test

2 3.7.4.1 Initial Conditions

- 3 1) The R-UIM is connected to an ME Simulator.

4 3.7.4.2 Procedure

- 5 a) The ME Simulator resets the R-UIM.
6 b) The ME Simulator sends SELECT commands to the R-UIM to select the respective DF
7 for the first EF in section 3 of [1].

8 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' - length 'XX' of*
9 *the response data [CR1].*

- 10 c) The ME Simulator sends a SELECT command to the R-UIM to select the first EF in
11 section 3 of [1].

12 *The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' - length 'XX' of*
13 *the response data [CR1, 2].*

- 14 d) The ME Simulator sends a GET RESPONSE command to the R-UIM.

15 *The following shall be true of the response data:*

- 16 ▪ *Bytes 5 and 6 shall indicate the identifier of the file selected. [CR3].*
- 17 ▪ *Byte 7 shall be '04' indicating EF [CR4].*
- 18 ▪ *Byte 14 shall indicate the structure given in the table for the file in section 3 of [1]*
19 *[CR4].*
- 20 ▪ *Bytes 3 and 4 shall be at least the minimum file size given in the table for the file*
21 *in section 3 of [1] if the EF is transparent [CR5].*
- 22 ▪ *Byte 15 shall be in accordance with the record length given in the table for the file*
23 *in section 3 of [1] if the EF is linear fixed or cyclic [CR5].*
- 24 ▪ *Bytes 3 and 4 shall be an integer multiple of the record length if the EF is linear*
25 *fixed or cyclic [CR5].*
- 26 ▪ *Bytes 9, 10 and 11 shall indicate the access conditions given in the table for the*
27 *file in section 3 of [1] [CR6].*

- 28 e) Steps a) to d) are repeated for the remaining mandatory EFs in section 3 of [1].

- 29 f) Steps a) to d) are repeated for the existing optional EFs in section 3 of [1].

30 3.8 Application Protocol

31 The tests in this section ensure that the IUT conforms to the functional specification for
32 application protocol - in particular the internal management of ADN/FDN switching in the R-
33 UIM.

3.8.1 FDN Procedure

3.8.1.1 Definition and Applicability

It shall be mandatory for all cards complying with [1] to support all internal management processing required for the CDMA application.

3.8.1.2 Conformance Requirement

CR1. If FDN is enabled, the R-UIM shall invalidate both EF_{IMSLT} or EF_{IMSLM} and EF_{TMSI} once during each CDMA session at least before the next command following selection of either EF.

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3.8.1.3 Test Purpose

Verify that the FDN feature conforms to the above requirements.

3.8.1.4 Method of Test

3.8.1.4.1 Initial Conditions

- 1) FDN feature is allocated and activated.
- 2) ADN feature is allocated and activated.
- 3) EF_{ADN} is invalidated.

3.8.1.4.2 Procedure

- a) The ME Simulator resets the R-UIM.
- b) The ME Simulator sends a VERIFY CHV1 to the R-UIM.
- c) The ME Simulator sends SELECT commands to the R-UIM to select EF_{IMSLM} or EF_{IMSLT} under DF_{CDMA}.
- d) The ME Simulator sends a GET RESPONSE command to the R-UIM.
Bit 1 of byte 12 of the data returned shall be '0' indicating that EF_{IMSLM} or EF_{IMSLT} is invalidated [CR1].
- e) The ME Simulator sends a REHABILITATE command to the R-UIM.
- f) The ME Simulator sends a SELECT command to the R-UIM to select EF_{TMSI}.
- g) The ME Simulator sends a GET RESPONSE command to the R-UIM.
Bit 1 of byte 12 of the data returned shall be '0' indicating that EF_{TMSI} is invalidated [CR1].
- h) The ME Simulator sends a REHABILITATE command to the R-UIM.
- i) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under DF_{TELECOM}.
- j) The ME Simulator sends a VERIFY CHV2 to the R-UIM.
- k) The ME Simulator sends a REHABILITATE command to the R-UIM.
- l) The ME Simulator sends a SELECT command to the R-UIM to select EF_{CST}.

