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PROJECT 2
"3GPP2"

Mobile Equipment (ME) Conformance Testing with CSIM for cdma2000 Spread Spectrum Standards

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Revision History

Revision	Description of Changes	Date
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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

This is the ME Conformance Testing with CSIM specification. The aim of the present document is to ensure interoperability between an ME and a CSIM independently of the respective manufacturer, card issuer or operator as defined in [1], [2] and [3]. The present document does not define any aspects related to the administrative management phase of the UICC. Any internal technical realization of either the UICC or the ME is only specified where these are reflected over the interface.

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
'b'	A single digit binary number
'bbbbbbbb'	An 8-bit binary number
'hh'	A single octet hexadecimal number
'hh hh hh...hh hh'	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 Definitions

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

Mobile Equipment: The part of a mobile station that does not include the UIM.

Mobile Station: A station, fixed or mobile, which serves as the end user's wireless communication link with the base station. Mobile stations include portable units (e.g., hand-

1 held personal units) and units installed in vehicles. A mobile station consists of two parts – ME
2 and UIM.

3 1.3.2 **Acronyms**

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

5	3GPP2	3rd Generation Partnership Project 2
6	ADF	Application Directory File
7	CSIM	cdma2000 ^{®1} Subscriber Identity Module
8	CS	Card Simulator
9	DF	Directory File
10	EF	Elementary File
11	ME	Mobile Equipment
12	MEID	Mobile Equipment Identifier
13	MS	Mobile Station
14	NS	Network Simulator
15	OTAPA	Over-the-Air Parameter Administration
16	OTASP	Over-the-Air Service Provisioning
17	PIN	Personal Identity Number
18	PIN2	Personal Identity Number 2
19	PRL	Preferred Roaming List
20	SIM	Subscriber Identity Module
21	UICC	Universal Integrated Circuit Card
22	UIM	User Identity Module

23 **1.4 References**

24 The following standards are referenced in this text. At the time of publication, the editions
25 indicated were valid. All standards are subject to revision, and parties to agreements based
26 upon this document are encouraged to investigate the possibility of applying the most recent
27 editions of the standards indicated below. ANSI and TIA maintain registers of currently valid
28 national standards published by them.

29 *Normative:*

- 30 [1] 3GPP2 C.S0065-B v2.0, cdma2000 Application on UICC for Spread Spectrum
31 Systems, January 2011.

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 [2] 3GPP2 C.S0074-A v1.0, UICC-Terminal interface Physical and Logical
2 characteristics for cdma2000 Spread Spectrum Systems, January 2010.
- 3 [3] ETSI TS 102 221, V9.2.0, Smart Cards; UICC-Terminal interface; Physical and
4 logical characteristics, October 2010.
- 5 [4] 3GPP2 C.S0048-A v1.0, Mobile Equipment (ME) Conformance Testing with R-UIM
6 for cdma2000 Spread Spectrum Systems, October 2010.
- 7 [5] 3GPP2 C.S0043-0 v1.0, Signaling Conformance Tests for cdma2000 Spread
8 Spectrum Systems, September 2004.
- 9 [6] 3GPP TS 31.121 V9.3.0, UICC-terminal interface; Universal Subscriber Identity
10 Module (USIM) application test specification (Release 9), October 2010.
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1 **4 ME TEST ENVIRONMENT**

2 The following diagram illustrates the test environment involving the ME (the Unit Under Test),
3 a Card Simulator (CS), and a Network Simulator (NS).

4



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Figure 1 ME Test Environment

7 The NS simulates a cdma2000 network and can receive or originate cell phone calls. The CS
8 simulates a UICC containing a CSIM. Alternatively, to perform the logical tests, CSIMs
9 programmed with specific data may be used. The CSIM data is not defined within the initial
10 conditions of the tests unless it differs from the default values defined below.

11 The following sequence of tests confirms:

- 12 • The correct interpretation of data read from the CSIM (cdma2000 Subscriber
13 Identification Module) by the ME;
- 14 • The correct writing of data to the CSIM by the ME;
- 15 • The initiation of appropriate procedures by the ME; and
- 16 • The high level protocols.

17 All tests apply to the CSIM application on the UICC.

18 **4.1 Definition of Default Values for ME – CSIM Interface Testing (Default** 19 **UICC)**

20 A CSIM containing the following default values is used for all tests of this present document
21 unless otherwise stated.

22 For each data item, the logical default values and the coding within the elementary files (EFs)
23 of the CSIM follow. Unless otherwise specified, the coding values are hexadecimal.

