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Mobile Equipment (ME) Conformance Testing with R-UIM for cdma2000 Spread Spectrum Standards

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1 Revision History

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4 Table 2. Applicability Matrix of Test Cases for the Different Revisions A-1

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1 **FOREWORD**

2 This foreword is not part of this specification.

3 This specification was prepared by the Third Generation Partnership Project 2 (3GPP2).

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1 INTRODUCTION

1.1 Scope

The present document provides the ME (Mobile Equipment) conformance test specification related to R-UIM (Removable User Identity Module), in order to ensure interoperability between an ME and an R-UIM as defined in [1], [2], [8] and [9] independently of the terminal and card manufacturers, card issuer or operator.

This document does not specify which test cases are mandatory or optional. However, to successfully execute a particular test case, its corresponding test requirements and procedures as defined in this document shall be followed.

1.2 Document Conventions

1.2.1 Requirements

“Shall” and “shall not” identify requirements to be followed strictly to conform to this document and from which no deviation is permitted. “Should” and “should not” indicate that one of several possibilities is recommended as particularly suitable, without mentioning or excluding others, that a certain course of action is preferred but not necessarily required, or that (in the negative form) a certain possibility or course of action is discouraged but not prohibited. “May” and “need not” indicate a course of action permissible within the limits of the document. “Can” and “cannot” are used for statements of possibility and capability, whether material, physical or causal.

1.2.2 Numbers

The following table describes the conventions used for non-decimal numbers.

Convention	Description
‘1’ or ‘0’	A single binary bit
‘bbbbbbbb’	An 8-bit binary number
‘xx’	A single octet hexadecimal number
‘xx xx xx...xx xx’	A multi-octet hexadecimal number
Note: If an ‘x’ is present in a binary or hexadecimal number, then that digit is “don’t care”.	

“B_n” represents Byte *n* of the coding starting from left to right, i.e. MSB to LSB. “b_n” represents Bit *n* of the byte starting from right to left, i.e. LSB to MSB

1.3 Terminology

1.3.1 Acronyms

For the purposes of the present document, the following acronyms apply:

3GPP2 3rd Generation Partnership Project 2

CHV1 Card Holder Verification 1

1	CHV2	Card Holder Verification 2
2	EF	Elementary File
3	EPRL	Extended Preferred Roaming List
4	DF	Directory File
5	CS	Card Simulator (which simulates R-UIM for ME testing)
6	ME	Mobile Equipment
7	MEID	Mobile Equipment Identifier
8	MF	Master File
9	MO	Mobile-Originated
10	MS	Mobile Station
11	MT	Mobile-Terminated
12	OTAPA	Over-the-Air Parameter Administration
13	OTASP	Over-the-Air Service Provisioning
14	NS	Network Simulator
15	PRL	Preferred Roaming List
16	R-UIM	Removable User Identity Module
17	SIM	Subscriber Identity Module
18	SO	Service Option
19	SSD	Shared Secret Data
20	UUT	Unit Under Test

21 **1.4 References**

22 1.4.1 Normative References

- 23 [1] 3GPP2 C.S0023-D v1.0 (June 2009): "Removable User Identity Module
24 (R-UIM) for cdma2000 Spread Spectrum Systems".
- 25 [2] 3GPP 51.011: "Digital cellular telecommunications system (Phase 2+);
26 Specification of the Subscriber Identity Module - Mobile Equipment (SIM -
27 ME) interface".
- 28 [3] ISO/IEC 7816-1: "Identification cards - Integrated circuit(s) cards with
29 contacts, Part 1: Physical characteristics".
- 30 [4] ISO/IEC 7816-2: "Identification cards - Integrated circuit(s) cards with
31 contacts, Part 2: Dimensions and locations of the contacts".
- 32 [5] ISO/IEC 7816-3: "Identification cards - Integrated circuit(s) cards with
33 contacts, Part 3: Electronic signals and transmission protocols."

- 1 [6] ISO/IEC 7811-1: "Identification cards - Recording technique - Part 1:
2 Embossing"
- 3 [7] ISO/IEC 7811-3: "Identification cards - Recording technique - Part 3:
4 Location of embossed characters on ID-1 cards"
- 5 [8] GSM 11.12: "Digital cellular telecommunications system (Phase 2);
6 Specification of the 3 Volt Subscriber Identity Module - Mobile Equipment
7 (SIM - ME) interface".
- 8 [9] 3GPP 31.101: "Digital cellular telecommunications system (Phase 2+);
9 Specification of the 1.8 Volt Subscriber Identity Module - Mobile Equipment
10 (SIM - ME) interface".
- 11 [10] 3GPP 51.010: "Mobile Station (MS) conformance specification; Part 1:
12 Conformance specification".
- 13 [11] Reserved.
- 14 [12] 3GPP2 C.S0043-A v1.0 (September 2010): "Signaling Conformance Test
15 Specification for cdma2000 Spread Spectrum Systems".
- 16 [13] 3GPP2 C.S0060-0 v1.0 (December 2005): "Signaling Conformance Test
17 Specification for Over-the-Air Service Provisioning".
- 18 [14] 3GPP2 C.S0073-B v1.0 (August 2009): "Signaling Test Specification for
19 Mobile Station Equipment Identifier (MEID) Support for cdma2000 Spread
20 Spectrum Systems".
- 21 [15] ITU X.509 (1 August 2005): "Information technology - Open Systems
22 Interconnection - The Directory: Public-key and attribute certificate
23 frameworks".
- 24 [16] 3GPP2 C.S0005-E v2.0 (June 2010): "Upper Layer (Layer 3) Signaling
25 Standard for cdma2000 Spread Spectrum Systems".
- 26 [17] 3GPP2 C.S0004-E v2.0 (June 2010): "Signaling Link Access Control (LAC)
27 Standard for cdma2000 Spread Spectrum Systems".
- 28 [18] 3GPP2 C.S0016-D v1.0 (January 2010): "Over-the-Air Service Provisioning of
29 Mobile Stations in Spread Spectrum Standards".
- 30 [19] ETSI TS 102 221: "UICC-Terminal Interface; Physical and Logical
31 Characteristics".
- 32
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1 **2 RESERVED**

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3 **3 RESERVED**

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5 **4 ME TEST ENVIRONMENT**

6 The test environment shall comply with the requirements specified in section 4 “Physical
7 Characteristics” and section 5 “Electronic Signals and Transmission Protocols” of [2].

8 The following diagram illustrates the test environment involving a Card Simulator (CS), the
9 Unit Under Test (UUT) and Network Simulator (NS). The UUT in this document is the
10 Mobile Equipment (ME). CS simulates R-UIM or CSIM for the purpose of ME conformance
11 testing. NS simulates the network, which is primarily a “base station” and may include
12 other network components and servers as needed.

13 In this document, the CS simulates an R-UIM. Alternatively, to perform the logical tests,
14 R-UIMs programmed with specific data may be used. Chapter 5 defines the default R-UIM
15 data for use in all test cases. Some test cases use certain R-UIM data that are different
16 from the default R-UIM data.



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Figure 1. ME Test Environment

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5 TESTING OF THE ME

The test cases defined in chapter 6 confirm:

1. the correct interpretation of data read from the R-UIM (Removable-User Identification Module) by the ME;
2. the correct writing of data to the R-UIM by the ME;
3. the initiation of appropriate procedures by the ME;
4. exchange protocols;
5. electrical characteristics;
6. physical characteristics.

All tests apply to MEs conforming to [1].

The following sections define the default R-UIM parameters for use by all test cases.

5.1 Definition of Default Values for R-UIM/ME Interface Testing

A CS containing the following default values is used for all tests in this document unless otherwise stated.

For all data items, the logical default values and the coding within the elementary files (EFs) and other parameters of the CS follow.

5.1.1 EF_{CST} (CDMA Service Table)

The common CDMA Service Table will allow the use of most of the functionality described in [1]. If specific settings for a test case have to be used, an appropriate modification for EF_{CST} in the initial conditions of the test case will be needed. (In the following table, “Y” indicates “Yes” which means allocated or activated. “N” indicates “No” which means not allocated or not activated.)

Table 1. Default Values for EF_{CST}

Services	Description	Allocated	Activated
1	CHV Disable Function	Y	Y
2	Abbreviated Dialing Numbers (ADN)	Y	Y
3	Fixed Dialing Numbers (FDN)	Y	N
4	Short Message Storage (SMS)	Y	Y
5	HRPD	Y	Y
6	Enhanced Phone Book	N	N
7	Multi Media Domain (MMD)	N	N
8	SF_EUIMID-based EUIMID	Y	Y

Services	Description	Allocated	Activated
9	MEID Support	Y	Y
10	Extension1	Y	Y
11	Extension2	Y	N
12	SMS Parameters	Y	Y
13	Last Number Dialed (LND)	N	N
14	Service Category Program for BC-SMS	Y	Y
15	Messaging and 3GPD Extensions	Y	Y
16	Root Certificates	Y	Y
17	CDMA Home Service Provider Name	Y	Y
18	Service Dialing Numbers (SDN)	N	N
19	Extension3	N	N
20	3GPD-SIP	Y	Y
21	WAP Browser	Y	Y
22	Java	Y	Y
23	Reserved for CDG	N	N
24	Reserved for CDG	N	N
25	Data Download via SMS Broadcast	N	N
26	Data Download via SMS-PP	N	N
27	Menu Selection	N	N
28	Call Control	N	N
29	Proactive R-UIM	N	N
30	AKA	N	N
31	IPv6	N	N
32	RFU	N	N
33	RFU	N	N
34	RFU	N	N
35	RFU	N	N
36	RFU	N	N
37	RFU	N	N
38	3GPD-MIP	Y	Y
39	BCMCS	N	N
40	Multimedia Messaging Service (MMS)	Y	Y
41	Extension 8	Y	Y
42	MMS User Connectivity Parameters	N	N

Services	Description	Allocated	Activated
43	Application Authentication	N	N
44	Group Identifier Level 1	N	N
45	Group Identifier Level 2	N	N
46	De-Personalization Control Keys	N	N
47	Cooperative Network List	N	N

1

Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12

Hex: DF C3 DF FC C3 0F 00 00 00 CC 03 00

2 5.1.2 EF_{USGIND} (UIM_ID/SF_EUMID Usage Indicator)

3 UIM_ID usage indicator: UIM_ID is used for CAVE authentication and MS identification

4 SF_EUMID usage indicator: MEID is used for MS identification

5

Byte: B1

Hex: 01

6 5.1.3 EF_{IMSI_M} (IMSI_M)

7 IMSI_M_CLASS: Class 0

8 IMSI_M_ADDR_NUM: IMSI_M has been programmed, Address 000

9 MCC_M: 404 (India)

10 IMSI_M_11_12: 0

11 IMSI_M_S_1: 000 9520

12 IMSI_M_S_2: 000

13

Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10

Hex: 00 E7 03 A3 E5 F9 63 80 89 01

14

15 5.1.4 EF_{ESNME} (ESN_ME)

16 Number of bytes: 0

17 ESN_ME: 0 (not set)

18

Byte: B1 B2 B3 B4 B5 B6 B7 B8

Hex: 00 00 00 00 00 00 00 00

19 5.1.5 EF_{CDMAHOME} (CDMA Home SID, NID)

20 Record 1:

3GPP2 C.S0048-A v1.0

1 CDMA Home SID (SIDp): 1000
2 CDMA Home NID (NIDp): 2222
3 Band Class: 0 (800 MHz cellular band)
4
Byte: B1 B2 B3 B4 B5
Hex: E8 03 AE 08 00
5 Record 2:
6 CDMA Home SID (SIDp): 1000
7 CDMA Home NID (NIDp): 2222
8 Band Class: 1 (1.8 to 2.0 GHz PCS band)
9
Byte: B1 B2 B3 B4 B5
Hex: E8 03 AE 08 01
10 Record 3:
11 CDMA Home SID (SIDp): 1000
12 CDMA Home NID (NIDp): 2222
13 Band Class: 3 (832 to 925 MHz JTACS band)
14
Byte: B1 B2 B3 B4 B5
Hex: E8 03 AE 08 03
15 Record 4:
16 CDMA Home SID (SIDp): 1000
17 CDMA Home NID (NIDp): 2222
18 Band Class: 4 (1.75 to 1.87 GHz Korean PCS band)
19
Byte: B1 B2 B3 B4 B5
Hex: E8 03 AE 08 04
20 Record 5:
21 CDMA Home SID (SIDp): 1000
22 CDMA Home NID (NIDp): 2222
23 Band Class: 5 (450 MHz NMT band)
24
Byte: B1 B2 B3 B4 B5
Hex: E8 03 AE 08 05
25 Record 6:

1 CDMA Home SID (SIDp): 1000
2 CDMA Home NID (NIDp): 2222
3 Band Class: 6 (2 GHz IMT-2000 band)
4

Byte: B1 B2 B3 B4 B5
Hex: E8 03 AE 08 06

5 5.1.6 CHV1

6 Logically: 2468
7

Byte: B1 B2 B3 B4 B5 B6 B7 B8
Hex: 32 34 36 38 FF FF FF FF

8 5.1.7 CHV2

9 Logically: 3579
10

Byte: B1 B2 B3 B4 B5 B6 B7 B8
Hex: 33 35 37 39 FF FF FF FF

11 5.1.8 UNBLOCK CHV1

12 Logically: 13243546
13

Byte: B1 B2 B3 B4 B5 B6 B7 B8
Hex: 31 33 32 34 33 35 34 36

14 5.1.9 UNBLOCK CHV2

15 Logically: 08978675
16

Byte: B1 B2 B3 B4 B5 B6 B7 B8
Hex: 30 38 39 37 38 36 37 35

1 5.1.10 EF_{ADN} (Abbreviated Dialing Number)

2 At least 10 records.

3 Record 1:

4 Length of alpha identifier: 32 characters
 5 Alpha identifier: "ABCDEFGHJKLMNOPQRSTUVWXYZABCDEF"
 6 Length of BCD number: 3
 7 TON and NPI: Telephony and Unknown
 8 Dialed number: 123
 9 CCI: None
 10 Ext1: None

Byte: B1 B2 B3 ... B32 B33 B34 B35 B36 B37 B38 B39 ... B46
 Hex: 41 42 43 ... 46 03 81 21 F3 FF FF FF ... FF

11 5.1.11 EF_{FDN} (Fixed Dialing Numbers)

12 Multiple records:

13 Record 1:

14 Length of alpha identifier: 6 characters
 15 Alpha identifier: "FDN111"
 16 Length of BCD number: 6
 17 TON and NPI: Telephony and Unknown
 18 Dialed number: 1357924680
 19 CCI: None
 20 Ext2: None

21 Coding for record 1:

Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
 Hex: 46 44 4E 31 31 31 06 81 31 75 29 64
 Byte: B13 B14 B15 B16 B17 B18 B19 B20
 Hex: 08 FF FF FF FF FF FF FF

22

23 Record 2:

24 Length of alpha identifier: 6 characters
 25 Alpha identifier: "FDN222"

1 Length of BCD number: 4
 2 TON and NPI: Telephony and Unknown
 3 Dialed number: 24680
 4 CCI: None
 5 Ext2: None

6

7 Coding for record 2:

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex:	46	44	4E	32	32	32	04	81	42	86	F0	FF
Byte:	B13	B14	B15	B16	B17	B18	B19	B20				
Hex:	FF	FF	FF	FF	FF	FF	FF	FF				

8

9 Record 3:

10 Length of alpha identifier: 6 characters
 11 Alpha identifier: "FDN333"
 12 Length of BCD number: 10
 13 TON and NPI: Telephony and Unknown
 14 Dialed number: 12345678901234567890
 15 CCI: None
 16 Ext3: None

17 Coding for record 3 (Hex):

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex:	46	44	4E	33	33	33	0B	81	21	43	65	87
Byte:	B13	B14	B15	B16	B17	B18	B19	B20				
Hex:	09	21	43	65	87	09	FF	FF				

18

19 5.1.12 EF_{SMSCAP} (SMS Capabilities)

20 SMS Retry Period: 30 seconds
 21 SMS Retry Interval: 5 seconds
 22 SMS Flags:
 23 Send On Access: True
 24 Send on Traffic: True

1 Send as Standard EMS: True
2 SMS Preferred Service Option: Device default

3
Byte: B1 B2 B3 B4
Hex: 1E 05 07 00

4 5.1.13 EF_{SMSP} (SMS Parameters)

5 Record 1:

6 Teleservice Identifier: CDMA Cellular Messaging Teleservice [CMT-95]
7 Parameter Indicators: MSG_ENCODING, Validity Period, Bearer Data
8 Message Encoding: 7-bit ASCII
9 Validity Period: Indefinite
10 Bearer Data:
11 Priority Indicator: Emergency

12
Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
Hex: 00 02 10 02 5D FE FF FF 02 F5 FF FF

Byte: B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23
Hex: FF FF FF FF FF FF 08 03 08 01 C0

13 5.1.14 EF_{SIPUPP} (SimpleIP User Profile Parameters)

14 NAI Entry Index: 0
15 NAI: “abc0@xyz.com”
16 Authentication Algorithm: CHAP to PAP fallback

17
Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
Hex: 0F 10 0C 61 62 63 30 40 78 79 7A 2E

Byte: B13 B14 B15 B16
Hex: 63 6F 6D 30

18 5.1.15 EF_{SIPUPPExt} (SimpleIP User Profile Parameters Extension)

19 NAI Entry Index: 0
20 Applications: WAP, MMS

1 Priority: 100
 2 Data Rate Mode: High Speed
 3 Data Bearer: Hybrid 1xEV-DO/1x

4
 Byte: B1 B2 B3 B4 B5 B6 B7
 Hex: 10 00 00 00 06 64 20

5 5.1.16 EF_{SIPPAPSS} (Simple IP PAP SS)

6 NAI Entry Index: 0
 7 PAP SS: "PAP SS 0"

8
 Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11
 Hex: 0A 10 42 82 0A 81 02 9A 99 01 80

9 5.1.17 Simple IP CHAP SS

10 NAI Entry Index: 0
 11 CHAP SS: "CHAP SS 0"

12 Coding is depending on the implementation of the CS.

13 5.1.18 EF_{DGC} (Data Generic Configurations)

14 Data dormant timer: 30 seconds
 15 EPZID Type: Packet Zone ID
 16 Hysteresis Activation Time: 30 seconds

17
 Byte: B1 B2 B3
 Hex: 1E 00 1E

18 5.1.19 EF_{MIPUPP} (Mobile IP User Profiles)

19 MIP Registration Max Retries : 2
 20 MIP Registration First Retry Timeout: 2000ms
 21 MIP Re-registration Threshold: 3 minutes
 22 NAI Entry Index: 0
 23 NAI: "abc@xyz.com"
 24 T_BIT: True
 25 Home Address: "11.22.33.44"