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- 1 m) The ME Simulator gains the access condition for UPDATE policy.
- 2 n) The ME Simulator sends an UPDATE BINARY command to the R-UIM to deactivate
3 the ADN service.
- 4 o) The ME Simulator resets the R-UIM.
- 5 p) The ME Simulator sends a VERIFY CHV1 to the R-UIM.
- 6 q) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
7 DF_{CDMA}.
- 8 r) The ME Simulator sends a GET RESPONSE command to the R-UIM.
9 *Bit 1 of byte 12 of the data returned shall be '0' indicating that EF_{TMSI} is invalidated*
10 *[CR1].*
- 11 s) The ME Simulator sends a REHABILITATE command to the R-UIM.
- 12 t) The ME Simulator sends a SELECT command to the R-UIM to select EF_{IMSLM} or
13 EF_{IMSLT}.
- 14 u) The ME Simulator sends a GET RESPONSE command to the R-UIM.
15 *Bit 1 of byte 12 of the data returned shall be '0' indicating that EF_{IMSLM} or EF_{IMSLT} is*
16 *invalidated [CR1].*
- 17 y) The ME Simulator sends a REHABILITATE command to the R-UIM.
- 18 w) The ME Simulator sends a SELECT command to the R-UIM to select EF_{CST}.
- 19 x) The ME Simulator gains the access condition for UPDATE policy.
- 20 y) The ME Simulator sends an UPDATE BINARY command to the R-UIM to de-allocate
21 and de-activate the ADN service.
- 22 z) The ME Simulator resets the R-UIM.
- 23 aa) The ME Simulator sends a VERIFY CHV1 to the R-UIM.
- 24 bb) The ME Simulator sends SELECT commands to the R-UIM to select EF_{TMSI} under
25 DF_{CDMA}.
- 26 cc) The ME Simulator sends a GET RESPONSE command to the R-UIM.
27 *Bit 1 of byte 12 of the data returned shall be '0' indicating that EF_{TMSI} is invalidated*
28 *[CR1].*
- 29 dd) The ME Simulator sends a REHABILITATE command to the R-UIM.
- 30 ee) The ME Simulator sends a SELECT command to the R-UIM to select EF_{IMSLM} or
31 EF_{IMSLT}.
- 32 ff) The ME Simulator sends a GET RESPONSE command to the R-UIM.
33 *Bit 1 of byte 12 of the data returned shall be '0' indicating that EF_{IMSLM} or EF_{IMSLT} is*
34 *invalidated [CR1].*
- 35 gg) The ME Simulator sends a REHABILITATE command to the R-UIM.

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- 1 hh) The ME Simulator sends a SELECT command to the R-UIM to select EF_{CST}.
- 2 ii) The ME Simulator sends an UPDATE BINARY command to the R-UIM to allocate and
- 3 activate the ADN service.
- 4 jj) The ME Simulator resets the R-UIM.
- 5 kk) The ME Simulator sends a SELECT command to the R-UIM to select EF_{TMSI}.
- 6 ll) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 7 *Bit 1 of byte 12 of the data returned shall be '1' indicating that EF_{TMSI} is not invalidated*
- 8 *[CR1].*
- 9 mm) The ME Simulator sends a SELECT command to the R-UIM to select EF_{IMS_LM} or
- 10 EF_{IMS_T}.
- 11 nn) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 12 *Bit 1 of byte 12 of the data returned shall be '1' indicating that EF_{IMS_LM} or EF_{IMS_T} is not*
- 13 *invalidated [CR1].*
- 14 oo) The ME Simulator sends a SELECT command to the R-UIM to select EF_{CDMA_SST}.
- 15 pp) The ME Simulator gains the access condition for UPDATE policy.
- 16 qq) The ME Simulator sends an UPDATE BINARY command to the R-UIM to deactivate
- 17 the FDN service.
- 18 rr) The ME Simulator sends SELECT commands to the R-UIM to select EF_{ADN} under
- 19 DF_{TELECOM}.
- 20 ss) The ME Simulator sends a VERIFY CHV2 to the R-UIM.
- 21 tt) The ME Simulator sends an INVALIDATE command to the R-UIM.
- 22 uu) The ME Simulator resets the R-UIM.
- 23 vv) The ME Simulator sends a SELECT command to the R-UIM to select EF_{TMSI}.
- 24 ww) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 25 *Bit 1 of byte 12 of the data returned shall be '1' indicating that EF_{TMSI} is not invalidated*
- 26 *[CR1].*
- 27 xx) The ME Simulator sends a SELECT command to the R-UIM to select EF_{IMS_LM} or
- 28 EF_{IMS_T}.
- 29 yy) The ME Simulator sends a GET RESPONSE command to the R-UIM.
- 30 *Bit 1 of byte 12 of the data returned shall be '1' indicating that EF_{IMS_LM} or EF_{IMS_T} is not*
- 31 *invalidated [CR1].*