24 **4.1.1 Values of the EFs under MF**

25 The following EFs exist under the UICC Master File (MF) level.

26 **4.1.1.1 EF_{DIR} (Directory)**

27 This EF must contain an AID for the CSIM, i.e. 'A000003431002XXXXXXXX89XXXXXXXX'.

1 4.1.1.2 EF_{PL} (Preferred Languages)

2 Logically: "en" (English)

Coding: B1 B2
65 6E

3 4.1.2 **Values of the EFs under DF_{TELECOM}/DF_{MMSS}**

4 4.1.2.1 EF_{MLPL} (MMSS Location Associated Priority List)

5 Logically: Size – 2 bytes

Coding: B1 B2
00 02

6 4.1.2.2 EF_{MSPL} (MMSS System Priority List)

7 Logically: Size – 2 bytes

Coding: B1 B2
00 02

8 4.1.3 **Values of the EFs under ADF-CSIM**

9 The following EFs exist under the CSIM Application DF (ADF) level.

10 4.1.3.1 EF_{IMSI_M} (IMSI_M)

11 See section 5.1.3 of [4].

12 4.1.3.2 EF_{IMSI_T} (IMSI_T)

13	Logically:	IMSI_T_CLASSp:	Class 0
14		IMSI_T_S2:	000
15		IMSI_T_S1:	0009520
16		IMSI_T_11_12p:	0
17		IMSI_T_PROGRAMMED/	
18		IMSI_T_ADDR_NUMp:	IMSI_T has not been programmed, Address 000
19		MCC_Mp:	404 (India)

Coding: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10
01 E7 03 A3 E5 F9 63 00 89 01

20 4.1.3.3 EF_{AD} (Administrative Data)

21 Logically: Normal operation
22 No additional information

Coding: B1 B2 B3
00 00 00

23 4.1.3.4 EF_{CSIM_ST} (CSIM Service Table)

24 Logically: The following table lists the logical values.

Service	Description	Available
n1	Local Phone book	Yes
n2	Fixed Dialing Numbers (FDN)	Yes
n3	Extension 2	Yes
n4	Service Dialing Numbers (SDN)	No
n5	Extension 3	No
n6	Short Message Storage	Yes
n7	Short Message Parameters	Yes
n8	HRPD	Yes
n9	Category Program for BC-SMS	No
n10	CDMA Home Provider Name	Yes
n11	Data Download via SMS Broadcast (for CCAT)	No
n12	Data Download via SMS-PP (for CCAT)	No
n13	Call Control (for CCAT)	No
n14	3GPD-SIP	Yes
n15	3GPD-MIP	Yes
n16	AKA	Yes
n17	IP-based Location Services (LCS)	No
n18	BCMCS	No
n19	Multimedia Messaging (MMS)	Yes
n20	Extension 8	Yes
n21	MMS User Connectivity Parameters	Yes
n22	Application Authentication	No
n23	Group Identifier Level 1	No
n24	Group Identifier Level 2	No
n25	De-Personalization Control Keys	No
n26	Cooperative Network List	No
n27	Outgoing Call Information (OCI)	No
n28	Incoming Call Information (ICI)	No
n29	Extension 5	No
n30	Multimedia Storage	No
n31	Image (EF _{IMG})	No
n32	Enabled Services Table	Yes
n33	Capability Configuration Parameters (CCP)	No
n34	SF_EUIMID-based EUIMID	Yes

Service	Description	Available
n35	Messaging and 3GPD Extensions	Yes
n36	Root Certificates	Yes
n37	WAP Browser	Yes
n38	Java	Yes
n39	Reserved for CDG	No
n40	Reserved for CDG	No
n41	IPv6	No

1

Coding: B1 B2 B3 B4 B5 B6
E7 62 1C 80 3E 00

2

3 4.1.3.5 EF_{EST} (Enable Service Table)

4 Logically: Fixed Dialing Numbers (FDN) disabled.

Coding: B1
00

5 4.1.3.6 EF_{OTA} (OTASP/OTAPA Features)

6 Logically: Number of features: 6
7 DATA_P_REV: '02'
8 A_KEY_P_REV: '03'
9 SSPR_P_REV: '03'
10 SPL_P_REV: '01'
11 OTASP_P_REV: '01'
12 MMSS_P_REV: '01'

Coding: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
06 00 02 01 03 02 03 03 01 04 01 0B

B13
01

13 4.1.3.7 EF_{RUIMID} (UIM_ID)