1 Primary Home Agent: "22.33.44.55"
 2 Secondary Home Agent: "33.44.55.66"
 3 MN-AAA Auth Algorithm: MD5
 4 MN-AAA SPI: None
 5 MN-HA Auth Algorithm: MD5
 6 MN-HA SPI: None

7
 Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
 Hex: 1C DC 31 00 B6 16 26 34 07 87 97 A2

Byte: B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23 B24
 Hex: E6 36 F6 D8 58 B1 09 60 B1 09 61 B9

Byte: B25 B26 B27 B28 B29
 Hex: 09 61 BA 10 84

8 5.1.20 EF_{MIPUPPExt} (Mobile IP User Profiles Extension)

9 Applications: Unspecified
 10 Priority: 0
 11 Data Rate Mode: High
 12 Data Bearer: Hybrid 1xEV-DO/1x

13
 Byte: B1 B2 B3 B4 B5 B6 B7
 Hex: 10 00 00 00 01 00 20

14 5.1.21 Mobile IP SS

15 MN-AAA SS: "MN-AAA SS"
 16 MN-HA SS: "MN-HA SS"
 17 Coding is depending on the implementation of the CS.

18 5.1.22 EF_{MIPFlags} (Mobile IP Flags)

19 Mobile IP 2002bis MN HA Authentication: False
 20 Mobile IP Pre Rev 6 handoff optimization: False
 21 Mobile IP PPP Re-sync during hand-down from 1xEV-DO Rev 0 to 1x: False
 22 Mobile IP Re-registration only if data has been transferred since last registration in order to
 23 extend Mobile IP address lifetime: False

1

Byte: B1

Hex: 00

2 5.1.23 EF_{3GPDOPM} (3GPD Operation Mode)

3 Operation Mode: MobileIP to SimpleIP fallback

4

Byte: B1

Hex: 40

5 5.1.24 EF_{SPN} (CDMA Home Service Provider Name)

6 Display Condition: Display of registered system is required

7 Character Encoding: 7-bit ASCII

8 Language Indicator: 1 (English)

9 Service Provider Name: "Default Service Provider Name"

10

Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12

Hex: 01 02 01 44 65 66 61 75 6C 74 20 53

Byte: B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23 B24

Hex: 65 72 76 69 63 65 20 50 72 6F 76 69

Byte: B25 B26 B27 B28 B29 B30 B31 B32 B33 B34 B35

Hex: 64 65 72 20 4E 61 6D 65 FF FF FF

11

12 5.1.25 EF_{AppLabels} (Application Labels)

13 Character Encoding: 7-bit ASCII

14 Language Indicator: 1 (English)

15 Application Labels Present: MMS, WAP Browser

16 Application Label Field 1: "ABCD"

17 Application Label Field 2: "EFG"

Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 ... B36 B37

Hex: 02 01 00 03 41 42 43 44 FF FF FF 45

Byte: B38 B39 B40 ... B132

Hex: 46 47 FF FF FF

1
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5.1.26 EF_{Model} (Device Model Information)

Character Encoding: not specified = 0x FF
Language Indicator: not specified = 0x FF
Model Information: Default coding, 32 byte 0x FF
Manufacturer Name: Default coding, 32 byte 0x FF
Software Version: Default coding, 60 byte 0x FF

Byte: B1 ... B126
Hex: FF ... FF

5.1.27 EF_{ECC} (Emergency Call Codes)

Character Encoding: BCD format

Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
Hex: 11 F1 FF 22 F2 FF 33 F3 FF 44 F4 FF

Byte: B13 B14 B15
Hex: 55 F5 FF

5.1.28 EF_{HRPDCAP} (HRPD Capabilities)

Maximum NAI Length: 32
Maximum Length of Shared Secret: 31
Authentication Algorithms: PPP CHAP

Byte: B1 B2 B3
Hex: 20 F8 80

5.1.29 EF_{HRPDUPP} (HRPD Access Authentication User Profile Parameters)

HRPD Profile NAI: "abc@xyz.com"
HRPD Profile Authentication Algorithm: CHAP

Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
Hex: 0D 0B 61 62 63 40 78 79 7A 2E 63 6F

Byte: B13 B14
Hex: 6D 10

1 5.1.30 HRPD Access Authentication CHAP SS

2 Shared Secret: "HRPD SS"

3 Coding is depending on the implementation of the CS.

4 5.1.31 EF_{WAPBrowserCP} (WAP Browser Connectivity Parameters)

5 Gateway Information:

6 Address: "170.187.51.3"
7 Type of address: "IPV4"
8 Port: "9201"
9 Service: "CO-WSP", WAP session service
10 Authentication type: "HTTP BASIC"
11 Authentication id: "gateway_user1"
12 Authentication pw: "gateway_password1"
13 Gateway: http://gateway.test1.invalid
14 HomeURL: http://www.test1.invalid

15 Coding (in hex):

16 00000000 AC 58 83 3C 20 31 37 30 2E 31 38 37 2E 35 31 2E .X.< 170.187.51.
17 00000010 33 00 21 85 23 39 32 30 31 00 24 CB 19 9C 1A 67 3!.#9201.\$....g
18 00000020 61 74 65 77 61 79 5F 75 73 65 72 31 00 1B 67 61 ateway_user1..ga
19 00000030 74 65 77 61 79 5F 70 61 73 73 77 6F 72 64 31 00 teway_password1.
20 00000040 80 18 68 74 74 70 3A 2F 2F 77 77 77 2E 74 65 73 ..http://www.tes
21 00000050 74 31 2E 69 6E 76 61 6C 69 64 t1.invalid

22 5.1.32 EF_{WAPBrowserBM} (WAP Browser Bookmarks)

23 URL 1: <http://test1.bookmark1.invalid>

24 URL Information 1: "Test 1 Bookmark 1 Homepage"

25 URL 2: <http://test1.bookmark2.invalid>

26 URL Information 2: "Test 1 Bookmark 2 Homepage"

27 URL 3: <http://test1.bookmark3.invalid>

28 URL Information 3: "Test 1 Bookmark 3 Homepage"

29 Coding (in hex):

30 00000000 AD 3C 80 1E 68 74 74 70 3A 2F 2F 74 65 73 74 31 .<...http://test1

```

1 00000010 2E 62 6F 6F 6B 6D 61 72 6B 31 2E 69 6E 76 61 6C .bookmark1.inval
2 00000020 69 64 81 1A 54 65 73 74 20 31 20 42 6F 6F 6B 6D id..Test 1 Bookm
3 00000030 61 72 6B 20 31 20 48 6F 6D 65 70 61 67 65 AD 3C ark 1 Homepage.<
4 00000040 80 1E 68 74 74 70 3A 2F 2F 74 65 73 74 31 2E 62 ..http://test1.b
5 00000050 6F 6F 6B 6D 61 72 6B 32 2E 69 6E 76 61 6C 69 64 ookmark2.invalid
6 00000060 81 1A 54 65 73 74 20 31 20 42 6F 6F 6B 6D 61 72 ..Test 1 Bookmar
7 00000070 6B 20 32 20 48 6F 6D 65 70 61 67 65 AD 3C 80 1E k 2 Homepage.<..
8 00000080 68 74 74 70 3A 2F 2F 74 65 73 74 31 2E 62 6F 6F http://test1.bo
9 00000090 6B 6D 61 72 6B 33 2E 69 6E 76 61 6C 69 64 81 1A kmark3.invalid..
10 000000A0 54 65 73 74 20 31 20 42 6F 6F 6B 6D 61 72 6B 20 Test 1 Bookmark
11 000000B0 33 20 48 6F 6D 65 70 61 67 65 FF 3 Homepage.

```

12 5.1.33 EF_{MMSN} (MMS Notification)

13 For all records:

```

14 MMS Status: Free space
15 MMS Implementation Information: No implementation supported
16 MMS Notification: "FF FF ... FF" (251 bytes)
17 Extension File Record Number: "FF"

```

18

```

Byte: B1 B2 B3 B4 ... B255
Hex: '0000XXX0' 00 00 FF FF FF
(Binary)

```

19 5.1.34 EF_{MMSICP} (MMS Issuer Connectivity Parameters)

```

20 MMS Implementation Information: WAP
21 MMS Relay/Server Address: "http://mms-operator1.invalid"
22 Gateway Information:
23 Address: "170.187.51.3"
24 Type of address: "IPV4"
25 Port: "9201"
26 Service: "CO-WSP", WAP session service
27 Authentication type: "HTTP BASIC"
28 Authentication id: "gateway_user1"
29 Authentication pw: "gateway_password1"

```

30 Coding (in hex):

```

31 00000000 AB 5F 80 01 01 81 1C 68 74 74 70 3A 2F 2F 6D 6D ._.....http://mm
32 00000010 73 2D 6F 70 65 72 61 74 6F 72 31 2E 69 6E 76 61 s-operator1.inva
33 00000020 6C 69 64 83 3C 20 31 37 30 2E 31 38 37 2E 35 31 lid.< 170.187.51
34 00000030 2E 33 00 21 85 23 39 32 30 31 00 24 CB 19 9C 1A .3.!.#9201.$....
35 00000040 67 61 74 65 77 61 79 5F 75 73 65 72 31 00 1B 67 gateway_user1..g
36 00000050 61 74 65 77 61 79 5F 70 61 73 73 77 6F 72 64 31 ateway_password1
37 00000060 00 .

```

1 5.1.35 EF_{MMSUP} (MMS User Preferences)

2 Record 1:

3 MMS Implementation Information: WAP
 4 MMS User Preference Profile Name: "Test MMS User Preferences"
 5 MMS User Preference Information:
 6 X-Mms-Delivery-Report: "No"
 7 X-Mms-Read-Report: "No"
 8 X-Mms-Sender-visibility: "Yes"
 9 X-Mms-Priority: "High"
 10 X-Mms-Expiry (relative): 1104537600 seconds
 11 X-Mms-Delivery-Time (absolute): "1-Jan-2010, 12:00:00 AM UTC"

12

13 Coding (in hex):

14 00000000 80 01 01 81 19 54 65 73 74 20 4D 4D 53 20 55 73Test MMS Us
 15 00000010 65 72 20 50 72 65 66 65 72 65 6E 63 65 73 82 16 er Preferences..
 16 00000020 06 81 10 81 14 80 0F 82 08 81 04 41 D5 E8 00 07A....
 17 00000030 80 04 4B 3D 3B 00 ..K=;.

18 5.1.36 EF_{MMSConfig} (MMS Configuration)

19 Max Message Size Value: 60000 bytes
 20 Retry Times Value: 3
 21 Retry Interval Value: 20 seconds
 22 MMSC Timeout Value: 30 seconds

23

Byte: B1 B2 B3 B4 B5 B6 B7 B8
 Hex: 00 00 EA 60 03 14 00 1E

24 5.1.37 EF_{JDL} (Java Download URL)25 Java Download URL: "<http://java.xyz.invalid>"

26

Byte: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
 Hex: 68 74 74 70 3A 2F 2F 6A 61 76 61 2E

Byte: B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23 B24
 Hex: 78 79 7A 2E 69 6E 76 61 6C 69 64 00

1 5.1.38 EF_{RC} (Root Certificates)

2 Certificate Type: DER Encoded Binary X.509

3 Applications: Java

4 Certificate information: Coding is depending on the implementation of the CS and NS.

5 The format of this field is defined in [15].

6

7 **5.2 Common Initial Conditions**

8 The following initial conditions are common to and used by many test cases in this
9 document:

- 10
- The ME is connected to the NS.
 - 11 • The ME is connected to the CS.
 - 12 • The CS is configured with default values given in 5.1.

1 **6 ME TEST PROCEDURES**

2 For each test procedure the following four subsections are included:

- 3 1. Definition
4 2. Traceability
5 3. Initial Conditions
6 4. Procedure
7 5. Minimum Standard

8 Unless otherwise specified, each test case is applicable to all MEs.

9

10

11

1 **6.1 MS Identification**

2 **6.1.1 Mobile Station Identifier**

3 **6.1.1.1 Definition**

4 The ME sends the MSID for registration to the base station. The content of this MSID
5 depends on the base station's PREF_MSID_TYPE and MCC and IMSI_11_12 values. The ME
6 uses the IMSI_S, IMSI_11_12 and MCC stored in EF_{IMSI_M} and UIMID stored in EF_{RUID} to
7 create the MSID.

8 **6.1.1.2 Traceability**

9 The ME shall conform to the requirements referenced in section 2.6.1.2 of [12].

10 EF_{IMSI_M} is defined in section 3.4.2 of [1].

11 EF_{RUID} is defined in section 3.4.17 of [1].

12 **6.1.1.3 Initial Conditions**

13 Refer to section 5.2 for the common initial conditions.

14 **6.1.1.4 Procedure**

- 15 1. The tests shall be conducted in accordance with the procedures and requirements
16 defined in section 2.6.1.4 "MSID, MCC, and IMSI" of [12].
- 17 2. Verify that the fields in EF_{IMSI_M} in the CS are used instead of the fields in IMSI_M
18 (IMSI_S, IMSI_11_12, MCC, etc.) stored on the ME.
- 19 3. Verify that EF_{RUID} in the CS is used instead of ESN.

20 **6.1.1.5 Minimum Standard**

21 The ME shall comply with the requirements in steps 2 and 3 of the procedure.

22

23

24

6.1.2 MS Displaying the Roaming Indicator

This test case is only applicable to an ME that displays roaming status.

6.1.2.1 Definition

The ME reads the appropriate home SID and NID stored in $EF_{CDMAHOME}$ from the R-UIM, compares that stored information to that received by the ME in the *Sync Channel Message*, and displays the appropriate roaming indication to the user.

6.1.2.2 Traceability

The ME shall conform to the requirements specified in section 2.6.2.2.1.4 of [16].

The Home SID and NID information is stored in $EF_{CDMAHOME}$ as defined in section 3.4.8 of [1].

6.1.2.3 Initial Conditions

Refer to section 5.2 for the common initial conditions.

The values of the SID and NID fields of the *Sync Channel Message* transmitted by the NS are set to equal to those stored in $EF_{CDMAHOME}$ of the CS.

6.1.2.4 Procedure

1. Power on the ME.
2. Observe the status of any roaming indicator icon or display element on the ME.
3. Verify that the roaming indicator icon or display element of the ME indicates the ME is operating within its home system.
4. Set the values of the SID and NID fields of the *Sync Channel Message* transmitted by the NS to values other than those stored in the CS ($EF_{CDMAHOME}$).
5. Power cycle (power-off then power-on) the ME.
6. Observe the status of any roaming indicator icon or display element on the ME.
7. Verify that the roaming indicator icon or display element of the ME indicates the ME is operating in a roaming status.
8. Power down the ME.

6.1.2.5 Minimum Standard

The ME shall comply with the requirements in steps 3 and 7 of the procedure.

6.2 UIM_ID/ESN_ME Selection

6.2.1 Removable UIM_ID Usage Indicator

6.2.1.1 Definition

Removable UIM_ID Usage Indicator indicates whether the 32 bits of the UIM_ID or ESN_ME is used in the MS identification procedure. The ME uses the Removable UIM_ID Usage Indicator stored in EF_{USGIND} of the R-UIM.

6.2.1.2 Traceability

The ME shall conform to the requirements specified in sections 3.4.32 of [1] and 2.3.2.3 of [16].

6.2.1.3 Initial Conditions

Refer to section 5.2 for the common initial conditions.

Initial conditions A:

In addition, the NS shall select ESN as PEF_MSID_TYPE.

Initial conditions B:

In addition, the UIM_ID Usage Indicator shall be set to '0' on the CS. The NS shall select ESN as PEF_MSID_TYPE.

EF_{USGIND} (UIM_ID/SF_EUMID Usage Indicator)

UIM_ID usage indicator: ESN_ME is used for CAVE authentication and MS identification

SF_EUMID usage indicator: MEID is used for MS identification

B1

00

6.2.1.4 Procedure

1. Power on the ME.
2. Initiate a mobile station originated call.
3. Perform the following for different initial conditions:
 - A. Verify that the ME uses the UIM_ID stored in EF_{RUIMID} to identify itself in the *Origination Message*.
 - B. Verify that the ME uses the ESN_ME stored in EF_{ESNME} to identify itself in the *Origination Message*.
4. End the call.
5. Power down the ME

1 6.2.1.5 Minimum Standard

2 The ME shall comply with the requirements in step 3 of the procedure.

3

4

1 6.2.2 ESN Management

2 This test is only applicable to an ME that is not assigned an MEID.

3 6.2.2.1 Definition

4 ESN_ME is the electronic serial number of the Mobile Equipment (ME) to which the R-UIM
5 is attached. This number is transferred to the R-UIM when the ME determines that the
6 R-UIM has been inserted.

7 6.2.2.2 Traceability

8 The ME shall conform to the requirements for ESN_ME specified in section 4.6 of [1] and
9 section 2.3.2 of [16].

10 6.2.2.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 6.2.2.4 Procedure

- 13 1. Power on the ME.
- 14 2. During the ME and R-UIM initialization process, verify that
- 15 • the ME invokes the “Store ESN_MEID_ME” command to store its ESN_ME in
16 EF_{ESNME}.
 - 17 • the new ESN_ME stored in the EF_{ESNME} matches ESN of the ME being tested.
- 18 3. Power down the ME.

19 6.2.2.5 Minimum Standard

20 The ME shall comply with the requirements in step 2 of the procedure.

21
22

1 6.2.3 MEID Management

2 This test is only applicable to an ME that is assigned an MEID.

3 6.2.3.1 Definition

4 The ME can be assigned an MEID. If an R-UIM that has service n9 “MEID support” not
5 activated is inserted into an ME assigned an MEID, the ME transfers its Pseudo-ESN to the
6 R-UIM. Otherwise, the ME transfers its MEID to the R-UIM. The MEID or Pseudo-ESN is
7 transferred to the R-UIM when the ME determines that the R-UIM has been inserted.

8 6.2.3.2 Traceability

9 The ME shall conform to the requirements for MEID specified in section 4.6 of [1] and
10 section 2.3.2 of [16].

11 6.2.3.3 Initial Conditions

12 Initial Conditions A:

13 Refer to section 5.2 for the common initial conditions.

14 Initial Conditions B:

15 Refer to section 5.2 for the common initial conditions.

16 In addition, service n9 stored in EF_{CST} is set to “not allocated” and “not activated”.

17 6.2.3.4 Procedure

18 1. Power on the ME.

19 2. Perform the following for different initial conditions:

20 A. During the ME and R-UIM initialization process, verify that the ME sends
21 the “Store ESN_MEID_ME” command (P1 = ‘01’) to store its MEID in EF_{ESNME}
22 which shall match the MEID of the ME.

23 B. During the ME and R-UIM initialization process, verify that the ME sends
24 the “Store ESN_MEID_ME” command (P1 = ‘00’) to store its Pseudo-ESN in
25 EF_{ESNME} which shall match the Pseudo-ESN of the ME.