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Definition and Applicability

It shall be mandatory for all cards complying with [1].

This command is used to request PUZL configuration for a PUZL parameter block type, such as Preferred User Zone List Parameter Block.

Note: These tests can be extended to cover the following parameter blocks: PUZL Dimension, PUZL Priorities, and User Zone.

Conformance Requirement

CR1 The PUZL Configuration Request response shall return a Block ID, a Result Code '00', Block Length, and associated Parameter Block Data if the operation is successful.

CR2 The PUZL Configuration Request response shall return a Result Code of '11' if the requested parameter block is valid but there is no entry in the current PUZL stored in the R-UIM.

CR3 The PUZL Configuration Request response shall return a Result Code of '07' if the requested parameter block is not supported in the R-UIM.

CR4 The PUZL Download Request response shall return a Block ID and a Result Code '02' if the parameter block received in the PUZL Download Request Command has a size different from that supported by the R-UIM.

CR5 The PUZL Configuration Request response for the User Zone Parameter Block (Block ID='02'), shall return a Result Code of '10', "Rejected – User Zone not in PUZL" if the parameter block for the UZ_ID and UZ_SID values in the PUZL Download Request Command is not present in the current preferred user zone list.

Test Purpose

Verify that the PUZL Configuration function conforms to the above requirement.

Method of Test

Initial Conditions

The R-UIM is connected to an ME Simulator.

The protocol capability/validation request/response procedures have been performed successfully. All the security related conditions are satisfied.

The ME simulator has the knowledge of all the entries in PUZL.

The R-UIM supports the PUZL parameter block.

EFSNAMLOCK='00'.

Procedure

The ME Simulator resets the R-UIM.

The ME Simulator sends a VERIFY CHV command to the R-UIM.

The ME Simulator sends a SELECT command to the R-UIM to select DFCDMA.

The ME Simulator sends a PUZL CONFIGURATION REQUEST command to the R-UIM with Block ID='03' (PUZL).

The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending of the command.

The ME Simulator sends a GET RESPONSE command to the R-UIM.

The R-UIM shall return Block ID='03', Result Code='00' (Accepted – Operation successful), Block Length of Param Data, and Param Data [CR1].

The ME Simulator resets the R-UIM.

The ME Simulator sends a VERIFY CHV command to the R-UIM.

The ME Simulator sends a SELECT command to the R-UIM to select DFCDMA.

The ME Simulator sends a PUZL CONFIGURATION REQUEST command to the R-UIM with Block ID='03' and a PUZL entry not available in EFPUZL in the R-UIM.

The status condition returned by the R-UIM shall be SW1='9F', SW2='XX' – normal ending of the command.

The ME Simulator sends a GET RESPONSE command to the R-UIM.

The R-UIM shall return Block ID='03', Result Code='11' (Rejected – No entries in PUZL), Block Length of Param Data, and Param Data [CR2].

The ME Simulator resets the R-UIM.

The ME Simulator sends a VERIFY CHV command to the R-UIM.

The ME Simulator sends a SELECT command to the R-UIM to select DFCDMA.

The ME Simulator sends a PUZL CONFIGURATION REQUEST command with Block ID='FF' (Invalid Block ID).

The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending of the command.

The ME Simulator sends a GET RESPONSE command to the R-UIM.

The R-UIM shall return Block ID='FF' and Result Code='07' (Block ID value not supported) [CR3].

The ME Simulator resets the R-UIM.

The ME Simulator sends a VERIFY CHV command to the R-UIM.

The ME Simulator sends a SELECT command to the R-UIM to select DFCDMA.