14 Logically: Pseudo-UIMID

Coding: B1 B2 B3 B4 B5 B6 B7 B8
04 E1 37 07 80 FF FF FF

1 4.1.3.8 EF_{MCCRP} (ME-specific Configuration Request Parameters)

2 Logically: SCM – 0
 3 MOB_P_REV – 0
 4 Local Control for Analog – 0
 5 Local Control for CDMA – 0

Coding: B1 B2 B3
 00 00 00

6 4.1.3.9 EF_{ACCOLC} (Access Overload Class ACCOLCp)

7 Logically: 0 – Derived from last digit of IMSI_M

Coding: B1
 00

8 4.1.3.10 EF_{PRL} (Preferred Roaming List)

9 Logically: Size – 18 bytes
 10 PRL ID – 0
 11 Preferred only – 1
 12 Default roaming indication – 0
 13 Number of Acquisition Records – 1
 14 Number of system records – 1

Coding: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
 00 12 00 00 80 00 40 01 21 00 02 80

B13 B14 B15 B16 B17 B18
 00 50 00 00 6E DB

15 4.1.3.11 EF_{EPRL} (Extended Preferred Roaming List)

16 Logically: Size – 52 bytes
 17 PRL ID – 666
 18 Current Protocol Revision – 3
 19 Preferred only – 1
 20 Default roaming indication – 1
 21 Number of acquisition records – 3
 22 Number of records in the Common Subnet Table – 0
 23 Number of system records – 2

Coding: B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
 00 34 02 9A 03 80 80 C0 00 01 80 03

B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23 B24
 02 0B 09 0B 02 02 94 06 02 09 19 50

B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
40	01	00	02	00	04	05	00	00	38	F0	08
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
00	02	80	00	50	60	11	00	02	00	04	05
B49	B50	B51	B52								
00	00	21	12								

- 1 4.1.3.12 EF_{ADN} (Abbreviated Dialing Number)
- 2 See section 5.1.10 of [4].
- 3 4.1.3.13 EF_{PBR} (Phone Book Reference file) and Related EFs
- 4 See section 8.1 of [6] for EF_{PBR} and related EFs.
- 5 4.1.3.14 EF_{CDMAHOME} (CDMA Home SID, NID)
- 6 See section 5.1.5 of [4].
- 7 4.1.3.15 EF_{USGIND} (UIM_ID/SF_EUIMID Usage Indicator)
- 8 See section 5.1.2 of [4].
- 9 4.1.3.16 EF_{ESN_MEID_ME} (ESN_ME)
- 10 See section 5.1.4 of [4].
- 11 4.1.3.17 EF_{SPN} (CDMA Home Service Provider Name)
- 12 See section 5.1.24 of [4].
- 13 4.1.3.18 EF_{SMSCAP} (SMS Capabilities)
- 14 See section 5.1.12 of [4].
- 15 4.1.3.19 EF_{SMSP} (SMS Parameters)
- 16 See section 5.1.13 of [4].
- 17 4.1.3.20 EF_{SIPUPP} (SimpleIP User Profile Parameters)
- 18 See section 5.1.14 of [4].
- 19 4.1.3.21 EF_{SIPUPPExt} (SimpleIP User Profile Parameters Extension)
- 20 See section 5.1.15 of [4].
- 21 4.1.3.22 EF_{SIPPAPSS} (Simple IP PAP SS)
- 22 See section 5.1.16 of [4].
- 23 4.1.3.23 Simple IP CHAP SS
- 24 See section 5.1.17 of [4].

- 1 4.1.3.24 EF_{DGC} (Data Generic Configurations)
2 See section 5.1.18 of [4].
- 3 4.1.3.25 EF_{MIPUPP} (Mobile IP User Profiles)
4 See section 5.1.19 of [4].
- 5 4.1.3.26 EF_{MIPUPPExt} (Mobile IP User Profiles Extension)
6 See section 5.1.20 of [4].
- 7 4.1.3.27 Mobile IP SS
8 See section 5.1.21 of [4].
- 9 4.1.3.28 EF_{MIPFlags} (Mobile IP Flags)
10 See section 5.1.22 of [4].
- 11 4.1.3.29 EF_{3GPDOPM} (3GPD Operation Mode)
12 See section 5.1.23 of [4].
- 13 4.1.3.30 EF_{AppLabels} (Application Labels)
14 See section 5.1.25 of [4].
- 15 4.1.3.31 EF_{Model} (Device Model Information)
16 See section 5.1.26 of [4].
- 17 4.1.3.32 EF_{ECC} (Emergency Call Codes)
18 See section 5.1.27 of [4].
- 19 4.1.3.33 EF_{HRPDCAP} (HRPD Capabilities)
20 See section 5.1.28 of [4].
- 21 4.1.3.34 EF_{HRPDUPP} (HRPD Access Authentication User Profile Parameters)
22 See section 5.1.29 of [4].
- 23 4.1.3.35 HRPD Access Authentication CHAP SS
24 See section 5.1.30 of [4].
- 25 4.1.3.36 EF_{WAPBrowserCP} (WAP Browser Connectivity Parameters)
26 See section 5.1.31 of [4].
- 27 4.1.3.37 EF_{WAPBrowserBM} (WAP Browser Bookmarks)
28 See section 5.1.32 of [4].
- 29 4.1.3.38 EF_{MMSN} (MMS Notification)
30 See section 5.1.33 of [4].