26 3. Power down the ME.

27 6.2.3.5 Minimum Standard

28 The ME shall comply with the requirements in step 2 of the procedure.

29

30

1 6.2.4 EUIMID and MEID

2 Refer to section 2.2 “MEID, EXT_UIM_ID, MEID_ME, ESN_ME Information Records” of [14]
3 for the testing for EUIMID and MEID.

4

5

1 **6.3 Security-related commands**

2 6.3.1 SSD Update

3 6.3.1.1 Definition

4 SSD is derived from the “A-key” stored in the CS. SSD updates are initiated when the NS
5 issues the command UPDATE SSD, containing the parameter RANDSSD, to the ME. The
6 ME passes RANDSSD, RANDSeed and AUTHBS correctly to CS when the NS initiates an
7 SSD Update process.

8 6.3.1.2 Traceability

9 The ME shall conform to the requirements specified in sections 4.4.1, 4.4.2 and 4.4.3 of [1]
10 and 2.3.12.1.5 of [16].

11 6.3.1.3 Initial Conditions

12 Refer to section 5.2 for the common initial conditions.

13 Ensure that the A-key, ESN and IMSI are aligned between the ME and the NS.

14 6.3.1.4 Procedure

- 15 1. Power on the ME.
- 16 2. At the NS, initiate an SSD Update on the paging channel.
- 17 3. Verify that the ME sends a Base Station Challenge Command to CS with a
18 RANDSeed.
- 19 4. Verify that upon receipt of a Base Station Challenge Response from the CS, the ME
20 sends a *Base Station Challenge Order* to the NS with RANDBS set to the same value
21 as that received from CS.
- 22 5. Verify that the ME sends an Update SSD Command to the CS, containing the
23 parameter RANDSSD received from the *SSD Update Message*.
- 24 6. Verify that upon receipt of a *Base Station Challenge Confirmation Order* from the NS,
25 the ME sends a Confirm SSD Command to the CS with AUTHBS set to the same
26 value as that received from the *Base Station Challenge Confirmation Order*.
- 27 7. Verify that the ME sends an *SSD Update Confirmation Order* upon receipt of a
28 response from CS with '90 00', SW1= '90' and SW2='00'.
- 29 8. Modify the IMSI in the NS to a different value.
- 30 9. Repeat steps 2) through 6).
- 31 10. Verify that the ME sends an *SSD Update Rejection Order* upon receipt of response
32 from CS with '98 04', SW1= '98' and SW2='04'.
- 33 11. Power down the ME.

1 6.3.1.5 Minimum Standard

2 The ME shall comply with the requirements in steps 3, 4, 5, 6, 7 and 10 of the procedure.

3

4

1 6.3.2 Authentication Calculation for Global Challenge

2 6.3.2.1 Definition

3 The ME initiates the start of the CAVE algorithm in the R-UIM and passes AUTHR from the
4 R-UIM to the NS when the NS enables or initiates authentication.

5 6.3.2.2 Traceability

6 The ME shall conform to the requirements specified in sections 4.2.2 and 4.4.4 of [1] and
7 2.1.1.1.2.1 of [17].

8 6.3.2.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 6.3.2.4 Procedure

- 11 1. Power on the ME.
- 12 2. At the NS, enable global challenge.
- 13 3. Originate a voice call from the ME.
- 14 4. Verify that the ME sends a "Run CAVE" Command with RANDTYPE set to
15 '00000000' and RAND to CS.
- 16 5. Upon receipt of SW '9F 03', verify that the ME sends a "Get Response" Command.
- 17 6. Upon receipt of the AUTHR, verify that AUTHR is included in the *Origination*
18 *Message*.
- 19 7. Verify the audio traffic in both directions.
- 20 8. Power off the ME.

21 6.3.2.5 Minimum Standard

22 The ME shall comply with the requirements in steps 4, 5, 6 and 7 of the procedure.

23

24

1 6.3.3 Unique Challenge While the Mobile Station is in Idle State

2 6.3.3.1 Definition

3 The CAVE function is run in the R-UIM to calculate AUTHU when the ME sends Run CAVE
4 Command.

5 6.3.3.2 Traceability

6 The ME shall conform to the requirements specified in sections 4.2.2 and 4.4.4 of [1] and
7 2.3.12.1.4 of [16].

8 6.3.3.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 6.3.3.4 Procedure

- 11 1. Power on the ME.
- 12 2. Enable authentication within the NS.
- 13 3. Originate a voice call from the ME.
- 14 4. Instruct the NS to send an *Authentication Challenge Message*.
- 15 5. Verify that the ME sends a "Run CAVE" Command with RANDTYPE set to
16 '00000001' and RANDU to CS.
- 17 6. Upon receipt of SW '9F 03', verify that ME sends a "Get Response" Command.
- 18 7. Upon receiving the AUTHU, verify that AUTHU is included in the *Authentication*
19 *Challenge Response Message* with AUTHU same as sent from CS.
- 20 8. Verify the audio traffic in both directions.
- 21 9. Power off the ME.

22 6.3.3.5 Minimum Standard

23 The ME shall comply with the requirements in steps 5, 6, 7 and 8 of the procedure.
24
25

1 6.3.4 Unique Challenge While the Mobile Station is in Mobile Station Control on the
2 Traffic Channel State

3 6.3.4.1 Definition

4 The CAVE function is executed within the R-UIM to calculate AUTHU when the ME sends
5 the “Run CAVE” Command with RANDU when the mobile station is in the *Mobile Station*
6 *Control on the Traffic Channel State*.

7 6.3.4.2 Traceability

8 The ME shall conform to the requirements specified in sections 4.2.2 and 4.4.4 of [1] and
9 2.3.12.1.4 of [16].

10 6.3.4.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 6.3.4.4 Procedure

- 13 1. Power on the ME
- 14 2. At the NS, enable authentication.
- 15 3. Originate a voice call from the ME.
- 16 4. Verify the audio traffic in both directions.
- 17 5. While the call is in progress, instruct the NS to send an *Authentication Challenge*
18 *Message*.
- 19 6. Verify that the ME sends a “Run CAVE” Command with RANDTYPE set to
20 ‘00000001’ and RANDU to CS.
- 21 7. Upon receipt of SW ‘9F 03’, verify that ME sends a Get Response Command.
- 22 8. Upon receipt of AUTHU from CS, verify that the ME sends an *Authentication*
23 *Challenge Response Message* with AUTHU same as sent from CS.
- 24 9. Power off the ME.

25 6.3.4.5 Minimum Standard

26 The ME shall comply with the requirements in steps 4, 6, 7 and 8 of the procedure.

27

28

1 6.3.5 Generate Key/VPM

2 6.3.5.1 Definition

3 The CAVE function is run in the R-UIM to generate the encryption key/VPM when the ME
4 sends a “Generate Key/VPM” command.

5 6.3.5.2 Traceability

6 The ME shall conform to the requirements specified in sections 4.2.2 and 4.4.5 of [1] and
7 2.3.12 of [16].

8 6.3.5.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 6.3.5.4 Procedure

- 11 1. Power on the ME.
- 12 2. At the NS, enable authentication. On the ME, enable voice privacy.
- 13 3. Originate a voice call from the ME.
- 14 4. Verify that the ME sends a “Run CAVE” Command with the following: RANDTYPE is
15 set to ‘00000000’, Bit 4 of Process_Control is set to ‘1’ and a RAND.
- 16 5. Upon receipt of SW ‘9F 03’, verify that the ME sends a “Get Response” Command.
- 17 6. Upon receiving the AUTHR, verify that AUTHR is included in the *Origination*
18 *Message*.
- 19 7. Verify that the ME sends a “Generate Key/VPM” command to the CS.
- 20 8. Power off the ME.

21 6.3.5.5 Minimum Standard

22 The ME shall comply with the requirements in steps 4, 5, 6 and 7 of the procedure.
23

24 6.3.6 Authentication

25 The ME shall conform to the test requirements for mobile stations defined in section 7
26 “Authentication” of [12].

27 Refer to section 5.2 for the common initial conditions.

28 The test procedures defined in section 7 “Authentication” of [12] are used.

29 The minimum standard defined in section 7.1.1.5 of [12] is used.
30

1 **6.4 Reserved**

2 **6.5 OTASP/OTAPA Functionality**

3 The tests in this section are only applicable to an ME that supports OTASP/OTAPA.

4 6.5.1 PRL Download

5 This test is only applicable to an ME that supports SSPR_P_REV=1.

6 6.5.1.1 Definition

7 The ME initiates an OTASP call, downloads a PRL, and correctly stores PRL in EF_{PRL} of the
8 R-UIM.

9 6.5.1.2 Traceability

10 The ME shall conform to the requirements specified in sections 4.5.8 of [1] and 3.5.1.9 of
11 [18].

12 6.5.1.3 Initial Conditions

13 Refer to the section 5.2 for the common initial conditions.

14 The size of the PRL downloaded to the mobile station shall be 4096 octets or
15 “MAX_PRL_LIST_SIZE for EF_{PRL}” octets, whichever is smaller.

16 6.5.1.4 Procedure

- 17 1. The test shall be conducted in accordance with the procedures defined in section 2.6.5
18 “SSPR Download Processing – Operation Successful” of [13].
- 19 2. Verify that the ME updates EF_{PRL} with the PRL downloaded from the NS.

20 6.5.1.5 Minimum Standard

21 The ME shall comply with the requirements in step 2 of the procedure.

22

23

1 6.5.2 OTASP/OTAPA Commands

2 6.5.2.1 Definition

3 The ME maps OTASP/OTAPA messages sent from the NS correctly to the OTASP/OTAPA
4 commands to R-UIM and maps responses from R-UIM to OTASP/OTAPA messages (except
5 for the PRL and EPRL download tests which are specified in sections 6.5.1 and 6.5.3).

6 6.5.2.2 Traceability

7 The ME shall conform to the requirements specified in sections 4.3.2 and 4.5 of [1] and
8 3.5.1 of [18].

9 6.5.2.3 Initial Conditions

10 Refer to the section 5.2 for the common initial conditions.

11 6.5.2.4 Procedure

- 12 1. The test shall be conducted in accordance with the procedures defined in [13].
13 2. Verify that the ME correctly maps the OTASP/OTAPA messages to corresponding
14 commands and maps responses from R-UIM to OTASP/OTAPA messages.

15 6.5.2.5 Minimum Standard

16 The ME shall comply with the requirements in step 2 of the procedure.
17
18

1 6.5.3 EPRL Download

2 This test is only applicable to an ME that supports SSPR_P_REV=3.

3 6.5.3.1 Definition

4 The ME initiates an OTASP call, downloads an EPRL, and correctly stores the EPRL in
5 EF_{EPRL} of the R-UIM.

6 6.5.3.2 Traceability

7 The ME shall conform to the requirements specified in sections 4.5.8 of [1] and 3.5.1.9 of
8 [18].

9 6.5.3.3 Initial Conditions

10 Refer to the section 5.2 for the common initial conditions.

11 The size of the EPRL downloaded to the mobile station shall be 4096 octets or
12 "MAX_PRL_LIST_SIZE for EF_{EPRL} " octets, whichever is smaller.

13 6.5.3.4 Procedure

14 1. The test shall be conducted in accordance with the procedures defined in section 2.6.5
15 "SSPR Download Processing – Operation Successful" of [13].

16 2. Verify that the ME updates EF_{EPRL} with the EPRL downloaded from the NS.

17 6.5.3.5 Minimum Standard

18 The ME shall comply with the requirements in step 2 of the procedure.

19 **6.6 Reserved**

20 **6.7 Reserved**

21 **6.8 Reserved**

22 **6.9 Reserved**

23 **6.10Reserved**

24 **6.11Exchange Protocol Tests**

25 The ME shall conform to the test requirements and procedures specified in section 27.11 of
26 [10].
27
28

1 **6.12 Evaluation of Directory Characteristics**

2 6.12.1 Operating Speed in Authentication Procedure

3 6.12.1.1 Definition

4 Authentication is performed in a cdma2000®¹ network on an R-UIM enabled mobile station
5 by the ME sending a random number received from the network to the R-UIM. The R-UIM
6 then performs a calculation on the random number, and sends the result to the network for
7 verification.

8 6.12.1.2 Traceability

9 If bit b2 of the file characteristics is set to 1, the ME shall provide a clock frequency of at
10 least 13/4 MHz to enable the R-UIM to run the authentication process in the required time.
11 See section 5.4 of [2].

12 6.12.1.3 Initial Conditions

13 The ME is powered on and connected to the CS with bit b2 of the file characteristics set to
14 '1'.

15 6.12.1.4 Procedure

- 16 1. The test shall be conducted in accordance with the procedures defined in section 7.9
17 "Authentication Upon Originations" of [12].
- 18 2. Verify that the frequency of the clock is at least 13/4 MHz during the authentication
19 procedure if bit b2 of the file characteristics is set to 1.

20 6.12.1.5 Minimum Standard

21 The ME shall comply with the requirements in step 2 of the procedure.
22

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.

1 6.12.2 Clock Stop

2 6.12.2.1 Definition

3 The ME may switch off the clock signal to the R-UIM if the R-UIM indicates that it supports
4 this feature.

5 6.12.2.2 Traceability

6 The ME shall not stop the clock, unless the requirements indicated in byte 1 of the file
7 characteristics are met. See section 5.2 of [2].

8 The ME shall wait at least 860 clock cycles after having received the last character
9 including the minimum guard time (2 elementary time units [etu]) of the response before
10 switching off the clock. The ME shall wait at least 744 clock cycles before it sends the first
11 command after having restarted the clock. See section 6.6 of [19].

12 6.12.2.3 Initial Conditions

13 Refer to section 5.2 for the common initial conditions. CHV1 is enabled.

14 6.12.2.4 Procedure

15 1. The CS is used with the file characteristics bits set as follows:

16	Bit b1	Bit b3	Bit b4
17	0	0	0

18 2. The ME is powered on. When the ME is in mode CHV1 check, 10 seconds shall elapse
19 before the CHV1 is entered.

20 3. Verify that the ME does not switch off the clock.

21 4. The ME is powered off, and the CS is used with the file characteristics bits set as
22 follows:

23	Bit b1	Bit b3	Bit b4
24	0	1	0

25 5. The ME is powered on. When the ME is in mode CHV1 check, 10 seconds shall elapse
26 before the CHV1 is entered.

27 6. Verify that the ME

- 28 • Does not switch off the clock, unless at high level.
- 29 • Does not switch off the clock until at least 1,860 clock cycles after having
30 received the last character of the response including the minimum guard
31 time (2 etu).
- 32 • Waits at least 744 clock cycles before it sends the first command after having
33 restarted the clock.

1 7. The ME is powered off, and the CS is used with the file characteristics bits set as
2 follows:

3

4	Bit b1	Bit b3	Bit b4
5	0	0	1

6 8. The ME is powered on. When the ME is in mode CHV1 check, 10 seconds shall elapse
7 before the CHV1 is entered.

8 9. Verify that the ME

- 9 • Does not switch off the clock, unless at low level.
- 10 • Does not switch off the clock until at least 1,860 clock cycles after having
11 received the last character of the response including the minimum guard
12 time (2 etu).
- 13 • Waits at least 744 clock cycles before it sends the first command after having
14 restarted the clock.

15 10. The ME is powered off, and the CS is used with the file characteristics bits set as
16 follows:

17

17	Bit b1	Bit b3	Bit b4
18	1	0	0

19 11. The ME is powered on. When the ME is in mode CHV1 check, 10 seconds shall elapse
20 before the CHV1 is entered.

21 12. Verify that the ME

- 22 • Does not switch off the clock until at least 1,860 clock cycles after having
23 received the last character of the response including the minimum guard
24 time (2 etu).
- 25 • Waits at least 744 clock cycles before it sends the first command after having
26 restarted the clock.

27 6.12.2.5 Minimum Standard

28 The ME shall comply with the requirements in steps 2, 3, 5, 6, 8, 9, 11 and 12 of the
29 procedure.

30

31 6.12.3 Reserved

32

33 **6.13 Mechanical Tests**

34 The ME shall conform to the requirements specified in section 27.13 of [10].

35

1 **6.14 Secret Code Usage**

2 For the test cases in this section, refer to section 5.2 for the common initial conditions.

3 In addition, the CS shall be configured with the following:

4 EF_{CST} (CDMA Service Table)

5 (Different from the default CDMA Service Table Service defined in section 5.1):

6 n1 : CHV disable function is not activated to enforce authentication via CHV entry.

7 **6.14.1 Entry of CHV1**

8 The ME shall conform to the requirements specified in section 27.14.1 of [10].

9 **6.14.2 Change of CHV1**

10 The ME shall conform to the requirements specified in section 27.14.2 of [10].

11 **6.14.3 Disabling the CHV1**

12 **6.14.3.1 Definition**

13 Entry of the CHV1 may be disabled by the user, depending on the service table of the
14 R-UIM. It is the responsibility of the ME to check the CDMA Service Table.

15 **6.14.3.2 Traceability**

16 Disabling CHV1 is achieved through the DISABLE CHV command. If the CHV1 disable
17 function in the R-UIM service table is not allocated or activated, the ME shall not attempt
18 to disable the CHV1. See sections 2.5 and 3.4.18 of [1].

19 **6.14.3.3 Initial Conditions**

20 The ME is powered on and a correct CHV1 entered.

21 **6.14.3.4 Procedure**

- 22 1. Using the ME's user interface procedure, attempt to disable the CHV1.
- 23 2. Verify that the ME does not send a DISABLE CHV command across the R-UIM/ME
24 interface.

25 **6.14.3.5 Minimum Standard**

26 The ME shall comply with the requirements in step 2 of the procedure.

27

28 **6.14.4 UNBLOCK CHV1 Entry**

29 The ME shall conform to the requirements specified in section 27.14.4 of [10].

1 6.14.5 Entry of CHV2

2 The ME shall conform to the requirements specified in section 27.14.5 of [10].

3 6.14.6 Change of CHV2

4 The ME shall conform to the requirements specified in section 27.14.6 of [10].

5 6.14.7 UNBLOCK CHV2 Entry

6 The ME shall conform to the requirements specified in section 27.14.7 of [10].

7 6.14.8 Reserved

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1 **6.15 Abbreviated Dialing Number (ADN)**

2 6.15.1 Definition

3 Abbreviated Dialing Numbers contain subscriber number and supplementary service
4 control strings. They may also contain alpha identifiers.

5 6.15.2 Traceability

6 The ME shall be able to update and retrieve ADNs from the R-UIM and set up calls to these
7 numbers. See section 2.7 of [1].