The ME Simulator sends a PUZL CONFIGURATION REQUEST command to the R-UIM with Block ID='03' and an invalid Request Offset.

The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending of the command.

The ME Simulator sends a GET RESPONSE command to the R-UIM.

The R-UIM shall return Block ID='03' and Result Code='02' (Rejected – Data size mismatch) [CR4].

The ME Simulator resets the R-UIM.

The ME Simulator sends a VERIFY CHV command to the R-UIM.

The ME Simulator sends a SELECT command to the R-UIM to select DFCDMA.

The ME Simulator sends a PUZL CONFIGURATION REQUEST command to the R-UIM with Block ID='02' and the UZ_ID and UZ_SID parameters not present EFPUZL in the R-UIM.

The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending of the command.

The ME Simulator sends a GET RESPONSE command to the R-UIM.

The R-UIM shall return Block ID='02' and Result Code='10' (Rejected – User Zone not in PUZL) [CR5].

PUZL Download Request

Definition and Applicability

It shall be mandatory for all cards complying with [1].

This command downloads PUZL parameter block data such as PUZL Flags to the R-UIM.

Note: These tests can be extended to cover the following parameter blocks: User Zone Update, User Zone Delete, User Zone Priority, and PUZL Flags.

Conformance Requirement

CR1 The PUZL Download Request response shall return a Block ID and a Result Code of '00'.

CR2 The PUZL Download Request response shall return a Block ID and a Result Code of '07' if the parameter block received in the PUZL Download Request Command is not supported by the R-UIM.

CR3 The PUZL Download Request response shall return a Block ID and a Result Code of '02' if the parameter block received in the PUZL Download Request Command has a size different from that supported by the R-UIM

CR4 The Commit response shall return a Result Code of '00' and the R-UIM transfers all the data stored in temporary memory to semi-permanent memory and updates EF_{PUZL} .

Test Purpose

Verify that the validate function conforms to the above requirement.

Method of Test

Initial Conditions

The R-UIM is connected to an ME Simulator.

The protocol capability/validation request/response procedures have been performed successfully. All the security related conditions are satisfied.

The ME simulator knows all the PUZL parameter blocks supported by the R-UIM.

The R-UIM supports the PUZL Dimension and PUZL parameter blocks.

Procedure

The ME Simulator resets the R-UIM.

The ME Simulator sends a VERIFY CHV command to the R-UIM.

The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

The ME Simulator sends a PUZL Download Request command to the R-UIM with Block ID='04' (PUZL Flags), Block Length='01', and Param Data='00'.

The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending of the command.

The ME Simulator sends a GET RESPONSE command to the R-UIM.

The R-UIM shall return Block ID='04', Result Code='00' (Accepted – operation successful), and Identifiers Present Flags='00' [CR1].

The ME Simulator sends a Commit command to the R-UIM.

The R-UIM shall return Result Code='00' (Accepted – Operation successful) and update EF_{PUZL} [CR4].

The ME Simulator resets the R-UIM.

The ME Simulator sends a VERIFY CHV command to the R-UIM.

The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

The ME Simulator sends a PUZL DOWNLOAD REQUEST command to the R-UIM with Block ID= 'FF' (Invalid Block ID) and Block Length='00'.

The status condition returned by the R-UIM shall be SW1='9F', SW2='02' – normal ending of the command.

The ME Simulator sends a GET RESPONSE command to the R-UIM.

The R-UIM shall return Block ID='FF' and Result Code='00' (Block ID value not supported) [CR2].

The ME Simulator resets the R-UIM.

The ME Simulator sends a VERIFY CHV command to the R-UIM.

The ME Simulator sends a SELECT command to the R-UIM to select DF_{CDMA}.

The ME Simulator sends a PUZL DOWNLOAD REQUEST command to the R-UIM with Block ID='04' (PUZL Flags), Block Length='02', and Param Data='00 00'.

The status condition returned by the R-UIM shall be SW1='9F', SW2='03' – normal ending of the command.

The ME Simulator sends a GET RESPONSE command to the R-UIM.

The R-UIM shall return Block ID='04', Result Code='10' (Rejected - Data size mismatch), and Identifiers Present Flags= '00', and Identifiers Present Flags='00' [CR3].