1 4.1.3.39 EF_{MMSICP} (MMS Issuer Connectivity Parameters)

2 See section 5.1.34 of [4].

3 4.1.3.40 EF_{MMSUP} (MMS User Preferences)

4 See section 5.1.35 of [4].

5 4.1.3.41 EF_{MMSConfig} (MMS Configuration)

6 See section 5.1.36 of [4].

7 4.1.3.42 EF_{RC} (Root Certificates)

8 See section 5.1.38 of [4].

9 4.1.3.43 EF_{JDL} (Java Download URL)

10 See section 5.1.37 of [4].

11 4.1.4 **Default PINs**

12 4.1.4.1 PIN

13 Key reference: 01

14 Logically: 2468

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

15 4.1.4.2 PIN2

16 Key reference: 81

17 Logically: 3579

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

18 4.1.4.3 Unblock PIN

19 Key reference: 01

20 Logically: 13243546

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

21 4.1.4.4 Unblock PIN2

22 Key reference: 81

23 Logically: 08978675

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

1 4.1.4.5 Universal PIN

2 Key reference: 11

3 Logically: 2839

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
	32	38	33	39	FF	FF	FF	FF

4 4.1.4.6 Unblock Universal PIN

5 Key reference: 11

6 Logically: 02030405

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
	30	32	30	33	30	34	30	35

7 **4.2 Definition of FDN CSIM**

8 The FDN test cases require a different configuration from the one described in the section 4.1.
 9 For that purpose, a default FDN CSIM is defined. In general, the values of the FDN CSIM are
 10 identical to the default CSIM, with the following exceptions.

11 **4.2.1 Values of the EF's (FDN UICC)**

12 4.2.1.1 EF_{EST} (Enable Service Table)

13 Logically: Fixed Dialing Numbers activated.

Coding:	B1
	01

14 4.2.1.2 EF_{FDN} (Fixed Dialing Numbers)

15 See section 4.2.1.3 of [6].

16 **4.3 Common Initial Conditions**

17 The following initial conditions are applicable to all tests unless otherwise stated in a test:

- 18 • The ME is connected to the NS.
- 19 • The ME is connected to the CS (or has an appropriately programmed CSIM).
- 20 • The CS contains the default file structure defined in section 4.1.
- 21 • Both the NS and CS are powered on.

22 Individual tests may contain additional conditions.

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1 **5 ME TEST PROCEDURES**

2 The test cases in this chapter are unique to an ME conforming with a CSIM. Chapter 0
3 contains the test cases that are in common with an ME conforming with an R-UIM [4].

4 In general, for each test procedure, the following five (5) subsections are included:

- 5 1) Definition
- 6 2) Traceability
- 7 3) Initial Conditions
- 8 4) Procedure
- 9 5) Minimum Standard

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

11 **5.1 ME Interworking, Initialization and Session Termination**

12 5.1.1 **Definition**

13 An ME selects the CSIM application and properly initializes itself and the CSIM. The ME also
14 properly terminates the CSIM session and closes the CSIM application.

15 5.1.2 **Traceability**

16 For Interworking, see sections 6 and 7.1.1.1 of [1].

17 For Initialization, see section 7.1.1.2 of [1].

18 For Session Termination, see section 7.1.2 of [1].

19 5.1.3 **Initial Conditions**

20 None beyond the common initial conditions.

21 5.1.4 **Procedure**

- 22 1. Power on the ME.
- 23 2. Wait for the ME initialization to complete.
- 24 3. Verify that the ME performed the following:
 - 25 • Did not select DF_{CDMA} (the R-UIM);
 - 26 • Selected ADF-CSIM;
 - 27 • Read EF_{ECC};
 - 28 • Read EF_{PL};
 - 29 • Verified the user;
 - 30 • Read EF_{AD};
 - 31 • Read EF_{CSIM_ST};
 - 32 • Read EF_{EST};
 - 33 • Read EF_{OTA} if ME supports OTASP/OTAPA;
 - 34 • Read EF_{RUIMID};