8 6.15.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, the following EF values shall be configured:

11 EF_{ADN} (Abbreviated Dialing Number)

12 Logically:

13 At least 101 records.

14 Record 1:

15	Length of alpha identifier:	32 characters
16	Alpha identifier:	"ABCDEFGHJKLMNOPQRSTUVWXYZABCDEF"
17	Length of BCD number:	"03"
18	TON and NPI:	Telephony and Unknown
19	Dialed number:	123
20	CCI:	None
21	Ext1:	None

22 Coding for record 1:

Byte:	B1	B2	B3	...	B32	B33	B34	B35	B36	B37	B38	B39	...	B46
Hex:	41	42	43	...	46	03	81	21	F3	FF	FF	FF	...	FF

23 6.15.4 Procedure

- 24 1. The code "1234567890123456" is stored (entered) in the MS as abbreviated dialing
25 entry number 7 on the R-UIM.
- 26 2. The code "00112233" is stored (entered) in the MS as abbreviated dialing entry number
27 6 on the R-UIM.
- 28 3. The code "***21*44556677#" is stored (entered) in the MS as abbreviated dialing entry
29 number 101 on the R-UIM.
- 30 4. Retrieve data from R-UIM entry number 7 using the procedure N(N)(N)#.

- 1 5. Verify that the number "1234567890123456" is displayed.
- 2 6. Retrieve data from R-UIM entry number 6 using the procedure N(N)(N)#.
- 3 7. Verify that the number "00112233" is displayed.
- 4 8. Retrieve data from R-UIM entry number 101 using the procedure N(N)(N)#.
- 5 9. Verify that the number "***21*44556677#" (or an equivalent representation) is displayed.
- 6 10. Retrieve data from R-UIM entry number 1 using the procedure N(N)(N)#, and display the
7 alpha identifier.
- 8 11. Verify that the ME displays at least part of the alpha identifier, and sustains normal
9 operation.
- 10 12. Verify that EF_{ADN} in the CS is updated with the new codes for R-UIM entries 1, 6, 7 and
11 101.

12 6.15.5 Minimum Standard

13 The ME shall comply with the requirements in steps 5, 7, 9, 11 and 12 of the procedure.

14

15

16

1 **6.16UI Reaction to R-UIM Status Encoding**

2 The ME shall conform to the requirements specified in section 27.16 of [10].

3

1 **6.17 Electrical Tests**

2 The ME shall conform to the requirements specified in section 27.17 of [10] with the
3 following exception: the command "SELECT CDMA" shall be used in place of "SELECT
4 GSM".

5

1 **6.18 Fixed Dialing Number (FDN)**

2 The ME shall conform to the requirements specified in section 27.18 of [10] with the
3 following exceptions:

- 4 1. Appropriate cdma2000 NS settings shall be used in place of the GSM-specific settings
5 identified in [10].
- 6 2. Rehabilitation of EF_{LOCI} is not applicable.
- 7 3. EF_{CST} shall be set as the following which is different from the default CDMA Service
8 Table Service defined in section 5.1:
9 n3 : Fixed Dialing Numbers (FDN) – is activated and allocated

10

11

1 **6.19 Version Identification**

2 6.19.1 Definition

3 The version of the R-UIM is indicated in the Elementary File EF_{Revision}. This allows the ME to
4 identify the version of the R-UIM and adapt its functionality accordingly.

5 6.19.2 Traceability

6 The version of the card shall be determined as part of the initialization procedure. See
7 sections 3.4.25 and 4.11.5 of [1].

8 6.19.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 6.19.4 Procedure

- 11 1. Power on the ME.
- 12 2. Monitor the R-UIM initialization procedure using the CS.
- 13 3. Verify that the ME requests the version (EF_{Revision}) of the CS as part of the initialization
14 procedure.
- 15 4. Power off the ME.

16 6.19.5 Minimum Standard

17 The ME shall comply with the requirements in step 3 of the procedure.
18

1 **6.20R-UIM Presence Detection**

2 The ME shall conform to the requirements specified in section 27.20 of [10].

3

4 **6.21 Reserved**

5

1 **6.22 Suggested Slot Cycle Index**

2 6.22.1 Definition

3 The file EF_{SSCI} suggests a value for the ME's preferred Slot Cycle Index for CDMA operation.
 4 Since the ME may not support all the slot cycle indexes, the ME shall select the minimum,
 5 as the preferred Slot Cycle Index, between the Slot Cycle Index supported by the ME and
 6 the suggested Slot Cycle Index contained in EF_{SSCI}.

7 6.22.2 Traceability

8 The ME shall read the contents of EF_{SSCI} (Suggested Slot Cycle Index) and apply it to mobile
 9 station processing. See section 3.4.14 of [1].

10 6.22.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 Initial Conditions A:

13 In addition, EF_{SSCI} shall be set to the value '00000010'. The NS is configured such that the
 14 value of MAX_SLOT_CYCLE_INDEX within the *System Parameters Message* is set to '011'.

15 Initial Conditions B:

16 In addition, EF_{SSCI} shall be set to the value '00000010'.

17 The NS is configured such that the value of MAX_SLOT_CYCLE_INDEX within the *System*
 18 *Parameters Message* is set to '001'.

19 6.22.4 Procedure

- 20 1. Power on the ME.
- 21 2. Allow a sufficient time for the ME to complete power-up registration with the NS.
 22 Determine the value of the Slot Cycle Index used by the ME. Also note the value of
 23 the preferred Slot Cycle Index (SLOT_CYCLE_INDEX) reported by the ME in the
 24 *Registration Message*.
- 25 3. Perform the following for different initial conditions:
 - 26 A. Verify that ME sends a *Registration Message* to the NS with a preferred Slot
 27 Cycle Index (SLOT_CYCLE_INDEX) value of '010'. Similarly, the ME shall be
 28 operating using a value of '010' for the Slot Cycle Index.
 - 29 B. Verify that ME sends a *Registration Message* to the NS with a preferred Slot
 30 Cycle Index (SLOT_CYCLE_INDEX) value of '010'. The ME shall also,
 31 however, be operating using a value of '001' for the Slot Cycle Index.
- 32 4. Power down the ME.

33 6.22.5 Minimum Standard

34 The ME shall comply with the requirements in step 3 of the procedure.
 35

1 **6.23 Service Provider Name**

2 This test is only applicable to an ME that supports the display of service provider name.

3 6.23.1 Definition

4 During the ME and R-UIM initialization procedure, the ME reads the contents of EF_{SPN} and
5 displays the corresponding information to the mobile station user.

6 6.23.2 Traceability

7 If present, the device should display the operator name provisioned in EF_{SPN} on the idle
8 screen. See section 3.4.31 of [1].

9 6.23.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 6.23.4 Procedure

- 12 1. Power on the ME.
- 13 2. Wait for the ME to register with the NS.
- 14 3. Verify that the ME reads and displays the contents of EF_{SPN} on the CS.
- 15 4. Power down the ME.

16 6.23.5 Minimum Standard

17 The ME shall comply with the requirements in step 3 of the procedure.

18

19

6.24 CDMA Service Table

6.24.1.1 Definition

The CDMA Service Table in the R-UIM indicates which services are allocated, and whether, if allocated, the service is activated. If a service is not allocated or not activated in the R-UIM, the ME shall not select this service.

6.24.1.2 Traceability

The ME shall read the contents of EF_{CST} from the CS and shall provide user access and/or service to the functions and services allocated and activated within EF_{CST}. See section 3.4.18 of [1].

6.24.1.3 Initial Conditions

Refer to section 5.2 for the common initial conditions.

Initial Conditions A:

In addition, the settings of EF_{CST} shall indicate “service allocated” and “service not activated” for the following services: SMS (n4), FDN (n3), ADN (n2), and CHV disable (n1).

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex:	55	FF	C3	FF	CF	0F	FF	3C	00	CC	3F	00

In addition, the NS is configured to accept SMS messages from the MS.

Initial Conditions B:

In addition, the settings of EF_{CST} shall indicate “service allocated” and “service activated” for the following services: SMS (n4), FDN (n3), ADN (n2), and CHV disable (n1).

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex:	FF	FF	C3	FF	CF	0F	FF	3C	00	CC	3F	00

In addition, the NS is configured to accept SMS messages from the MS.

6.24.1.4 Procedure

1. Power on the ME.
2. Use a UI dependent method to check if:
 - SMS services can be used
 - FDNs are available
 - ADNs are available
 - The card holder verification (CHV) can be disabled
2. Perform the following for different initial conditions:
 - A. Verify that the listed services and functions are not operational.

1 B. Verify that the listed services and functions are operational.

2 3. Power off the ME.

3 6.24.1.5 Minimum Standard

4 The ME shall comply with the requirements in step 2.

5

6

1 **6.25 Application Labels**

2 6.25.1 Application Labels Present on R-UIM

3 6.25.1.1 Definition

4 Application Labels stored in R-UIM allow the operators to customize the UI display of the
5 text labels for the applications, such as MMS and WAP.

6 6.25.1.2 Traceability

7 If an application label has been provisioned for a particular application in EF_{AppLabels}, the
8 device's user interface shall display this text label with the associated icon or menu item
9 used to launch that application. See section 3.4.84 of [1].

10 6.25.1.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 6.25.1.4 Procedure

- 13 1. Power on the ME.
- 14 2. Navigate to the application menus or icons using the ME's UI.
- 15 3. Observe the application labels displayed.
- 16 4. Verify that the ME displays the Application Labels as configured in EF_{AppLabels}. The
17 application label for MMS shall be "ABCD" and the application label for WAP Browser
18 shall be "EFG".
- 19 5. Power down the ME.

20 6.25.1.5 Minimum Standard

21 The ME shall comply with the requirements in step 4 of the procedure.

22
23

1 6.25.2 Application Labels Not Present on R-UIM

2 6.25.2.1 Definition

3 Application Labels on the R-UIM might not be present so that the ME needs to display the
 4 default labels stored in the ME. The ME displays the handset vendor-defined labels when
 5 the R-UIM does not contain the application labels.

6 6.25.2.2 Traceability

7 If an application label has not been provisioned for a particular application in EF_{AppLabels},
 8 the ME shall display the handset vendor-defined labels. See section 3.4.84 of [1].

9 6.25.2.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 Initial Conditions A:

12 EF_{AppLabels} (Application Labels)

13 File ID: 3F00/7F25/6F92

14 Character Encoding: 7-bit ASCII

15 Language Indicator: 1 (English)

16 Application Labels Present: None

Coding	00	01	00	00	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

17
 18 Initial Conditions B:

19 EF_{AppLabels} is not present on the CS.

20 6.25.2.4 Procedure

21 The following process applies to all initial conditions:

- 1 1. Power on the ME.
- 2 2. Navigate to the application menus or icons using the ME's UI.
- 3 3. Observe the display of the application labels on the ME.
- 4 4. Verify that ME displays the handset vendor-defined labels.
- 5 5. Power down the ME.

6 6.25.2.5 Minimum Standard

7 The ME shall comply with the requirements in step 4 of the procedure.

8

9

1 **6.26 Device Model Information**

2 6.26.1 Definition

3 The ME writes the ME's model information to the R-UIM so that the applications residing in
4 the R-UIM can use that information for various purposes.

5 6.26.2 Traceability

6 The ME shall be capable of writing the ME's model information to EF_{Model} in the R-UIM
7 during power-up initialization. See section 3.4.85 of [1].

8 6.26.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 6.26.4 Procedure

- 11 1. Power on the ME.
- 12 2. Wait until the ME has finished initialization.
- 13 3. Verify that EF_{Model} on the R-UIM has these fields filled correctly based on ME's
14 model information using the coding definitions in [1]:
 - 15 • Character Encoding
 - 16 • Language Indicator
 - 17 • Model Information
 - 18 • Manufacturer Name
 - 19 • Software Version Information
- 20 4. Power down the ME.

21 6.26.5 Minimum Standard

22 The ME shall comply with the requirements in step 3 of the procedure.
23

1 **6.27 Emergency Numbers**

2 6.27.1 Definition

3 The R-UIM contains emergency call numbers so that the user can make emergency calls
4 using the emergency numbers stored in the R-UIM.

5 6.27.2 Traceability

6 The ME shall allow the user to dial the emergency call codes stored in the R-UIM. See
7 section 3.4.37 of [1].

8 6.27.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, the NS is configured to accept emergency voice calls.

11 6.27.4 Procedure

- 12 1. Power on the ME.
- 13 2. Verify that the ME reads the emergency numbers stored in EF_{ECC} .
- 14 3. Select the emergency number "111" using the ME's UI.
- 15 4. Dial "111".
- 16 5. Verify that the ME displays that it is making an emergency call using "111" from
17 EF_{ECC} in the CS.
- 18 6. Wait until call is connected.
- 19 7. Verify that the ME has successfully established an emergency voice call.
- 20 8. End call.
- 21 9. Select the emergency number "222" using the ME's UI.
- 22 10. Dial "222".
- 23 11. Verify that the ME displays that it is making an emergency call using "222" from
24 EF_{ECC} in the CS.
- 25 12. Wait until call is connected.
- 26 13. Verify that the ME has successfully established an emergency voice call.
- 27 14. End call.
- 28 15. Power down the ME.

29 6.27.5 Minimum Standard

30 The ME shall comply with the requirements in steps 2, 5, 7, 11 and 13 of the procedure.

31
32

1 **6.28 SMS Capabilities**

2 The tests in this section are only applicable to an ME supporting the SMS feature.

3 6.28.1 SMS Retries

4 6.28.1.1 Definition

5 The R-UIM contains SMS retry configurations for the ME to use for retrying MO SMS
6 messages.

7 6.28.1.2 Traceability

8 The ME shall be capable of performing MO SMS retry using the SMS retry period and SMS
9 retry interval parameters in EF_{SMSCAP} of the R-UIM. See section 3.4.87 of [1].

10 6.28.1.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 In addition, the NS is configured so that it will respond with an SMS Acknowledgement
13 Message (Error Class = 2 “temporary error” and Cause Code = 0 “unspecified”) to MO SMS
14 messages from the ME.

15 Coding of elementary files in the CS is defined in 5.1, with the addition of:

16 EF_{SMSCAP} (SMS Capabilities):

17 SMS Retry Period: 60 seconds

18 SMS Retry Interval: 8 seconds

19 SMS Flags:

20 Send On Access: True

21 Send on Traffic: True

22 Send as Standard EMS: True

23 SMS Preferred Service Option: SO 6

24 Byte: B1 B2 B3 B4

Hex: 3C 08 07 01

25
26 EF_{SMS} (Short Messages):

27 Record 1:

28 Logically (Main parameters only):

29 Status: MS originating message; message to be sent, Message
30 protection disabled

31 MSG_LEN: 35 bytes
32

SMS Transport Layer Message:
 SMS_MSG_TYPE: SMS Point-to-Point
 Destination Address: +0123456789
 Message Type: SMS-Submit
 User Data: "Retry"

Coding:	07	23	00	00	02	10	02	04	07	02	A8	48	D1	59	E2	40
	08	13	00	03	20	00	00	01	06	10	2D	2C	BD	39	79	07
	01	05	08	01	80	00	..	..	00							

All other records are empty.

6.28.1.4 Procedure

1. Power on the ME.
2. Send the SMS message stored on the R-UIM from the ME.
3. Wait for 65 seconds.
4. Verify that the ME retries to send the SMS for up to 60 to 62 seconds after the first Temporary Network Error was been sent by the NS with an interval of 8 to 10 seconds between the retries as configured in EF_{SMSCAP}.
5. Power down the ME.

6.28.1.5 Minimum Standard

The ME shall comply with the requirements in steps 4 of the procedure.

1 6.28.2 Sending SMS on Access Channel

2 6.28.2.1 Definition

3 The R-UIM contains SMS access channel configuration for the ME to use when the ME
4 sends SMS messages.

5 6.28.2.2 Traceability

6 The ME shall send MO SMS over access channel if the access channel flag in EF_{SMSCAP} is
7 enabled and the message size fits in the access channel. See section 3.4.87 of [1].

8 6.28.2.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, the following values are used:

11 EF_{SMSCAP} (SMS Capabilities):

12 Logically:

13 SMS Retry Period: 60 seconds
14 SMS Retry Interval: 7 seconds
15 SMS Flags:
16 Send On Access: True
17 Send on Traffic: True
18 Send as Standard EMS: True
19 SMS Preferred Service Option: Service Option 6

20
21 Byte: B1 B2 B3 B4
Hex: 3C 07 07 01

22 EF_{SMS} (Short Messages):

23 Record 1:

24 Logically (Main parameters only):

25 Status: MS originating message; message to be sent, Message protection
26 disabled
27 MSG_LEN: 36 bytes
28 SMS Transport Layer Message:
29 SMS_MSG_TYPE: SMS Point-to-Point
30 Destination Address: +0123456789
31 Message Type: SMS-Submit
32 User Data: "Access"

33

Coding:	07	24	00	00	02	10	02	04	07	02	A8	48	D1	59	E2	40
	08	14	00	03	20	00	00	01	07	10	34	1C	78	F2	F3	E6
	07	01	05	08	01	80	00	..	..	00						

34 All other records are empty.

1 The NS is configured so that it will accept MO SMS over access channel.

2 6.28.2.4 Procedure

- 3 1. Power on the ME.
- 4 2. Wait until the ME has initialized.
- 5 3. Verify that the ME reads EF_{SMSCAP} .
- 6 4. Send the SMS message stored on the R-UIM.
- 7 5. Verify that the NS receives an SMS with character string "Access" over the access
- 8 channel.
- 9 6. Power down the ME.

10 6.28.2.5 Minimum Standard

11 The ME shall comply with the requirements in steps 3 and 5 of the procedure.

12

1 6.28.3 Sending SMS on Traffic Channel

2 6.28.3.1 Definition

3 The R-UIM contains SMS traffic channel configuration for the ME to use when sending MO
4 SMS messages.

5 6.28.3.2 Traceability

6 The ME shall support MO SMS over traffic channel based on the SMS traffic channel
7 configuration in EF_{SMSCAP} of the R-UIM. See section 3.4.87 of [1].

8 6.28.3.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, the following values are used:

11 Initial Conditions A:

12 EF_{SMSCAP} (SMS Capabilities):

13 Logically:

14 SMS Retry Period: 60 seconds
15 SMS Retry Interval: 6 seconds
16 SMS Flags:
17 Send On Access: False
18 Send on Traffic: True
19 Send as Standard EMS: True
20 SMS Preferred Service Option: Service Option 6

21

Byte:	B1	B2	B3	B4
Hex:	3C	06	06	01

22

23 EF_{SMS} (Short Messages):

24 Record 1:

25 Logically (Main parameters only):

26

27 Status: MS originating message; message to be sent, Message protection disabled

28 MSG_LEN: 33 bytes

29 SMS Transport Layer Message:

30 SMS_MSG_TYPE: SMS Point-to-Point

31 Destination Address: +0123456789

32 Message Type: SMS-Submit

33 User Data: "T6"

34

Coding:	07	21	00	00	02	10	02	04	07	02	A8	48	D1	59	E2	40
	08	11	00	03	20	00	00	01	04	10	15	46	C0	07	01	05
	08	01	80	00	..	..	00									

1 All other records are empty.

2 The NS is configured so that it will accept traffic channel requests with SO 6 and SO 14.

3

4 Initial Conditions B:

5 EF_{SMSCAP} (SMS Capabilities):

6 Logically:

7 SMS Retry Period: 60 seconds
 8 SMS Retry Interval: 6 seconds
 9 SMS Flags:
 10 Send On Access: False
 11 Send on Traffic: True
 12 Send as Standard EMS: True
 13 SMS Preferred Service Option: Service Option 14

14

Byte: B1 B2 B3 B4
 Hex: 3C 06 06 02

15

16 EF_{SMS} (Short Messages):

17 Record 1:

18 Logically (Main parameters only):

19 Status: MS originating message; message to be sent, Message protection
 20 disabled
 21 MSG_LEN: 34 bytes
 22 SMS Transport Layer Message:
 23 SMS_MSG_TYPE: SMS Point-to-Point
 24 Destination Address: +0123456789
 25 Message Type: SMS-Submit
 26 User Data: "T14"

27

Coding:	07	22	00	00	02	10	02	04	07	02	A8	48	D1	59	E2	40
	08	12	00	03	20	00	00	01	05	10	1D	46	2D	00	07	01
	05	08	01	80	00	..	..	00								

28 All other records shall be empty.

29

30 6.28.3.4 Procedure

31 This procedure shall be performed for each set of Initial Conditions.

- 32 1. Power on the ME.
- 33 2. Wait until the ME has initialized.

- 1 3. Send the SMS message stored on the R-UIM.
- 2 4. Perform the following for different initial conditions:
 - 3 A. Verify that the NS receives an SMS with the character string "T6" over traffic
4 channel with SO 6.
 - 5 B. Verify that the NS receives an SMS with the character string "T14" over
6 traffic channel with SO 14.
- 7 5. Power down the ME.

8 6.28.3.5 Minimum Standard

9 The ME shall comply with the requirements in step 4 of the procedure.

10

1 6.28.4 Sending EMS messages

2 This test is only applicable to an ME supporting the SMS and EMS features.

3 6.28.4.1 Definition

4 The R-UIM contains EMS configuration for the ME to use when sending MO EMS
5 messages.

6 6.28.4.2 Traceability

7 The ME shall be capable of sending EMS messages per configuration in EF_{SMSCAP} of the
8 R-UIM. See section 3.4.87 of [1].

9 6.28.4.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 Initial Conditions A:

12 In addition, the file EF_{SMSCAP} is configured as follows:

13 EF_{SMSCAP} (SMS Capabilities):

14 Logically:

15 SMS Retry Period: 60 seconds
16 SMS Retry Interval: 6 seconds
17 SMS Flags:
18 Send On Access: True
19 Send on Traffic: True
20 Send as Standard EMS: True
21 SMS Preferred Service Option: Service Option 6

22
Byte: B1 B2 B3 B4
Hex: 3C 06 07 01

23 The NS is configured so that it will accept EMS messages from the ME.

24 Initial Conditions B:

25 In addition, the file EF_{SMSCAP} is configured as follows:

26 EF_{SMSCAP} (SMS Capabilities):

27 Logically:

28 SMS Retry Period: 60 seconds
29 SMS Retry Interval: 6 seconds
30 SMS Flags:
31 Send On Access: True
32 Send on Traffic: True
33 Send as Standard EMS: False
34 SMS Preferred Service Option: Service Option 06

Byte:	B1	B2	B3	B4
Hex:	3C	06	03	01

1 The NS is configured so that it will not accept EMS messages from the ME.

2 6.28.4.4 Procedure

3 This procedure shall be performed for each set of Initial Conditions.

- 4 1. Power on the ME.
- 5 2. Send a long SMS message which is longer than 160 bytes from the ME.
- 6 3. Perform the following for different initial conditions:
 - 7 A. Verify that the NS receives long SMS segments using the standard EMS
 - 8 (enabled in EF_{SMSCAP} of the R-UIM).
 - 9 B. Verify that the NS does not receive long SMS segments using the standard
 - 10 EMS (disabled in EF_{SMSCAP} of the R-UIM).
- 11 4. Power down the ME.

12 6.28.4.5 Minimum Standard

13 The ME shall comply with the requirements in step 3 of the procedure.

14

1 **6.29 SMS Messages on R-UIM**

2 The tests in this section are only applicable to an ME supporting the SMS feature.

3 If the ME supports both automatic storing and manual storing of SMS on the R-UIM, either
4 test case 6.29.1 or 6.29.2 can be executed for verifying that the ME is capable of writing
5 SMS messages to the R-UIM.

6 6.29.1 Automatically Storing Received SMS in R-UIM

7 6.29.1.1 Definition

8 The R-UIM provides storage space for the mobile station to store received SMS messages on
9 the R-UIM.

10 6.29.1.2 Traceability

11 The ME shall be capable of automatically storing SMS messages received from the network
12 into EF_{SMS} in the R-UIM. See 3.4.27 section of [1].

13 6.29.1.3 Initial Conditions

14 Refer to section 5.2 for the common initial conditions. In addition, EF_{SMS} is empty. The NS
15 is configured with the following SMS to be sent to the ME:

16 Short message:

17 SMS_MSG_LEN: 103

18 SMS_MSG_TYPE: SMS Point-to-Point

19 Teleservice Identifier: CDMA Cellular Messaging Teleservice [CMT-95]

20 Service Category: Unknown or unspecified

21 Originating Address: +0123456789

22 Bearer Reply Option: Reply Seq 0

23 Bearer Data:

24 Message Identifier: Deliver

25 MESSAGE_ID: 0

26 Message Center Time Stamp: 2010/01/01, 12:00:00am

27 Validity Period (Absolute): 2020/01/01, 12:00:00am

28 Priority: Normal

29 Privacy: Restricted

30 Number of Messages: 0

31 Language Indicator: English

32 User Data:

1 MSG_ENCODING: 7-bit ASCII
2 User Data: "This message shall be stored on the R-UIM."

3 6.29.1.4 Procedure

- 4 1. Power on the ME.
- 5 2. Send the SMS message from the NS to the ME.
- 6 3. Wait until the ME has received the SMS.
- 7 4. Verify that EF_{SMS} contains one record with an unread SMS.
- 8 5. Use a UI dependent procedure to select the SMS and display it.
- 9 6. Verify that the ME displays the text "This message shall be stored on the R-UIM."
10 from originating address "+0123456789".
- 11 7. Power down the ME.

12 6.29.1.5 Minimum Standard

13 The ME shall comply with the requirements in step 4 and 6 of the procedure.

14

1 6.29.2 Saving SMS in R-UIM

2 6.29.2.1 Definition

3 The R-UIM provides storage space for the mobile station to save SMS messages on the
4 R-UIM.

5 6.29.2.2 Traceability

6 The ME shall be capable of saving SMS messages into EF_{SMS} in the R-UIM. See 3.4.27
7 section of [1].

8 6.29.2.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, EF_{SMS} is empty.

11 The NS is configured with the SMS defined in 6.28.1.4. This SMS is to be sent to the ME.

12 6.29.2.4 Procedure

- 13 1. Power on the ME.
- 14 2. Send the SMS message from the NS to the ME.
- 15 3. Wait until the ME has received the SMS.
- 16 4. Verify that EF_{SMS} contains one record with an unread SMS.
- 17 5. Use a UI dependent procedure to copy the received message from the ME to the CS.
- 18 6. Use a UI dependent procedure to display the message saved in the CS.
- 19 7. Verify that the ME displays the text “This message shall be stored on the R-UIM.”
20 from originating address “+0123456789”.
- 21 8. Power down the ME.

22 6.29.2.5 Minimum Standard

- 23 9. The ME shall comply with the requirements in steps 4 and 7 of the procedure.

24

1 6.29.3 Reading SMS from R-UIM

2 6.29.3.1 Definition

3 The R-UIM provides storage space for the ME to store SMS messages. The ME shall be
4 capable of allowing the user to read the SMS messages stored in the R-UIM.

5 6.29.3.2 Traceability

6 The ME shall be capable of allowing the user to read all SMS messages stored in EF_{SMS} from
7 the R-UIM. See 3.4.27 section of [1].

8 6.29.3.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, EF_{SMS} contains the following record:

11 Status: Message received by ME from network, message to be
12 read, message protection disabled

13 MS_MSG_LEN: 103

14 MS_MSG_TYPE: SMS Point-to-Point

15 PARAMETER_ID: Teleservice Identifier

16 Teleservice: CDMA Cellular Messaging Teleservice [CMT-95]

17 Service Category: Unknown or unspecified

18 Originating Address: +0123456789

19 Bearer Reply Option: Reply Seq: 0

20 Bearer data:

21 MESSAGE_TYPE: Deliver

22 MESSAGE_ID: 0

23 Message Center Time Stamp: 2010/01/01, 12:00:00 am

24 Validity Period- Absolute: 2020/01/01, 12:00:00 am

25 Priority: Normal

26 Privacy: Restricted

27 Number of Messages: 0

28 Language Indicator: English

29 User Data:

30 MSG_ENCODING: 7-bit ASCII

31 User-Data: "This message shall be read from the
32 R-UIM."

1

Coding	03	67	00	00	02	10	02	01	02	00	00	02	0D	88	85	18
	18	99	19	9A	1A	9B	1B	9C	1C	80	06	01	00	08	4A	00
	03	10	00	00	01	27	11	55	4D	1A	79	A0	DB	97	9F	3C
	39	F2	A0	E7	A3	0E	CD	88	31	65	41	CB	2E	1C	88	33
	72	DF	B5	07	4D	19	50	52	5B	56	4C	D5	C0	03	06	10
	01	01	00	00	00	04	06	20	01	01	00	00	00	08	01	00
	09	01	40	0B	01	00	0D	01	01	00	00	..	00			

2

3 6.29.3.4 Procedure

- 4 1. Power on the ME.
- 5 2. Use UI dependent procedure to read the stored message from the R-UIM.
- 6 3. Verify that the ME displays the text message “This message shall be read from the
7 R-UIM.”
- 8 4. Read the SMS messages.
- 9 5. Power down the ME.

10 6.29.3.5 Minimum Standard

11 The ME shall comply with the requirements in step 3 of the procedure.

12

1 6.29.4 Deleting SMS in R-UIM

2 6.29.4.1 Definition

3 The R-UIM provides storage space for the mobile station to store SMS messages on the R-
4 UIM. The ME shall be capable of allowing the user to delete the SMS messages stored in the
5 R-UIM.

6 6.29.4.2 Traceability

7 The ME shall be capable of allowing the user to delete selected SMS messages stored in
8 EF_{SMS} in the R-UIM. See 3.4.27 section of [1].

9 6.29.4.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 In addition, EF_{SMS} contains the following record 1:

12 Status: Message received by ME from network, message read,
13 message protection disabled

14 MS_MSG_LEN: 105

15 MS_MSG_TYPE: SMS Point-to-Point

16 PARAMETER_ID: Teleservice Identifier

17 Teleservice: CDMA Cellular Messaging Teleservice [CMT-95]

18 Service Category: Unknown or unspecified

19 Originating Address: +0123456789

20 Bearer Reply Option: Reply Seq: 0

21 Bearer data:

22 MESSAGE_TYPE: Deliver

23 MESSAGE_ID: 0

24 Message Center Time Stamp: 2010/01/01, 12:00:00 am

25 Validity Period- Absolute: 2020/01/01, 12:00:00 am

26 Priority: Normal

27 Privacy: Restricted

28 Number of Messages: 0

29 Language Indicator: English

30 User Data:

31 MSG_ENCODING: 7-bit ASCII

User-Data: "This message shall be deleted from the R-UIM."

Coding	03	69	00	00	02	10	02	01	02	00	00	02	0D	88	85	18
	18	99	19	9A	1A	9B	1B	9C	1C	80	06	01	00	08	4C	00
	03	10	00	00	01	29	11	6D	4D	1A	79	A0	DB	97	9F	3C
	39	F2	A0	E7	A3	0E	CD	88	31	65	41	93	2E	CC	BD	32
	E4	41	9B	96	FD	A8	3A	68	CA	82	92	DA	B2	66	AE	03
	06	10	01	01	00	00	00	04	06	20	01	01	00	00	00	08
	01	00	09	01	40	0B	01	00	0D	01	01	00	..	00		

6.29.4.4 Procedure

1. Power on the ME.
2. Use UI dependent procedure to select the stored message from the R-UIM.
3. Delete the SMS message with content "This message shall be deleted from the R-UIM."
4. Verify that the first byte of record 1 in EF_{SMS} is '00'.
5. Power down the ME.

6.29.4.5 Minimum Standard

The ME shall comply with the requirements in step 4 of the procedure.

1 **6.30SMS Parameters on R-UIM**

2 The tests in this section are only applicable to an ME supporting the SMS feature.

3 6.30.1 Saving SMS Parameters in R-UIM

4 6.30.1.1 Definition

5 The R-UIM provides storage space for the mobile station to save SMS parameters on the
6 R-UIM.

7 6.30.1.2 Traceability

8 The ME shall be capable of saving SMS parameters into EF_{SMSP} in the R-UIM. See 3.4.28
9 section of [1].

10 6.30.1.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 In addition, EF_{SMSP} in the CS does not have any records.

13 6.30.1.4 Procedure

- 14 1. Power on the ME.
- 15 2. Go to the menu on the ME to enter new SMS parameters.
- 16 3. Create a new record of SMS Parameters with priority set to “low”.
- 17 4. Save the new SMS parameters into the CS.
- 18 5. Verify that the ME allows the user to save new SMS parameters into record 1 in
19 EF_{SMSP}.
- 20 6. Verify that the ME sets at least the following Parameter Indicator bits to ‘1’:
21 MSG_ENCODING, Validity Period, Bearer Data.
- 22 7. Verify that the ME sets the Priority parameter in the SMS parameters of record 1 to
23 “normal”.
- 24 8. Power down the ME.

25 6.30.1.5 Minimum Standard

26 The ME shall comply with the requirements in steps 5, 6 and 7 of the procedure.

27

1 6.30.2 Reading SMS Parameters in R-UIM

2 6.30.2.1 Definition

3 The R-UIM provides storage space for the mobile station to save SMS parameters on the
4 R-UIM.

5 6.30.2.2 Traceability

6 The ME shall be capable of allowing the user to read SMS parameters in EF_{SMSP} in the
7 R-UIM. See 3.4.28 section of [1].

8 6.30.2.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 6.30.2.4 Procedure

- 11 1. Power on the ME.
- 12 2. Open the SMS parameter record on the CS using a UI dependent procedure.
- 13 3. Verify that the ME displays the SMS Priority parameter set to "Emergency".
- 14 4. Power down the ME.

15 6.30.2.5 Minimum Standard

16 The ME shall comply with the requirements in step 3 of the procedure.

17

1 6.30.3 Deleting SMS Parameters in R-UIM

2 6.30.3.1 Definition

3 The R-UIM provides storage space for the mobile station to save SMS parameters on the
4 R-UIM.

5 6.30.3.2 Traceability

6 The ME shall be capable of allowing the user to delete SMS parameters in EF_{SMSP} in the
7 R-UIM. See 3.4.28 section of [1].

8 6.30.3.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 6.30.3.4 Procedure

- 11 1. Power on the ME.
- 12 2. Open the SMS Parameter record on the CS using a UI dependent procedure.
- 13 3. Delete the SMS Parameter record.
- 14 4. Verify that the ME allows the user to delete the record in the CS.
- 15 5. Verify that the Parameter Indicators field of record 1 in EF_{SMSP} is 'FF'.
- 16 6. Power down the ME.

17 6.30.3.5 Minimum Standard

18 The ME shall comply with the requirements in steps 4 and 5 of the procedure.

19
20

1 **6.31 SMS Status on R-UIM**

2 This test is only applicable to an ME supporting SMS.

3 **6.31.1 Definition**

4 The R-UIM provides storage space for the mobile station to record the last used SMS
5 Message ID number on the R-UIM.

6 **6.31.2 Traceability**

7 The ME shall be capable of recording the last used SMS Message ID number into EF_{SMSS} in
8 the R-UIM. See 3.4.29 section of [1].

9 **6.31.3 Initial Conditions**

10 Refer to section 5.2 for the common initial conditions.

11 In addition:

12 EF_{SMSS} (SMS Status):

13 MESSAGE_ID: 1000

14 **6.31.4 Procedure**

- 15 1. Power on the ME.
16 2. Use a UI dependent procedure to send a message from the ME to the NS.
17 3. Wait until the ME has successfully sent the SMS.
18 4. Verify that the ME sends a message to the network using the Message ID value as
19 stored in R-UIM.
20 5. Verify that the Message ID value in EF_{SMSS} is incremented by 1.
21 6. Power down the ME.

22 **6.31.5 Minimum Standard**

23 The ME shall comply with the requirements in step 5 of the procedure.
24
25

1 **6.32 Simple IP**

2 The tests in this section are only applicable to an ME supporting the SimpleIP feature.

3 6.32.1 PAP and CHAP Authentication

4 6.32.1.1 Definition

5 The R-UIM contains SimpleIP PAP and CHAP configurations that the ME shall use to set up
6 PPP sessions.

7 6.32.1.2 Traceability

8 The ME shall be capable of setting up data sessions using PAP and CHAP authentication
9 feature in the R-UIM. See sections 3.4.42, 3.4.46, 3.5.1, 4.7, and 4.8.1 of [1].

10 6.32.1.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 Initial Conditions A:

13 Configure the NS so that it will have the same PAP and CHAP parameters as in the R-UIM
14 and will propose CHAP authentication to the ME when establishing a data session.

15 Initial Conditions B:

16 Configure the NS so that it will have the same PAP and CHAP parameters as in the R-UIM
17 and will propose PAP authentication to the ME when establishing a data session.

18 6.32.1.4 Procedure

19 This procedure shall be performed for each set of Initial Conditions.

- 20 1. Power on the ME.
- 21 2. Wait for the ME to be registered by the NS.
- 22 3. Set up a data session from the ME using one of applications WAP Browser or MMS.
- 23 4. Perform the following for different initial conditions:
 - 24 A. Verify that the ME performs CHAP authentication with the NS using the
25 CHAP parameters from the R-UIM.
 - 26 B. Verify that the ME performs PAP authentication with the NS using the PAP
27 parameters from the R-UIM.
- 28 5. Tear down the data session.
- 29 6. Power down the ME.

30 6.32.1.5 Minimum Standard

31 The ME shall comply with the requirements in step 4 of the procedure.

32

1 6.32.2 Multiple User Profiles

2 This test is only applicable to an ME that supports the SimpleIP feature and also supports
 3 MMS, WAP and an application that is not MMS or WAP.