- 1 • Sent the Store_ESN_MEID_ME command ($EF_{ESN_MEID_ME}$ has the ME's ESN_ME or
- 2 MEID);
- 3 • Wrote to EF_{MECRP} ;
- 4 • Read EF_{3GCIK} if ME supports AKA.
- 5 4. If supported by the ME, verify that the ME performed the following:
- 6 • Read EF_{SP} ;
- 7 • Read EF_{IMSI_M} and EF_{IMSI_T} ;
- 8 • Read EF_{ACCOLC} ;
- 9 • Read EF_{PRL} if ME supports only $SSPR_P_REV = 1$;
- 10 • Read EF_{EPRL} if ME supports $SSPR_P_REV \geq 3$;
- 11 • Wrote to EF_{Model} if EF_{Model} is present;
- 12 • Read EF_{MLPL} if ME supports $MMSS_P_REV \geq 1$;
- 13 • Read EF_{MSPL} if ME supports $MMSS_P_REV \geq 1$.
- 14 5. Verify that the ME sent a STATUS command with $P1 = '01'$.
- 15 6. Power off the ME.
- 16 7. When the ME sends a STATUS command with $P1 = '02'$ (Session Termination
- 17 Indications), verify that the ME performed the following:
- 18 • Wrote to EF_{3GCIK} if ME supports AKA.

19 5.1.5 **Minimum Standard**

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

21 **5.2 MSID, MCC, and IMSI**

22 Use the test procedure specified in section 2.6.1 of [5] with the following exceptions:

- 23 • Substitute "R-UIM" with "CSIM"
- 24 • Substitute "Removable UIM_ID_Usage Indicator" with "UIM ID usage indicator".

25 **5.3 PIN Handling**

26 Use all of the test procedures specified in section 6.1 of [6], substituting "Terminal" with "ME"
27 and "UICC simulator" with "CS".

28 **5.4 Fixed Dialing Number (FDN)**

29 Use all of the test procedures specified in sections 6.2.1 – 6.2.3 of [6] with the following
30 substitutions:

- 31 1) "USIM" and "SIM/USIM" with "CSIM"
- 32 2) "USS" and "SS" with "NS"
- 33 3) "Terminal" with "ME"

34 In addition, the appropriate NS settings shall be used in place of the GSM-specific settings
35 identified in [3] and the rehabilitation of EF_{LOCI} is not applicable.

1 **5.5 Global Service Redirection between Band Classes**

2 Use the test procedure specified in section 8.1.1 of [5].

3 **5.5.1 Minimum Standard**

4 Verify in steps d and h of the test procedure that the ME read EF_{ACCOLC}.

5 **5.6 Phone Book Procedures**

6 Use the test procedure specified in section 8.1 of [6], substituting “USIM” with “CSIM”.

7 **5.7 UICC Presence Detection**

8 Use the test procedure specified in section 8.4 of [6], substituting “generic call setup” with
9 “voice call setup” in section 8.4.4.2.

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1 **6 TESTS IN COMMON WITH R-UIM**

2 The test cases in this chapter are in common with the R-UIM [4]. For all the tests described in
 3 this chapter, use the Common Initial Conditions specified in section 4.3 of this document and
 4 not the Common Initial Conditions specified in section 5.2 of [4]. In all test cases, substitute
 5 “R-UIM” with “CSIM” in all references to [4]. Some test cases may require additional
 6 substitutions.

7 **6.1 MS Identification**

8 6.1.1 **Mobile Station Identifier**

9 Use the test procedure specified in section 6.1.1 of [4].

10 6.1.2 **MS Displaying the Roaming Indicator**

11 Use the test procedure specified in section 6.1.2 of [4].

12 **6.2 UIM ID/ESN_ME Selection**

13 6.2.1 **Removable UIM ID Usage Indicator**

14 Use the test procedure specified in section 6.2.1 of [4].

15 6.2.2 **ESN Management**

16 Use the test procedure specified in section 6.2.2 of [4].

17 6.2.3 **MEID Management**

18 Use the test procedure specified in section 6.2.3 of [4] but only for Initial Conditions A.

19 6.2.4 **EUIMID and MEID**

20 Use the test procedure specified in section 6.2.4 of [4].

21 **6.3 Security-related commands**

22 6.3.1 **SSD Update**

23 Use the test procedure defined in section 6.3.1 of [4].

24 6.3.2 **Authentication Calculation for Global Challenge**

25 Use the test procedure defined in section 6.3.2 of [4] with the additional substitution of “Run
 26 CAVE” with “Authenticate – Run CAVE”.

27 6.3.3 **Unique Challenge While the Mobile Station is in Idle State**

28 Use the test procedure defined in section 6.3.3 of [4] with the additional substitution of “Run
 29 CAVE” with “Authenticate – Run CAVE”.

30 6.3.4 **Unique Challenge While the Mobile Station is in Mobile Station Control on the** 31 **Traffic Channel State**

32 Use the test procedure defined in section 6.3.4 of [4] with the additional substitution of “Run
 33 CAVE” with “Authenticate – Run CAVE”.

1 **6.3.5 Generate Key/VPM**

2 Use the test procedure defined in section 6.3.5 of [4] with the additional substitution of “Run
3 CAVE” with “Authenticate – Run CAVE”.

4 **6.4 Reserved**

5 **6.5 OTASP/OTAPA Functionality**

6 6.5.1 **PRL Download**

7 Use the test procedure specified in section 6.5.1 of [4].

8 6.5.2 **OTASP/OTAPA Commands**

9 Use the test procedure specified in section 6.5.2 of [4].

10 6.5.3 **EPRL Download**

11 Use the test procedure specified in section 6.5.3 of [4].

12 **6.6 Reserved**

13 **6.7 Reserved**

14 **6.8 Reserved**

15 **6.9 Reserved**

16 **6.10 Reserved**

17 **6.11 Reserved**

18 **6.12 Reserved**

19 **6.13 Reserved**

20 **6.14 Reserved**

21 **6.15 Abbreviated Dialing Numbers (ADN)**

22 Use the test procedure specified in section 6.15 of [4].

23 **6.16 Reserved**

24 **6.17 Reserved**

25 **6.18 Reserved**

26 **6.19 Reserved**

27 **6.20 Reserved**

1 **6.21 Reserved**

2 **6.22 Suggested Slot Cycle Index**

3 Use the test procedure specified in section 6.22 of [4].

4 **6.23 Service Provider Name**

5 Use the test procedure specified in section 6.23 of [4].

6 **6.24 Reserved**

7 **6.25 Application Labels**

8 6.25.1 **Application Labels Present on CSIM**

9 Use the test procedure specified in section 6.25.1 of [4].

10 6.25.2 **Application Labels Not Present on CSIM**

11 Use the test procedure specified in section 6.25.2 of [4].

12 **6.26 Device Model Information**

13 Use the test procedure specified in section 6.26 of [4].

14 **6.27 Emergency Numbers**

15 Use the test procedure specified in section 6.27 of [4].

16 **6.28 SMS Capabilities**

17 6.28.1 **SMS Retries**

18 Use the test procedure specified in section 6.28.1 of [4].

19 6.28.2 **Sending SMS on Access Channel**

20 Use the test procedure specified in section 6.28.2 of [4].

21 6.28.3 **Sending SMS on Traffic Channel**

22 Use the test procedure specified in section 6.28.3 of [4].

23 6.28.4 **Sending EMS messages**

24 Use the test procedure specified in section 6.28.4 of [4].

25 **6.29 SMS Messages on CSIM**

26 6.29.1 **Automatically Storing Received SMS in CSIM**

27 Use the test procedure specified in section 6.29.1 of [4].

28 6.29.2 **Saving SMS in CSIM**

29 Use the test procedure specified in section 6.29.2 of [4].

1 **6.29.3 Reading SMS from CSIM**

2 Use the test procedure specified in section 6.29.3 of [4].

3 **6.29.4 Deleting SMS in CSIM**

4 Use the test procedure specified in section 6.29.4 of [4].

5 **6.30 SMS Parameters on CSIM**

6 **6.30.1 Saving SMS Parameters in CSIM**

7 Use the test procedure specified in section 6.30.1 of [4].

8 **6.30.2 Reading SMS Parameters in CSIM**

9 Use the test procedure specified in section 6.30.2 of [4].

10 **6.30.3 Deleting SMS Parameters in CSIM**

11 Use the test procedure specified in section 6.30.3 of [4].

12 **6.31 SMS Status on CSIM**

13 Use the test procedure specified in section 6.31 of [4].