4 6.32.2.1 Definition

5 The R-UIM contains multiple SimpleIP user profiles that the ME shall use to set up data
 6 sessions with a profile that is associated with a particular application.

7 6.32.2.2 Traceability

8 The ME shall be capable of setting up data sessions using the correct SimpleIP user profiles
 9 based on what applications are requesting the data sessions. See sections 3.4.42, 3.4.46,
 10 3.4.89 and 3.5.1 of [1].

11 6.32.2.3 Initial Conditions

12 Refer to section 5.2 for the common initial conditions.

13 In addition, the files EF_{SIPUPP}, EF_{SIPUPPExt}, EF_{SIPPAPSS} and EF_{SIPCHAPSS} shall be configured as
 14 follows:

15 EF_{SIPUPP} (SimpleIP User Profile Parameters)

16	NAI Entry Index:	0
17	NAI:	“abc0@xyz.com”
18	Authentication Algorithm:	PAP and CHAP
19	NAI Entry Index:	1
20	NAI:	“abc1@xyz.com”
21	Authentication Algorithm:	PAP and CHAP
22	NAI Entry Index:	2
23	NAI:	“abc2@xyz.com”
24	Authentication Algorithm:	PAP and CHAP

25

26 EF_{SIPUPPExt} (SimpleIP User Profile Parameters Extension)

27	NAI Entry Index:	0
28	Applications:	Java, Terminal, Reserved for CDG, Unspecified
29	Priority:	100
30	Data Rate Mode:	High
31	Data Bearer:	Hybrid 1xEV-DO/1x
32	NAI Entry Index:	1

1 Applications: MMS
 2 Priority: 80
 3 Data Rate Mode: High
 4 Data Bearer: Hybrid 1xEV-DO/1x
 5 NAI Entry Index: 2
 6 Applications: WAP Browser
 7 Priority: 90
 8 Data Rate Mode: High
 9 Data Bearer: Hybrid 1xEV-DO/1x

10

11 EF_{SIPPAPSS} (Simple IP PAP SS)

12 NAI Entry Index: 0
 13 PAP SS: "PAP SS 0"
 14 NAI Entry Index: 1
 15 PAP SS: "PAP SS 1"
 16 NAI Entry Index: 2
 17 PAP SS: "PAP SS 2"

18

19 Simple IP CHAP SS:

20 NAI Entry Index: 0
 21 CHAP SS: "CHAP SS 0"
 22 NAI Entry Index: 1
 23 CHAP SS: "CHAP SS 1"
 24 NAI Entry Index: 2
 25 CHAP SS: "CHAP SS 2"

26

27 6.32.2.4 Procedure

- 28 1. Power on the ME.
 29 2. Set up a data session from the ME using the MMS application.
 30 3. Verify that the ME sets up a data session using the user profile in the R-UIM with
 31 the MMS application bit turned on.
 32 4. Tear down the data session.

- 1 5. Set up a data session from the ME using the WAP Browser application.
- 2 6. Verify that the ME sets up a data session using the user profile in the R-UIM with
3 the WAP Browser application bit turned on.
- 4 7. Tear down the data session.
- 5 8. Set up a data session from the ME using an application that is not MMS or WAP
6 Browser.
- 7 9. Verify that the ME sets up a data session using the user profile in the R-UIM with
8 the Unspecified application bit turned on.
- 9 10. Tear down the data session.
- 10 11. Power down the ME.

11 6.32.2.5 Minimum Standard

12 The ME shall comply with the requirements in steps 3, 6 and 9 of the procedure.

13

14

1 6.32.3 Prioritization among User Profiles

2 This test is only applicable to an ME supporting the SimpleIP feature, and additionally
3 MMS and WAP.

4 6.32.3.1 Definition

5 The R-UIM contains multiple SimpleIP user profiles that the ME shall use to set up data
6 sessions with a profile that is associated with a particular application. When a data session
7 is requested by the second application, the priorities of the profiles for these applications
8 stored in the R-UIM will determine how the second application and its data session are
9 accommodated. The ME shall support MMS, WAP and an application that is not MMS or
10 WAP, and the ME allows the user to start a new data session when an existing data session
11 is in progress.

12 6.32.3.2 Traceability

13 When an existing data session is in progress for an application, the ME shall be capable of
14 handling the request of the second application based on the priorities of both applications'
15 user profiles. See sections 3.4.42, 3.4.46, 3.4.89 and 3.5.1 of [1].

16 6.32.3.3 Initial Conditions

17 Initial Conditions A:

18 Refer to section 5.2 for the common initial conditions.

20 Initial Conditions B:

21 Refer to section 5.2 for the common initial conditions.

22 In addition, the files EF_{SIPUPP} , $EF_{SIPUPPExt}$, $EF_{SIPPAPSS}$ and $EF_{SIPCHAPSS}$ shall be configured as
23 follows:

24 EF_{SIPUPP} (SimpleIP User Profile Parameters)

25	NAI Entry Index:	0
26	NAI:	"abc0@xyz.com"
27	Authentication Algorithm:	PAP and CHAP
28	NAI Entry Index:	1
29	NAI:	"abc1@xyz.com"
30	Authentication Algorithm:	PAP and CHAP

31 $EF_{SIPUPPExt}$ (SimpleIP User Profile Parameters Extension)

32	NAI Entry Index:	0
33	Applications:	MMS
34	Priority:	100

1 Data Rate Mode: High
 2 Data Bearer: Hybrid 1xEV-DO/1x
 3 NAI Entry Index: 1
 4 Applications: WAP Browser
 5 Priority: 90
 6 Data Rate Mode: High
 7 Data Bearer: Hybrid 1xEV-DO/1x

8 EF_{SIPPAPSS} (Simple IP PAP SS)

9 NAI Entry Index: 0
 10 PAP SS: "PAP SS 0"
 11 NAI Entry Index: 1
 12 PAP SS: "PAP SS 1"

13 Simple IP CHAP SS:

14 NAI Entry Index: 0
 15 CHAP SS: "CHAP SS 0"
 16 NAI Entry Index: 1
 17 CHAP SS: "CHAP SS 1"

18
 19 Initial Conditions C:

20 Refer to section 5.2 for the common initial conditions.

21 In addition, the files EF_{SIPUPP}, EF_{SIPUPPExt}, EF_{SIPPAPSS} and EF_{SIPCHAPSS} shall be configured as
 22 follows:

23 EF_{SIPUPP} (SimpleIP User Profile Parameters)

24 NAI Entry Index: 0
 25 NAI: "abc0@xyz.com"
 26 Authentication Algorithm: PAP and CHAP
 27 NAI Entry Index: 1
 28 NAI: "abc1@xyz.com"
 29 Authentication Algorithm: PAP and CHAP

30 EF_{SIPUPPExt} (SimpleIP User Profile Parameters Extension)

31 NAI Entry Index: 0
 32 Applications: MMS
 33 Priority: 90

1	Data Rate Mode:	High
2	Data Bearer:	Hybrid 1xEV-DO/1x
3	NAI Entry Index:	1
4	Applications:	WAP Browser
5	Priority:	100
6	Data Rate Mode:	High
7	Data Bearer:	Hybrid 1xEV-DO/1x
8	EF _{SIPPAPSS} (Simple IP PAP SS)	
9	NAI Entry Index:	0
10	PAP SS:	“PAP SS 0”
11	NAI Entry Index:	1
12	PAP SS:	“PAP SS 1”
13	Simple IP CHAP SS:	
14	NAI Entry Index:	0
15	CHAP SS:	“CHAP SS 0”
16	NAI Entry Index:	1
17	CHAP SS:	“CHAP SS 1”

18 6.32.3.4 Procedure

19 This procedure shall be performed for each set of Initial Conditions.

- 20 1. Power on the ME.
- 21 2. Set up a data session from the ME using the WAP Browser application.
- 22 3. Wait until the data session is connected.
- 23 4. Set up a data session from the ME using the MMS application.
- 24 5. Perform the following for different initial conditions:
 - 25 A. Verify that the ME launches the MMS application by sharing the current
 - 26 data connection.
 - 27 B. Verify that the ME rejects the MMS application and that the ME continues
 - 28 the current data connection for WAP Browser.
 - 29 C. Verify that the ME disconnects the current data connection for WAP Browser
 - 30 and established a new data connection for MMS.
- 31 6. Power down the ME.

32 6.32.3.5 Minimum Standard

33 The ME shall comply with the requirements in step 5 of the procedure.

34

1 **6.33 Mobile IP**

2 The tests in this section are only applicable to an ME supporting the MobileIP feature.

3 6.33.1 MobileIP Registration Retries

4 6.33.1.1 Definition

5 The R-UIM contains the MobileIP Registration Max Retries value MAX_NUM_RETRY and the
6 First Retry Timeout value FIRST_RETRY_TIMEOUT that the ME shall use to perform
7 MobileIP registrations.

8 6.33.1.2 Traceability

9 The ME shall be capable of making the number of MobileIP registration retries based on the
10 Max Retries value and the First Retry Timeout value stored in the R-UIM. See section
11 3.4.43 of [1] and 3.5.8.6 of [18].

12 6.33.1.3 Initial Conditions

13 Refer to section 5.2 for the common initial conditions.

14 In addition, the NS is configured to support MobileIP and not to respond to MobileIP
15 registration requests from the ME.

16 6.33.1.4 Procedure

- 17 1. Power on the ME.
- 18 2. Set up a data call from the ME.
- 19 3. Verify the following:
 - 20 • That the ME sends MobileIP registration after receiving home agent
21 advertisement from the NS.
 - 22 • That the ME sends a first MobileIP registration retry after the time period
23 indicated by the First Retry Timeout value provisioned in the CS has passed.
 - 24 • That the ME sends a second MobileIP registration retry after the time period
25 indicated by the First Retry Timeout value provisioned in the CS has passed.
 - 26 • That the ME releases the data call after having performed the maximum number
27 of MobileIP registration retries defined by the Max Retries value provisioned in
28 the CS.
- 29 4. Power down the ME.

30 6.33.1.5 Minimum Standard

31 The ME shall comply with the requirements in step 3 of the procedure.
32
33

1 6.33.2 MobileIP Re-registration Threshold

2 6.33.2.1 Definition

3 The R-UIM contains the MobileIP Re-registration Threshold value REREG_THRESHOLD
4 that the ME shall use to perform MobileIP re-registrations.

5 6.33.2.2 Traceability

6 The ME shall be capable of performing MobileIP re-registration after the time period has
7 passed as indicated in the MobileIP Re-Registration Threshold value stored in the R-UIM.
8 See section 3.4.43 of [1] and 3.5.8.6 of [18].

9 6.33.2.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 In addition, the NS is configured such that it supports MobileIP and the MobileIP
12 registration lifetime value of the home agent is greater than re-registration threshold
13 provisioned in the CS.

14 6.33.2.4 Procedure

- 15 1. Power on the ME.
- 16 2. Set up a data call from the ME.
- 17 3. Verify the following:
 - 18 • That the ME sends MobileIP registration after receiving foreign agent
19 advertisement from the NS.
 - 20 • That the ME completes the registration successfully.
- 21 4. Wait for at least the time of the Re-registration Threshold.
- 22 5. Verify that the ME sends MobileIP re-registration after the time period indicated by
23 the Re-registration Threshold has passed and before the Registration Lifetime is
24 reached.
- 25 6. Power down the ME.

26 6.33.2.5 Minimum Standard

27 The ME shall comply with the requirements in steps 3 and 5 of the procedure.
28
29

1 6.33.3 MobileIP to SimpleIP Fallback

2 This test is only applicable to an ME supporting both the SimpleIP and the MobileIP
3 features.

4 6.33.3.1 Definition

5 The R-UIM contains the 3GPD Operation Mode parameter that allows the mobile station to
6 perform MobileIP to SimpleIP fallback.

7 6.33.3.2 Traceability

8 The ME shall be capable of performing MobileIP to SimpleIP fallback as provisioned in the
9 R-UIM. See section 3.4.39 of [1] and 3.5.8.2 of [18].

10 6.33.3.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions. The NS is configured to reject a
12 MobileIP data call and accept a SimpleIP data call.

13 6.33.3.4 Procedure

- 14 1. Power on the ME.
- 15 2. Set up a data call from the ME.
- 16 3. Verify that the ME tries to set up a data session using MobileIP.
- 17 4. Verify that the ME falls back to SimpleIP upon network rejection and successfully
18 set up a SimpleIP data session.
- 19 5. Power down the ME.

20 6.33.3.5 Minimum Standard

21 The ME shall comply with the requirements in steps 3 and 4 of the procedure.
22

1 6.33.4 MobileIP MN-HA 2002bis Authentication

2 6.33.4.1 Definition

3 The R-UIM contains the MobileIP configuration regarding the use of Mobile IP 2002bis MN-
4 HA Authentication.

5 6.33.4.2 Traceability

6 The ME shall be capable of performing MobileIP MN-HA authentication per the 2002bis
7 configuration on the R-UIM. See section 3.4.88 of [1].

8 6.33.4.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, the file EF_{MIPFlags} is set as follows:

11 EF_{MIPFlags} (Mobile IP Flags):

12 Mobile IP 2002bis MN HA Authentication: True

13 Mobile IP Pre Rev 6 handoff optimization: False

14 Mobile IP PPP Re-sync during hand-down from 1xEV-DO Rev 0 to 1x: False

15 Mobile IP Re-registration only if data has been transferred since last registration in
16 order to extend Mobile IP address lifetime: False

17 The NS is configured to support MobileIP with MN-HA 2002bis authentication.

18 6.33.4.4 Procedure

19 1. Power on the ME.

20 2. Set up a data call from the ME.

21 3. Verify that the ME successfully completes MobileIP registration with the NS using
22 the 2002bis authentication.

23 4. Power down the ME.

24 6.33.4.5 Minimum Standard

25 The ME shall comply with the requirements in step 3 of the procedure.

26

1 6.33.5 Mobile IP Pre Rev 6 Handoff Optimization

2 6.33.5.1 Definition

3 The R-UIM contains the MobileIP configuration regarding Mobile IP Pre Rev 6 handoff
4 optimization.

5 6.33.5.2 Traceability

6 The ME shall be capable of performing MobileIP Pre Rev 6 handoff optimization per
7 configuration on the R-UIM. See section 3.4.88 of [1].

8 6.33.5.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, the file EF_{MIPFlags} is set as follows:

11 EF_{MIPFlags} (Mobile IP Flags):

12 Mobile IP 2002bis MN HA Authentication: False

13 Mobile IP Pre Rev 6 handoff optimization: True

14 Mobile IP PPP Re-sync during hand-down from 1xEV-DO Rev 0 to 1x: False

15 Mobile IP Re-registration only if data has been transferred since last registration in
16 order to extend Mobile IP address lifetime: False

17 The NS is configured to support MobileIP with Pre Rev 6 handoff optimization enabled.

18 6.33.5.4 Procedure

- 19 1. Power on the ME.
- 20 2. Set up a data call from the ME and send some data to the NS.
- 21 3. Verify that the ME successfully completes MobileIP registration with the NS.
- 22 4. Wait until the data transmission is completed.
- 23 5. Wait for the ME to go into dormancy.
- 24 6. While the ME is still in dormancy, trigger the NS to make the ME to move from the
25 current BSC to another BSC which is connected to a different PDSN.
- 26 7. Verify that the ME initiates PPP re-sync with inter-PCF dormant handoff.
- 27 8. Verify that the ME successfully performs MobileIP registration and updated its FA
28 and HA information locally.
- 29 9. Start sending data from the ME again.
- 30 10. Power down the ME.

31 6.33.5.5 Minimum Standard

32 The ME shall comply with the requirements in steps 3, 7 and 8 of the procedure.

33

6.33.6 MobileIP PPP Re-sync during Hand-down from 1xEV-DO Rev 0 to 1x

This test is only applicable to an ME supporting the MobileIP feature, 1x and 1xEV-DO.

6.33.6.1 Definition

The R-UIM contains the MobileIP configuration regarding PPP Re-sync during Hand-down from 1xEV-DO Rev 0 to 1x. See section 3.4.88 of [1].

6.33.6.2 Traceability

The ME shall be capable of performing MobileIP PPP Re-sync during Hand-down from 1xEV-DO Rev 0 to 1x per configuration on the R-UIM.

6.33.6.3 Initial Conditions

Refer to section 5.2 for the common initial conditions.

In addition, the file EF_{MIPFlags} is set as follows:

EF_{MIPFlags} (Mobile IP Flags):

Mobile IP 2002bis MN HA Authentication: False

Mobile IP Pre Rev 6 handoff optimization: False

Mobile IP PPP Re-sync during hand-down from 1xEV-DO Rev 0 to 1x: True

Mobile IP Re-registration only if data has been transferred since last registration in order to extend Mobile IP address lifetime: False

The NS is configured to be on 1xEV-DO Rev 0 system in order to support MobileIP with PPP Re-sync during Hand-down from 1xEV-DO Rev 0 to 1x.

6.33.6.4 Procedure

1. Power on the ME.
2. Set up a data call from the ME.
3. Wait for the ME to complete MobileIP registration with the NS on 1xEV-DO Rev 0 system.
4. Trigger the NS to make the ME hand down to 1x system while PPP is in active state.
5. Verify that the ME performs a hand-down to the 1x system and re-synchronized PPP.
6. Power down the ME.

6.33.6.5 Minimum Standard

The ME shall comply with the requirements in step 5 of the procedure.

1 6.33.7 Mobile IP Re-registration for Extending Mobile IP address lifetime

2 6.33.7.1 Definition

3 The R-UIM contains the “MobileIP re-registration only if data has been transferred since
4 last registration in order to extend MobileIP address lifetime” flag that the ME shall use to
5 perform MobileIP re-registrations.

6 6.33.7.2 Traceability

7 The ME shall be capable of performing MobileIP re-registration only if data has been
8 transferred since last registration in order to extend MobileIP address lifetime according to
9 the MobileIP flags set in EF_{MIPFlags} of the R-UIM. See section 3.4.88 of [1].

10 6.33.7.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 In addition, the NS is configured such that it supports MobileIP and the MobileIP
13 registration lifetime value of the home agent is greater than re-registration threshold
14 provisioned in the CS.

15 In addition, the file EF_{MIPFlags} is set as follows:

16 EF_{MIPFlags} (Mobile IP Flags):

17 Mobile IP 2002bis MN HA Authentication: False

18 Mobile IP Pre Rev 6 handoff optimization: False

19 Mobile IP PPP Re-sync during hand-down from 1xEV-DO Rev 0 to 1x: False

20 Mobile IP Re-registration only if data has been transferred since last registration in
21 order to extend Mobile IP address lifetime: True

22 6.33.7.4 Procedure

- 23 1. Power on the ME.
- 24 2. Set up a MobileIP data call from the ME.
- 25 3. Verify that the ME successfully completes the registration.
- 26 4. Send data from the ME.
- 27 5. Verify that the NS receives the data from the ME.
- 28 6. Wait for at least the time of the re-registration threshold.
- 29 7. Verify that the ME successfully performs an MobileIP re-registration.
- 30 8. Wait for at least the time of the MobileIP registration lifetime.
- 31 9. Verify that ME does not perform MobileIP re-registration and the NS disconnected
32 the MobileIP data session.
- 33 10. Power down the ME.