14 **6.32 Simple IP**

15 **6.32.1 PAP and CHAP Authentication**

16 Use the test procedure specified in section 6.32.1 of [4].

17 **6.32.2 Multiple User Profiles**

18 Use the test procedure specified in section 6.32.2 of [4].

19 **6.32.3 Prioritization among User Profiles**

20 Use the test procedure specified in section 6.32.3 of [4].

21 **6.33 Mobile IP**

22 **6.33.1 Mobile IP Registration Retries**

23 Use the test procedure specified in section 6.33.1 of [4].

24 **6.33.2 Mobile IP Re-registration Threshold**

25 Use the test procedure specified in section 6.33.2 of [4].

26 **6.33.3 Mobile IP to SimpleIP Fallback**

27 Use the test procedure specified in section 6.33.3 of [4].

28 **6.33.4 Mobile IP MN-HA 2002bis Authentication**

29 Use the test procedure specified in section 6.33.4 of [4].

1 **6.33.5 Mobile IP Pre Rev 6 Handoff Optimization**

2 Use the test procedure specified in section 6.33.5 of [4].

3 **6.33.6 Mobile IP PPP Re-sync during Hand-down from 1xEV-DO Rev 0 to 1x**

4 Use the test procedure specified in section 6.33.5 of [4].

5 **6.33.7 Mobile IP Re-registration for Extending Mobile IP address lifetime**

6 Use the test procedure specified in section 6.33.5 of [4].

7 **6.34 Data Configurations**

8 **6.34.1 Data Dormant Mode Timer**

9 Use the test procedure specified in section 6.34.1 of [4].

10 **6.34.2 Hysteresis Activation Time**

11 Use the test procedure specified in section 6.34.2 of [4].

12 **6.34.3 EPZID**

13 Use the test procedure specified in section 6.34.3 of [4].

14 **6.35 HRPD Access Authentication**

15 Use the test procedure specified in section 6.35 of [4].

16 **6.36 WAP Browser Connectivity Parameters**

17 Use the test procedure specified in section 6.36 of [4].

18 **6.37 WAP Browser Bookmarks**

19 Use the test procedure specified in section 6.37 of [4].

20 **6.38 MMS Issuer Connectivity Parameters**

21 Use the test procedure specified in section 6.38 of [4].

22 **6.39 MMS Configurations**

23 **6.39.1 Maximum Message Size**

24 Use the test procedure specified in section 6.39.1 of [4].

25 **6.39.2 MMS Retries**

26 Use the test procedure specified in section 6.39.2 of [4].

27 **6.39.3 MMSC Timeout**

28 Use the test procedure specified in section 6.39.2 of [4].

1 **6.40 MMS Notifications**

2 6.40.1 **Reading and Using MMS Notification in CSIM**

3 Use the test procedure specified in section 6.40.1 of [4].

4 6.40.2 **Automatically Storing MMS Notification in CSIM**

5 Use the test procedure specified in section 6.40.2 of [4].

6 6.40.3 **Forwarding MMS Notifications**

7 Use the test procedure specified in section 6.40.3 of [4].

8 6.40.4 **Deleting MMS Notification from CSIM**

9 Use the test procedure specified in section 6.40.4 of [4].

10 **6.41 MMS User Preferences**

11 6.41.1 **Reading and Using MMS User Preferences**

12 Use the test procedure specified in section 6.41.1 of [4].

13 6.41.2 **Updating MMS User Preferences**

14 Use the test procedure specified in section 6.41.2 of [4].

15 **6.42 Root Certificates**

16 Use the test procedure specified in section 6.42 of [4].

17 **6.43 Java**

18 Use the test procedure specified in section 6.43 of [4].

1 **Appendix A APPLICABILITY MATRIX (INFORMATIVE)**

2 The following table summarizes the applicability of test cases in terms of testing the ME with a
 3 CSIM having a particular C.S0065 revision.

Test Case	C.S0065		
	-0	-A	-B
5.1 ME Initialization	No	No	Yes
5.2 MSID, MCC, and IMSI	Yes	Yes	Yes
5.3 PIN Handling	Yes	Yes	Yes
5.4 Fixed Dialing Number (FDN)	Yes	Yes	Yes
5.5 Global Service Redirection between Band Classes	Yes	Yes	Yes
5.6 Phone Book Procedures	Yes	Yes	Yes
5.7 UICC Presence Detection	No	No	Yes
6.1.1 Mobile Station Identifier	Yes	Yes	Yes
6.1.2 MS Displaying the Roaming Indicator	Yes	Yes	Yes
6.2.1 Removable UIM_ID Usage Indicator	Yes	Yes	Yes
6.2.2 ESN Management	Yes	Yes	Yes
6.2.3 MEID Management	Yes	Yes	Yes
6.2.4 EUIMID and MEID	Yes	Yes	Yes
6.3.1 SSD Update	Yes	Yes	Yes
6.3.2 Authentication Calculation for Global Challenge	Yes	Yes	Yes
6.3.3 Unique Challenge While the Mobile Station is in Idle State	Yes	Yes	Yes
6.3.4 Unique Challenge While the Mobile Station is in Mobile Station Control on the Traffic Channel State	Yes	Yes	Yes
6.3.5 Generate Key/VPM	Yes	Yes	Yes
6.5.1 PRL Download	Yes	Yes	Yes
6.5.2 OTASP/OTAPA Commands	Yes	Yes	Yes
6.5.3 EPRL Download	Yes	Yes	Yes
6.15 Abbreviated Dialing Numbers (ADN)	Yes	Yes	Yes
6.22 Suggested Slot Cycle Index	Yes	Yes	Yes
6.23 Service Provider Name	Yes	Yes	Yes
6.25.1 Application Labels Present on CSIM	No	Yes	Yes
6.25.2 Application Labels Not Present on CSIM	No	Yes	Yes
6.26 Device Model Information	No	Yes	Yes
6.27 Emergency Numbers	Yes	Yes	Yes

Test Case	C.S0065		
	-0	-A	-B
6.28.1 SMS Retries	No	Yes	Yes
6.28.2 Sending SMS on Access Channel	No	Yes	Yes
6.28.3 Sending SMS on Traffic Channel	No	Yes	Yes
6.28.4 Sending EMS messages	No	Yes	Yes
6.29.1 Automatically Storing Received SMS in CSIM	Yes	Yes	Yes
6.29.2 Saving SMS in CSIM	Yes	Yes	Yes
6.29.3 Reading SMS from CSIM	Yes	Yes	Yes
6.29.4 Deleting SMS in CSIM	Yes	Yes	Yes
6.30.1 Saving SMS Parameters in CSIM	Yes	Yes	Yes
6.30.2 Reading SMS Parameters in CSIM	Yes	Yes	Yes
6.30.3 Deleting SMS Parameters in CSIM	Yes	Yes	Yes
6.31 SMS Status on CSIM	Yes	Yes	Yes
6.32.1 PAP and CHAP Authentication	Yes	Yes	Yes
6.32.2 Multiple User Profiles	No	Yes	Yes
6.32.3 Prioritization among User Profiles	No	Yes	Yes
6.33.1 Mobile IP Registration Retries	Yes	Yes	Yes
6.33.2 Mobile IP Re-registration Threshold	Yes	Yes	Yes
6.33.3 Mobile IP to SimpleIP Fallback	Yes	Yes	Yes
6.33.4 Mobile IP MN-HA 2002bis Authentication	No	Yes	Yes
6.33.5 Mobile IP Pre Rev 6 Handoff Optimization	No	Yes	Yes
6.33.6 Mobile IP PPP Re-sync during Hand-down from 1xEV-DO Rev 0 to 1x	No	Yes	Yes
6.33.7 Mobile IP Re-registration for Extending Mobile IP address lifetime	No	Yes	Yes
6.34.1 Data Dormant Mode Timer	No	Yes	Yes
6.34.2 Hysteresis Activation Time	No	Yes	Yes
6.34.3 EPZID	No	Yes	Yes
6.35 HRPD Access Authentication	Yes	Yes	Yes
6.36 WAP Browser Connectivity Parameters	No	Yes	Yes
6.37 WAP Browser Bookmarks	No	Yes	Yes
6.38 MMS Issuer Connectivity Parameters	Yes	Yes	Yes
6.39.1 Maximum Message Size	No	Yes	Yes
6.39.2 MMS Retries	No	Yes	Yes
6.39.3 MMSC Timeout	No	Yes	Yes
6.40.1 Reading and Using MMS Notification in CSIM	Yes	Yes	Yes

Test Case	C.S0065		
	-0	-A	-B
6.40.2 Automatically Storing MMS Notification in CSIM	Yes	Yes	Yes
6.40.3 Forwarding MMS Notifications	Yes	Yes	Yes
6.40.4 Deleting MMS Notification from CSIM	Yes	Yes	Yes
6.41.1 Reading and Using MMS User Preferences	Yes	Yes	Yes
6.41.2 Updating MMS User Preferences	Yes	Yes	Yes
6.42 Root Certificates	No	Yes	Yes
6.43 Java	No	Yes	Yes

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