1 6.33.7.5 Minimum Standard

2 The ME shall comply with the requirements in steps 3, 5, 7 and 9 of the procedure.

3

1 **6.34 Data Configurations**

2 6.34.1 Data Dormant Mode Timer

3 This test is only applicable to an ME supporting either the SimpleIP or MobileIP feature.

4 6.34.1.1 Definition

5 The R-UIM contains the data dormant timer configuration that the ME shall use.

6 6.34.1.2 Traceability

7 The ME shall be capable of performing data dormancy procedure per configuration in the
8 R-UIM. See section 3.4.93 of [1].

9 6.34.1.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 6.34.1.4 Procedure

- 12 1. Power on the ME.
- 13 2. Set up a data call from the ME and send some data to the NS.
- 14 3. Wait until the data transmission is completed.
- 15 4. Wait for a period that is 1 second longer than the dormant timer value in the CS so
16 that the ME goes into dormant state.
- 17 5. Verify that the ME goes into the data dormant state after having no data activity for
18 a period equal to the data dormant timer plus/minus 1 second in the CS.
- 19 6. Power down the ME.

20 6.34.1.5 Minimum Standard

21 The ME shall comply with the requirements in step 5 of the procedure.
22

1

2 6.34.2 Hysteresis Activation Time

3 This test is only applicable to an ME supporting either the SimpleIP or MobileIP feature.

4 6.34.2.1 Definition

5 The R-UIM contains the hysteresis activation time configuration that the ME shall use.

6 6.34.2.2 Traceability7 The ME shall be capable of performing hysteresis activation procedure per configuration in
8 the R-UIM. See section 3.4.93 of [1].9 6.34.2.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 6.34.2.4 Procedure

- 12 1. Power on the ME.
- 13 2. Set up a data call from the ME and send some data to the NS.
- 14 3. Wait for a period that is 1 second longer than the dormant timer value in the CS so
15 that the ME goes into dormant state.
- 16 4. Trigger the NS to make the ME switch to a new packet zone.
- 17 5. Wait for a period shorter than the hysteresis activation timer in the CS.
- 18 6. Verify that the ME does not add a new packet zone to its packet zone list.
- 19 7. Continue to wait so that the total waiting period is equal to the hysteresis activation
20 timer in the CS.
- 21 8. Verify that the ME adds a new packet zone to its packet zone list.
- 22 9. Power down the ME.

23 6.34.2.5 Minimum Standard

24 The ME shall comply with the requirements in steps 6 and 9 of the procedure.

25

1 6.34.3 EPZID

2 6.34.3.1 Definition

3 The R-UIM contains the EPZID configuration that the ME shall use.

4 6.34.3.2 Traceability

5 The ME shall be capable of handling packet zone IDs based on the EPZID configuration in
6 the R-UIM. See section 3.4.93 of [1].

7 6.34.3.3 Initial Conditions

8 Refer to section 5.2 for the common initial conditions.

9 Initial Conditions A:

10 In addition, the file EF_{DGC} is configured as follows:

11 EF_{DGC} (Data Generic Configurations):

12	Data dormant timer:	30 seconds
13	EPZID Type:	Packet Zone ID plus SID
14	Hysteresis Activation Time:	30 seconds

15 The NS is configured to allow SimpleIP data sessions from the mobile station.

16
17 Initial Conditions B:

18 In addition, the file EF_{DGC} is configured as follows:

19 EF_{DGC} (Data Generic Configurations):

20	Data dormant timer:	30 seconds
21	EPZID Type:	Packet Zone ID plus SID and NID
22	Hysteresis Activation Time:	30 seconds

23 The NS is configured to allow SimpleIP data sessions from the mobile station.

24 6.34.3.4 Procedure

25 This procedure shall be performed for each set of Initial Conditions.

- 26 1. Power on the ME.
- 27 2. Set up a data call from the ME and send some data to the NS
- 28 3. Wait until the data transmission is completed.
- 29 4. Wait for a period that is longer than the dormant timer value in the CS.
- 30 5. Trigger the NS in order to make the ME switch to a new packet zone.
- 31 6. Wait for a period that is longer than the hysteresis activation timer in the CS.

- 1 7. Perform the following for different initial conditions:
 - 2 A. Verify that the ME adds the new packet zone to its packet zone list using the
3 "Packet Zone ID plus SID" format.
 - 4 B. Verify that the ME adds the new packet zone to its packet zone list using the
5 "Packet Zone ID plus SID and NID" format.
- 6 8. Power down the ME.

7 6.34.3.5 Minimum Standard

8 The ME shall comply with the requirements in step 7 of the procedure.

9

1 **6.35 HRPD Access Authentication**

2 This test is only applicable to an ME supporting the HRPD feature.

3 6.35.1 Definition

4 The R-UIM contains the HRPD access authentication parameters that the ME shall use.

5 6.35.2 Traceability

6 The ME shall be capable of performing HRPD access authentication using the parameters
7 stored in the R-UIM. See sections 3.4.53, 3.5.3 and 4.7.4 of [1].

8 6.35.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, the NS is configured to stay in HRPD system and to have the same HRPD
11 parameters as on the R-UIM.

12 6.35.4 Procedure

- 13 1. Power on the ME.
14 2. Set up a data session.
15 3. Verify that the ME successfully completes the HRPD access authentication with the
16 NS and that the ME successfully set up the data session.
17 4. Power down the ME.

18 6.35.5 Minimum Standard

19 The ME shall comply with the requirements in step 3 of the procedure.
20

1 **6.36 WAP Browser Connectivity Parameters**

2 This test is only applicable to an ME supporting the WAP Browser feature.

3 6.36.1 Definition

4 The R-UIM contains WAP Browser Connectivity Parameters that the ME shall use to set up
5 browsing sessions. The R-UIM also contains the bookmarks that the ME can use to connect
6 to those websites.

7 6.36.2 Traceability

8 The ME shall be capable of setting up browsing sessions using the WAP Browser
9 connectivity parameters in the R-UIM. The ME shall be capable of connecting to the
10 websites stored in the R-UIM. See section 3.4.94 of [1].

11 6.36.3 Initial Conditions

12 Refer to section 5.2 for the common initial conditions.

13 Initial Conditions A:

14 In addition, the NS is configured to provide access to the web servers defined in
15 EF_{WAPBrowserBM} through the gateway server defined in EF_{WAPBrowserCP}.

16 Initial Conditions B:

17 In addition, EF_{WAPBrowserCP} is configured as follows:

18 EF_{WAPBrowserCP} (WAP Browser Connectivity Parameters)

19 Gateway: <http://gateway.test2.invalid>

20 HomeURL: <http://www.test2.invalid>

21 The NS is configured to provide access to the web servers defined in EF_{WAPBrowserBM} through
22 a gateway server <http://gateway.test2.invalid>.

23 6.36.4 Procedure

24 This procedure shall be performed for each set of Initial Conditions.

- 25 1. Power on the ME.
- 26 2. Set up a WAP browsing session from the ME.
- 27 3. Verify the that the ME uses the WAP gateway provisioned in the CS.
- 28 4. Verity that the ME uses the HomeURL provisioned in the CS for the browsing
29 session.
- 30 5. Tear down the browsing session.
- 31 6. Power down the ME.

1 6.36.5 Minimum Standard

2 The ME shall comply with the requirements in steps 3 and 4 of the procedure.

3

4

1 **6.37 WAP Browser Bookmarks**

2 This test is only applicable to an ME supporting the WAP Browser feature.

3 6.37.1 Definition

4 The R-UIM contains WAP Browser bookmarks that the ME shall allow the user to read and
5 update even if the WAP Browser connectivity parameters are not available on the R-UIM.

6 6.37.2 Traceability

7 The ME shall be capable of allowing the user to read and update bookmarks in the R-UIM
8 in case the R-UIM does not contain the WAP Browser connectivity parameters. See section
9 3.4.95 of [1].

10 6.37.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 The NS is configured to provide access to the web servers defined in EF_{WAPBrowserBM} through
13 the gateway server provisioned in EF_{WAPBrowserCP}.

14 6.37.4 Procedure

- 15 1. Power on the ME.
- 16 2. Switch to the menu display of the ME to the list of bookmarks stored on the CS.
- 17 3. Verify that the ME displays the available bookmarks as provisioned in the CS.
- 18 4. Change bookmark “Test 1 Bookmark 1 Homepage” - <http://test1.bookmark1.invalid>
19 to “Test 1 Modified Bookmark 1 Homepage” -
20 <http://test1.modifiedbookmark1.invalid> and save it.
- 21 5. Verify that the ME displays the modified bookmark in the UI and shall have stored
22 the modified bookmark in file EF_{WAPBrowserBM} of the CS.
- 23 6. Delete existing bookmark “Test 1 Bookmark 3 Homepage” -
24 <http://test1.bookmark3.invalid> using a UI dependent procedure.
- 25 7. Verify that the ME no longer displays the bookmark in the UI and shall have deleted
26 the bookmark from file EF_{WAPBrowserBM} of the CS.
- 27 8. Add a new bookmark “Test 1 Bookmark 4 Homepage” -
28 <http://test1.bookmark4.invalid> using a UI dependent procedure.
- 29 9. Verify that the ME displays the added bookmark in the UI and shall have added the
30 bookmark to file EF_{WAPBrowserBM} of the CS.
- 31 10. Use the newly added bookmark “Test 1 Bookmark 4 Homepage” to connect to the
32 NS.
- 33 11. Verify that the ME connects to the CS using bookmark “Test 1 Bookmark 4
34 Homepage”.

1 12. Power down the ME.

2 6.37.5 Minimum Standard

3 The ME shall comply with the requirements in steps 3, 5, 7, 9 and 11 of the procedure.

4

1 **6.38 MMS Issuer Connectivity Parameters**

2 This test is only applicable to an ME supporting the MMS feature.

3 6.38.1 Definition

4 The R-UIM contains MMS Issuer Connectivity Parameters that the ME shall use to connect
5 to the MMS server.

6 6.38.2 Traceability

7 The ME shall be capable of connecting to the MMS server using the MMS Issuer
8 Connectivity Parameters stored in the R-UIM. The gateway address can be a domain name
9 or an IP address. See section 3.4.69 of [1].

10 6.38.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 Initial Conditions A:

13 In addition, the NS is configured to provide access to the MMS server defined in EF_{MMSICP} of
14 the CS.

15 Initial Conditions B:

16 In addition, file EF_{MMSICP} is configured as follows:

17 EF_{MMSICP} (MMS Issuer Connectivity Parameters)

18 MMS Implementation Information: WAP

19 MMS Relay/Server Address: "<http://mms-operator1.invalid>"

20 Gateway Information:

21 Address FQDN: "gateway.test1.invalid"

22 Port: "9201"

23 Service: "CO-WSP", WAP session service

24 Authentication type: "HTTP BASIC"

25 Authentication id: "gateway_user1"

26 Authentication pw: "gateway_password1"

27 The NS is configured to provide access to the MMS server defined in EF_{MMSISP} of the CS.

28 6.38.4 Procedure

29 This procedure shall be performed for each set of Initial Conditions.

- 30 1. Power on the ME.
- 31 2. Send an MMS message from the ME.
- 32 3. Perform the following for different initial conditions:

- 1 A. Verify that the ME connects to the MMS server using the MMS Relay/Server
- 2 address and the WAP Gateway address stored on the R-UIM.
- 3 B. Verify that the ME connects to the MMS server using the MMS Relay/Server
- 4 address and the WAP Gateway address stored on the R-UIM.
- 5 4. Power down the ME.

6 6.38.5 Minimum Standard

7 The ME shall comply with the requirements in step 3 of the procedure.

8

1 **6.39 MMS Configurations**

2 The tests in this section are only applicable to an ME supporting the MMS feature.

3 6.39.1 Maximum Message Size

4 6.39.1.1 Definition

5 The R-UIM contains MMS Maximum Message Size value that the ME shall use when
6 sending MMS messages.

7 6.39.1.2 Traceability

8 The ME shall be capable of sending MMS messages not longer than the maximum message
9 size value in EF_{MMSConfig} of the R-UIM. See section 3.4.96 of [1].

10 6.39.1.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 Initial Conditions A:

13 In addition, EF_{MMSConfig} on the CS is configured with the following parameter values:

14 EF_{MMSConfig} (MMS Configuration):

15 Max Message Size Value: 6000 bytes

16 Retry Times Value: 3

17 Retry Interval Value: 20 seconds

18 MMSC Timeout Value: 30 seconds

19 The NS is configured to provide access to the MMS server defined in EF_{MMSICP} of the CS.

20 The following message is going to be sent from the ME:

21 X-Mms-Message-Type: m-send-req

22 To: "+0123456789"

23 Subject: "Send MMS"

24 X-Mms-Priority: Normal

25 Content-Type: text/plain (0x03)

26 "To be sent successfully"

27 Initial Conditions B:

28 In addition, EF_{MMSConfig} on the CS is configured with the following parameter values:

29 EF_{MMSConfig} (MMS Configuration):

30 Max Message Size Value: 10 bytes

31 Retry Times Value: 3

1 Retry Interval Value: 20 seconds

2 MMSC Timeout Value: 30 seconds

3 The NS is configured to provide access to the MMS server defined in EF_{MMSICP} of the CS.

4 The following message is going to be sent from the ME:

5 X-Mms-Message-Type: m-send-req

6 To: "+0123456789"

7 Subject: "Send MMS"

8 X-Mms-Message-Class: Personal

9 X-Mms-Priority: Normal

10 Content-Type: text/plain (0x03)

11 "Message too large"

12 6.39.1.4 Procedure

13 This procedure shall be performed for each set of Initial Conditions.

- 14 1. Power on the ME.
- 15 2. Send the message from the ME to the NS.
- 16 3. Perform the following for different initial conditions:
 - 17 A. Verify that the ME successfully sends the message to the NS.
 - 18 B. Verify that the ME does not send the message to the NS.
- 19 4. Power down the ME.

20 6.39.1.5 Minimum Standard

21 The ME shall comply with the requirements in step 3 of the procedure.

22

1 6.39.2 MMS Retries

2 6.39.2.1 Definition

3 The R-UIM contains Retry Times value and the Retry Interval value that the ME shall use
4 when sending MMS messages.

5 6.39.2.2 Traceability

6 The ME shall be capable of using the Retry Times value and the Retry Interval value from
7 $EF_{MMSConfig}$ of the R-UIM when the ME retries to send MMS messages. See section 3.4.96 of
8 [1].

9 6.39.2.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 In addition, the NS is configured so that the MMS Relay/Server will immediately respond
12 with an M-Send.conf PDU (with Status "Error-transient-failure") to MMS messages from the
13 ME.

14 6.39.2.4 Procedure

- 15 1. Power on the ME.
- 16 2. Send an MMS message from the ME.
- 17 3. Wait for 90 seconds.
- 18 4. Verify that the ME retries to send the MMS message exactly 3 times to the NS.
- 19 5. Verify that the ME waits for 20 to 22 seconds each time before it retries the
20 message.
- 21 6. Power down the ME.

22 6.39.2.5 Minimum Standard

23 The ME shall comply with the requirements in step 4 and 5 of the procedure.
24
25

1 6.39.3 MMSC Timeout

2 6.39.3.1 Definition

3 The R-UIM contains the MMSC Timeout value that the ME shall use when sending MMS
4 messages.

5 6.39.3.2 Traceability

6 The ME shall be capable of declaring an MMSC timeout after having waited for the number
7 of seconds defined by the MMSC Timeout value in $EF_{MMSCConfig}$ of the R-UIM. See section
8 3.4.96 of [1].

9 6.39.3.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 In addition, the NS is configured so that the MMS Relay/Server will not respond to MMS
12 messages from the MS.

13 6.39.3.4 Procedure

- 14 1. Power on the ME.
- 15 2. Send an MMS message from the ME.
- 16 3. Wait for 210 seconds.
- 17 4. Verify that the ME retries to send the MMS message exactly 3 times to the network.
- 18 5. Verify that the ME waits for 50 to 52 seconds each time before it retries the
19 message.
- 20 6. Power down the ME.

21 6.39.3.5 Minimum Standard

22 The ME shall comply with the requirements in steps 4 and 5 of the procedure.
23
24

1 **6.40 MMS Notifications**

2 The tests in this section are only applicable to an ME supporting the MMS feature.

3 6.40.1 Reading and Using MMS Notification in R-UIM

4 6.40.1.1 Definition

5 The R-UIM provides space for storing MMS Notifications.

6 6.40.1.2 Traceability

7 The ME shall be capable of reading and using the MMS Notifications in EF_{MMSN} of the
8 R-UIM. See section 3.4.67 of [1].

9 6.40.1.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 In addition, EF_{MMSN} contains the following MMS notification in record 1:

12	MMS Status:	'00000001' (Notification not read, Notification not
13		retrieved)
14	MMS Implementation:	WAP implementation of MMS
15	X-Mms-Message-Type:	m-notification-ind
16	X-Mms-Transaction-ID:	"12345678"
17	X-Mms-MMS-Version:	1.2
18	From:	"+0123456789"
19	Subject:	"MMS to be retrieved"
20	X-Mms-Message-Class:	Personal
21	X-Mms-Priority:	Normal
22	X-Mms-Message-Size:	44 bytes
23	X-Mms-Expiry:	10 days
24	X-Mms-Content-Location:	http://test.invalid/mmsc/test1.mms

25 The NS is configured to respond to the MMS Retrieval request from the ME using the
26 following MMS message:

27	X-Mms-Message-Type:	m-retrieve-conf
28	X-Mms-Transaction-ID:	"12345678"
29	X-Mms-MMS-Version:	1.2
30	Message-ID:	<12345678@test.invalid>
31	Date:	2010/01/01, 12:00:00am

1 From: “+0123456789”
2 To: “+9876543210/TYPE=PLMN”
3 Subject: “MMS to be retrieved”
4 X-Mms-Message-Class: Personal
5 X-Mms-Priority: Normal
6 Content-Type: text/plain (0x03)
7 “This is the message that has been retrieved.”

8 6.40.1.4 Procedure

- 9 1. Power on the ME.
- 10 2. Using the UI of the ME, select the MMS Notification record 1 from the CS and
11 display it.
- 12 3. Verify that the fields in MMS Notification record 1 of EF_{MMSN} are displayed, and
13 MMS Status is “Notification read”.
- 14 4. Verify that Record 1 of EF_{MMSN} on the CS contains MMS Status ‘00000111’
15 (Notification read, MM not retrieved).
- 16 5. Retrieve the MMS message from the NS using the MMS Notification that is being
17 displayed.
- 18 6. Verify that the ME successfully retrieves the MMS message using the MMS
19 Notification that is being displayed.
- 20 7. Verify that the MMS Status in record 1 of EF_{MMSN} in the CS is ‘00000111’
21 (Notification read, MM retrieved), or ‘0000XXX0’ (Free space)
- 22 8. Power down the ME.

23 6.40.1.5 Minimum Standard

24 The ME shall comply with the requirements in steps 3, 4, 6 and 7 of the procedure.
25
26

1 6.40.2 Automatically Storing MMS Notification in R-UIM

2 This test is only applicable to an ME supporting the MMS feature and automatically storing
3 MMS notifications in R-UIM.

4 6.40.2.1 Definition

5 The R-UIM provides space for storing MMS Notifications.

6 6.40.2.2 Traceability

7 The ME shall be capable of automatically storing the received MMS Notifications in EF_{MMSN}
8 of the R-UIM. See section 3.4.67 of [1].

9 6.40.2.3 Initial Conditions

10 Refer to section 5.2 for the common initial conditions.

11 In addition, the ME is configured to automatically store received MMS notifications in CS.

12 The NS is configured to send MMS notification to the MS with the following fields:

13	X-Mms-Message-Type:	m-notification-ind
14	X-Mms-Transaction-ID:	"12345678"
15	X-Mms-MMS-Version:	1.2
16	From:	"+0123456789"
17	Subject:	"MMS to be retrieved"
18	X-Mms-Message-Class:	Personal
19	X-Mms-Priority:	Normal
20	X-Mms-Message-Size:	100 bytes
21	X-Mms-Expiry:	10 days
22	X-Mms-Content-Location:	http://test.invalid/mmsc/test1.mms

23 6.40.2.4 Procedure

- 24 1. Power on the ME.
- 25 2. Send an MMS Notification from the NS to the MS.
- 26 3. Wait until the MS has successfully received the MMS Notification.
- 27 4. Verify that EF_{MMSN} in the CS has a record containing MMS Notification fields with
28 the same values as has been sent from the NS.
- 29 5. Verify that the MMS Status of the MMS Notification is '00000001' (Notification not
30 read, MM not retrieved).
- 31 6. Power down the ME.

1 6.40.2.5 Minimum Standard

2 The ME shall comply with the requirements in steps 4 and 5 of the procedure.

3

1 6.40.3 Forwarding MMS Notifications

2 6.40.3.1 Definition

3 The R-UIM provides space for storing MMS Notifications.

4 6.40.3.2 Traceability

5 The ME shall be capable of forwarding the MMS Notifications in EF_{MMSN} of the R-UIM and
6 updating their status on the R-UIM accordingly. See section 3.4.67 of [1].

7 6.40.3.3 Initial Conditions

8 Refer to section 5.2 for the common initial conditions.

9 In addition, the NS is configured to accept MMS forwarding request from the MS.

10 EF_{MMSN} contains the following MMS notification in record 1:

11	MMS Status:	'00000011' (Notification read, MM not retrieved)
12	MMS Implementation:	WAP implementation of MMS
13	X-Mms-Message-Type:	m-notification-ind
14	X-Mms-Transaction-ID:	"12345678"
15	X-Mms-MMS-Version:	1.2
16	From:	"+0123456789"
17	Subject:	"MMS Notification to be forwarded"
18	X-Mms-Message-Class:	Personal
19	X-Mms-Priority:	Normal
20	X-Mms-Message-Size:	100 bytes
21	X-Mms-Expiry:	10 days
22	X-Mms-Content-Location:	http://test.invalid/mmsc/test1.mms

23 6.40.3.4 Procedure

- 24 1. Power on the ME.
- 25 2. Using the UI of the ME, select the MMS Notification from the CS and display it.
- 26 3. Forward the MMS Notification stored in the CS to a recipient using address "To:
27 4445556666".
- 28 4. Wait until the NS accepts the forwarded notification.
- 29 5. Verify that MMS Status of record 1 in EF_{MMSN} is '00001111' (Notification read, MM
30 forwarded).
- 31 6. Power down the ME.

1 6.40.3.5 Minimum Standard

2 The ME shall comply with the requirements in step 5 of the procedure.

3

4

1 6.40.4 Deleting MMS Notification from R-UIM

2 6.40.4.1 Definition

3 The R-UIM provides space for storing MMS Notifications.

4 6.40.4.2 Traceability

5 The ME shall be capable of deleting the MMS Notifications in EF_{MMSN} of the R-UIM. See
6 section 3.4.67 of [1].

7 6.40.4.3 Initial Conditions

8 Refer to section 5.2 for the common initial conditions.

9 In addition, EF_{MMSN} contains the following MMS notification in record 1:

10	MMS Status:	'00000011' (Notification read, MM not retrieved)
11	MMS Implementation:	WAP implementation of MMS
12	X-Mms-Message-Type:	m-notification-ind
13	X-Mms-Transaction-ID:	"12345678"
14	X-Mms-MMS-Version:	1.2
15	From:	"+0123456789"
16	Subject:	"MMS Notification to be deleted"
17	X-Mms-Message-Class:	Personal
18	X-Mms-Priority:	Normal
19	X-Mms-Message-Size:	100 bytes
20	X-Mms-Expiry:	10 days
21	X-Mms-Content-Location:	http://test.invalid/mmsc/test1.mms

22 6.40.4.4 Procedure

- 23 1. Power on the ME.
- 24 2. Using the UI of the ME, select the MMS Notification from record 1 of EF_{MMSN} in the
25 CS and display it.
- 26 3. Delete the MMS Notification from the CS.
- 27 4. Verify that the ME does not display the MMS Notification any longer.
- 28 5. Verify that MMS Status of record 1 in EF_{MMSN} is '0000XXX0' (Free space).
- 29 6. Power down the ME.

30 6.40.4.5 Minimum Standard

31 The ME shall comply with the requirements in steps 4 and 5 of the procedure.

32

1 **6.41 MMS User Preferences**

2 The tests in this section are only applicable to an ME supporting the MMS feature.

3 6.41.1 Reading and Using MMS User Preferences

4 6.41.1.1 Definition

5 The R-UIM contains user preference records for sending MMS. The user shall be able to use
6 these preferences for sending MMS messages.

7 6.41.1.2 Traceability

8 The ME shall be capable of providing MMS User Preferences stored in EF_{MMSUP} of the R-UIM
9 to the user. The ME shall provide the user the ability to send MMS using User Preferences
10 stored in the R-UIM. See section 3.4.70 of [1].

11 6.41.1.3 Initial Conditions

12 Refer to section 5.2 for the common initial conditions.

13 6.41.1.4 Procedure

- 14 1. Power on the ME.
- 15 2. Use a UI dependent procedure to select the MMS User Preferences record 1 on the
16 CS.
- 17 3. Verify that the ME displays the User Preference information “Priority” with value
18 “High”.
- 19 4. Compose and send an MMS message from the ME using record 1 of EF_{MMSUP} without
20 overriding the priority field of the message.
- 21 5. Verify that the ME sends an MMS message with priority “High” to the NS.
- 22 6. Power down the ME.

23 6.41.1.5 Minimum Standard

24 The ME shall comply with the requirements in steps 3 and 5 of the procedure.
25
26

1 6.41.2 Updating MMS User Preferences

2 6.41.2.1 Definition

3 The R-UIM contains MMS user preference records for sending MMS. The user shall be able
4 to modify and update these preferences.

5 6.41.2.2 Traceability

6 The ME shall be capable of updating MMS User Preferences stored in EF_{MMSUP} of the R-UIM
7 to the user. See section 3.4.70 of [1].

8 6.41.2.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 6.41.2.4 Procedure

- 11 1. Power on the ME.
- 12 2. Use a UI dependent procedure to select the MMS User Preferences record 1.
- 13 3. Use a UI dependent procedure to set the priority of MMS User Preferences record 1
14 to “Low” on the CS.
- 15 4. Verify that the priority field in record 1 of EF_{MMSUP} on the CS has the value “Low”.
- 16 5. Power down the ME.

17 6.41.2.5 Minimum Standard

18 The ME shall comply with the requirements in step 4 of the procedure.
19
20
21

1 **6.42 Root Certificates**

2 This test is only applicable to an ME supporting the Java and the Root Certificates feature.

3 6.42.1 Definition

4 The R-UIM contains the root certificates that the ME shall use for verifying signed
5 applications.

6 6.42.2 Traceability

7 The ME shall be capable of verifying the signed Java application that is downloaded from
8 the Java download server using the root certificate store in EF_{RC} in the R-UIM. See section
9 3.4.86 of [1].

10 6.42.3 Initial Conditions

11 Refer to section 5.2 for the common initial conditions.

12 Initial Conditions A:

13 In addition, the NS is configured to accept HTTP connection and allow the download of Java
14 applications to the ME using the Java download URL as stored in the CS, and sign the Java
15 applications using the same root certificate information as stored in the CS.

16 The Java application to be downloaded shall display “Hello world!” when it is executed.

17 Initial Conditions B:

18 In addition, the NS is configured to accept HTTP connection and allow the download of Java
19 applications to the ME using the Java download URL as stored in the CS, and sign the Java
20 applications using root certificate information different from the root certificate stored in
21 the CS.

22 The Java application to be downloaded shall display “Hello world!” when it is executed.

23 6.42.4 Procedure

24 This procedure shall be performed for each set of Initial Conditions.

- 25 1. Power on the ME.
- 26 2. Using the UI dependent procedure of the ME, start the Java download program in
27 the ME and perform application download.
- 28 3. Start the downloaded Java application.
- 29 4. Perform the following for different initial conditions:
 - 30 A. Verify that the ME successfully runs the downloaded Java application which
31 displayed “Hello world!”
 - 32 B. Verify that ME does not run the downloaded Java application.
- 33 5. Power down the ME.

1 6.42.5 Minimum Standard

2 The ME shall comply with the requirements in step 4 of the procedure.

3

1 **6.43 Java**

2 This test is only applicable to an ME supporting the Java feature.

3 6.43.1 Definition

4 The R-UIM contains the Java Download URL that the ME shall use.

5 6.43.2 Traceability

6 The ME shall be capable of using the Java Download URL stored in the R-UIM to perform
7 Java application download. See section 3.4.97 of [1].

8 6.43.3 Initial Conditions

9 Refer to section 5.2 for the common initial conditions.

10 In addition, the NS is configured to accept HTTP connection and allow the download of Java
11 applications to the ME using the Java download URL as stored in CS.

12 6.43.4 Procedure

- 13 1. Power on the ME.
- 14 2. Using the UI dependent procedure of the ME, connect to the Java download server.
- 15 3. Verify that the ME connects to the Java download server successfully using the URL
16 provisioned in EF_{JDL} on the CS.
- 17 4. Power down the ME.

18 6.43.5 Minimum Standard

19 The ME shall comply with the requirements in step 3 of the procedure.
20

1 **ANNEX A. [INFORMATIVE] APPLICABILITY MATRIX**

2 The following table summarizes the applicability of test cases in terms of testing the ME with an R-UIM having a particular C.S0023
3 revision.

4 “Yes” indicates that a test case applies to that R-UIM revision, and “--” indicates that a test case does not apply to that R-UIM
5 revision.

6
7 **Table 2. Applicability Matrix of Test Cases for the Different Revisions**

8

Test Case	C.S0023-0	C.S0023-A	C.S0023-B	C.S0023-C	C.S0023-D
6.1.1 Mobile Station Identifier	Yes	Yes	Yes	Yes	Yes
6.1.2 MS Displaying the Roaming Indicator	Yes	Yes	Yes	Yes	Yes
6.2.1 Removable UIM_ID Usage Indicator	Yes	Yes	Yes	Yes	Yes
6.2.2 ESN Management	Yes	Yes	Yes	Yes	Yes
6.2.3 MEID Management	--	--	--	Yes	Yes
6.2.4 EUIMID and MEID	--	--	--	Yes	Yes
6.3.1 SSD Update	Yes	Yes	Yes	Yes	Yes
6.3.2 Authentication Calculation for Global Challenge	Yes	Yes	Yes	Yes	Yes
6.3.3 Unique Challenge While the Mobile Station is in Idle State	Yes	Yes	Yes	Yes	Yes
6.3.4 Unique Challenge While the Mobile Station is in Mobile Station	Yes	Yes	Yes	Yes	Yes

Test Case	C.S0023-0	C.S0023-A	C.S0023-B	C.S0023-C	C.S0023-D
Control on the Traffic Channel State					
6.3.5 Generate Key/VPM	Yes	Yes	Yes	Yes	Yes
6.3.6 Authentication	Yes	Yes	Yes	Yes	Yes
6.5.1 Preferred Roaming List	Yes	Yes	Yes	Yes	Yes
6.5.2 OTASP/OTAPA Commands	Yes	Yes	Yes	Yes	Yes
6.5.3 EPRL Download	--	--	Yes	Yes	Yes
6.11 Exchange Protocol Tests	Yes	Yes	Yes	Yes	Yes
6.12.1 Operating Speed in Authentication Procedure	Yes	Yes	Yes	Yes	Yes
6.12.2 Clock Stop	Yes	Yes	Yes	Yes	Yes
6.13 Mechanical Tests	Yes	Yes	Yes	Yes	Yes
6.14.1 Entry of CHV1	Yes	Yes	Yes	Yes	Yes
6.14.2 Change of CHV1	Yes	Yes	Yes	Yes	Yes
6.14.3 Disabling the CHV1	Yes	Yes	Yes	Yes	Yes
6.14.4 UNBLOCK CHV1 Entry	Yes	Yes	Yes	Yes	Yes
6.14.5 Entry of CHV2	Yes	Yes	Yes	Yes	Yes
6.14.6 Change of CHV2	Yes	Yes	Yes	Yes	Yes
6.14.7 UNBLOCK CHV2 Entry	Yes	Yes	Yes	Yes	Yes
6.15 Abbreviated Dialing Numbers (ADN)	Yes	Yes	Yes	Yes	Yes
6.16 UI Reaction to R-UIM Status Encoding	Yes	Yes	Yes	Yes	Yes

Test Case	C.S0023-0	C.S0023-A	C.S0023-B	C.S0023-C	C.S0023-D
6.17 Electrical Tests	Yes	Yes	Yes	Yes	Yes
6.19 Version Identification	Yes	Yes	Yes	Yes	Yes
6.20 R-UIM Presence Detection	Yes	Yes	Yes	Yes	Yes
6.22 Suggested Slot Cycle Index	Yes	Yes	Yes	Yes	Yes
6.23 Service Provider Name	Yes	Yes	Yes	Yes	Yes
6.24 CDMA Service Table	Yes	Yes	Yes	Yes	Yes
6.25.1 Application Labels Present on R-UIM	--	--	--	--	Yes
6.25.2 Application Labels Not Present on R-UIM	--	--	--	--	Yes
6.26 Device Model Information	--	--	--	--	Yes
6.27 Emergency Numbers	--	--	Yes	Yes	Yes
6.28.1 SMS Retries	--	--	--	--	Yes
6.28.2 Sending SMS on Access Channel	--	--	--	--	Yes
6.28.3 Sending SMS on Traffic Channel	--	--	--	--	Yes
6.28.4 Sending EMS messages	--	--	--	--	Yes
6.29.1 Automatically Storing Received SMS in R-UIM	Yes	Yes	Yes	Yes	Yes
6.29.2 Saving SMS in R-UIM	Yes	Yes	Yes	Yes	Yes
6.29.3 Reading SMS from R-UIM	Yes	Yes	Yes	Yes	Yes
6.29.4 Deleting SMS in R-UIM	Yes	Yes	Yes	Yes	Yes

Test Case	C.S0023-0	C.S0023-A	C.S0023-B	C.S0023-C	C.S0023-D
6.30.1 Saving SMS Parameters in R-UIM	Yes	Yes	Yes	Yes	Yes
6.30.2 Reading SMS Parameters in R-UIM	Yes	Yes	Yes	Yes	Yes
6.30.3 Deleting SMS Parameters in R-UIM	Yes	Yes	Yes	Yes	Yes
6.31 SMS Status on R-UIM	Yes	Yes	Yes	Yes	Yes
6.32.1 PAP and CHAP Authentication	--	Yes	Yes	Yes	Yes
6.32.2 Multiple User Profiles	--	--	--	--	Yes
6.32.3 Prioritization among User Profiles	--	--	--	--	Yes
6.33.1 MobileIP Registration Retries	--	Yes	Yes	Yes	Yes
6.33.2 MobileIP Re-registration Threshold	--	Yes	Yes	Yes	Yes
6.33.3 MobileIP to SimpleIP Fallback	--	Yes	Yes	Yes	Yes
6.33.4 MobileIP MN-HA 2002bis Authentication	--	--	--	--	Yes
6.33.5 Mobile IP Pre Rev 6 Handoff Optimization	--	--	--	--	Yes
6.33.6 MobileIP PPP Re-sync during Hand-down from 1xEV-DO Rev 0 to 1x	--	--	--	--	Yes
6.33.7 Mobile IP Re-registration for Extending Mobile IP address lifetime	--	--	--	--	Yes

Test Case	C.S0023-0	C.S0023-A	C.S0023-B	C.S0023-C	C.S0023-D
6.34.1 Data Dormant Mode Timer	--	--	--	--	Yes
6.34.2 Hysteresis Activation Time	--	--	--	--	Yes
6.34.3 EPZID	--	--	--	--	Yes
6.35 HRPD Access Authentication	--	--	Yes	Yes	Yes
6.36 WAP Browser Connectivity Parameters	--	--	--	--	Yes
6.37 WAP Browser Bookmarks	--	--	--	--	Yes
6.38 MMS Issuer Connectivity Parameters	--	--	--	Yes	Yes
6.39.1 Maximum Message Size	--	--	--	--	Yes
6.39.2 MMS Retries	--	--	--	--	Yes
6.39.3 MMSC Timeout	--	--	--	--	Yes
6.40.1 Reading and Using MMS Notification in R-UIM	--	--	--	Yes	Yes
6.40.2 Automatically Storing MMS Notification in R-UIM	--	--	--	Yes	Yes
6.40.3 Forwarding MMS Notifications	--	--	--	Yes	Yes
6.40.4 Deleting MMS Notification from R-UIM	--	--	--	Yes	Yes
6.41.1 Reading and Using MMS User Preferences	--	--	--	Yes	Yes
6.41.2 Updating MMS User Preferences	--	--	--	Yes	Yes

Test Case	C.S0023-0	C.S0023-A	C.S0023-B	C.S0023-C	C.S0023-D
6.42 Root Certificates	--	--	--	--	Yes
6.43 Java	--	--	--	--	Yes

1

2