ETSI TS 151 010-4 V10.0.0 (2014-07)



Digital cellular telecommunications system (Phase 2+);
Mobile Station (MS) conformance specification;
Part 4: Subscriber Identity Module (SIM)
application toolkit conformance test specification
(3GPP TS 51.010-4 version 10.0.0 Release 10)



Reference
RTS/TSGC-0651010-4va00

Keywords
GSM

ETSI

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Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

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Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document describes the technical characteristics and methods of test for testing the SIM Application Toolkit implemented in Mobile Stations (MS) for the Pan European digital cellular communications system and Personal Communication Systems (PCS) operating in the 450 MHz, 480 MHz, 700 MHz, 750 MHz, 850 MHz, 900 MHz, 1 800 MHz and 1 900 MHz frequency band (GSM 400, GSM 700, GSM 750, GSM 850, GSM 900, DCS 1 800 and PCS 1 900) within the European digital cellular telecommunications system, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [19] and ETS 300 406 [20].

The present document is valid for MS implemented according to GSM Phase2+ R96, or R97, or R98, or R99.

The present document covers the minimum characteristics considered necessary in order to provide sufficient performance for mobile equipment and to prevent interference to other services or to other users, and to the PLMNs.

It does not necessarily include all the characteristics which may be required by a user or subscriber, nor does it necessarily represent the optimum performance achievable.

The present document is part of the GSM-series of technical specifications. The present document neither replaces any of the other GSM technical specifications or GSM related ETSs or ENs, nor is it created to provide full understanding of (or parts of) the GSM 400, GSM 700, GSM 850, GSM 900, DCS1800 and PCS1900 systems . The present document lists the requirements, and provides the methods of test for testing the SIM Application Toolkit implemented in a MS for conformance to the GSM standard.

For a full description of the system, reference should be made to all the GSM technical specifications or GSM related ETSs or ENs. Clause 2 provides a complete list of the GSM technical specifications, GSM related ETSs, ENs, and ETRs, on which this conformance test specifications is based.

If there is a difference between this present conformance document, and any other GSM technical specification or GSM related ETS or EN, or 3GPP TS, then the other GSM technical specification or GSM related ETS or EN or 3GPP TS shall prevail.

Normative requirements for the SIM and SIM Application Toolkit are only specified up to Rel-4. The present document is only available in this release for allowing maintenance of test cases. The core features related to those test cases remain applicable only to the releases in which they have been specified.

The conformance test aspects for this Release are identical with those for the latest Release of TS 51.010-4 [23].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the relevant Release*.
 - For a GSM Phase 2+ Release 1999 MS, references to GSM documents are to version 8.x.y (for 01.-series to 12.-series) or (3.x.y for 21.-series to 35.-series), when available.
 - For a GSM Phase 2+ Release 1998 MS, references to GSM documents are to version 7.x.y, when available.
 - For a GSM Phase 2+ Release 1997 MS, references to GSM documents are to version 6.x.y, when available.
 - For a GSM Phase 2+ Release 1996 MS, references to GSM documents are to version 5.x.y., when available.

Note: References to 3GPP Technical Specifications and Technical Reports throughout the present document shall be interpreted according to the Release shown in the formal reference in this clause, based upon the Release of the implementation under test.

EXAMPLE: References for a R99 MS shall be interpreted as: [1] 3GPP TS 21.905 R99 [2] 3GPP TS 22.001 R99 etc. [1] Void. [2] Void. [3] Void. [4] Void. Void. [5] Void. [6] Void. [7] Void. [8] [9] Void. [10] Void. [11] Void. Void. [12] [13] Void. [14] Void. Void. [15] [16] Void. Void. [17a] [17b] Void. Void. [18] [19] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements". [20] ETSI ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology". Void. [21] Void. [22] 3GPP TS 51.010-4: "Mobile Station (MS) conformance specification; Part 4: Subscriber Identity [23]

3 Void

Module (SIM) application toolkit conformance test specification (Release 11)".

4	Void			
5	Void			
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10	Void			
11 - 2	26 Not used			
27	Void			

Annex A: Void

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Annex C: Void

Annex D: Void

Annex E: Void

Annex F (informative): Change History

TSG#	WG TD#	CR	Rev	Subject	New Ver
SMG#	-	-	-	Approved as release 1996 at SMG#30	5.0.0
30					
		A001	-	Corrections to SIM Application Toolkit Test Specification	5.1.0
		4000	-	Version update to 5.1.1 for Publication	5.1.1
		A002	-	Editorial and coding corrections	5.2.0
		A003	-	Correction of wrong coding for SIM Application Toolkit test 27.22.4.2	
		A004 A005	-	Corrections for Test Case 27.22.5.1 (SMS-PP Data Download)	5.3.0 5.4.0
		A005	-	Correction of wrong coding for SIM Application Toolkit 27.22 Corrections for Test Case 27.22.4.7 (REFRESH)	5.4.0
		A006	-	Corrections for Test Case 27.22.4.7 (REFRESH) Corrections for Test Case 27.22.5.2 (SMS-CB Data Download)	5.5.0
		A007		Upgrade of the MS SAT test specification to Release 99	8.1.0
		A010r		Addition of Terminal Profile information, suppression of PLAY TONE	
		1		Test sequence 1.2	0.2.0
		A011	-	References to 11.10-1 replaced. Reference to 11.10-2 removed.	8.3.0
		A012	-	Corrections to Send Short Message, Sequence 1.4	8.4.0
		A013	-	Redial in Set Up Call	8.4.0
		A014	-	Correction to Terminal Response: Set Up Call 1.7.1	8.4.0
		A015	-	Select Item: Support of "No response from user"	8.4.0
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		A020	-	Essential corrections to Get Inkey test cases	
		A021	-	Essential corrections to Get Input test cases	8.5.0
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		A025	-	Essential corrections to Polling off test case	8.5.0
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		A027	-	Essential corrections to Send Short message test cases	8.5.0
		A028	-	Essential corrections to Language Notification test cases	8.5.0
		A029	-	Essential corrections to Send SS test cases	
		A030	-	Essential corrections to Set Up Call test cases	8.5.0
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		A032	-	Essential correction to Set Up Idle Mode Text test cases	8.5.0
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		A036	-	Essential corrections to Send DTMF test cases	0.5.0
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CT-31 CP-060013 A140 - Essential correction of Provide Local Information (IMEI) test 8.15.0 CT-31 CP-060013 A143 - Essential correction in SEQ 1.8 of clause 27.22.8 8.15.0 CT-31 CP-060013 A149 - Essential correction on 27.22.7.3.1 call Disconnected Event 8.15.0 CT-31 CP-060015 A154 - Essential correction of Channel Data length in clause 27.22.4.30 8.15.0 CT-31 CP-060015 A156 - Essential Correction in TERMINAL RESPONSE coding of clause 27.22.4.31 8.15.0 CT-31 CP-060015 A156 - Essential correction to Timer Expiration tests 8.15.0 CT-31 CP-060015 A155 - BER-TLV suppressions 8.15.0 CT-31 CP-060016 A155 - Creation of a new TS 51.10-4, Rel-4 specification coming from TS 11.10-4 Rel-4 Specification coming from TS 11.10	CT-31	CP-060013	A139	-	Deletion of Send Data test sequence	8.15.0
CT-31 CP-060013 A144 - Essential correction on 27.22.7.3.1 Call Disconnected Event 8.15.0 CT-31 CP-060015 A154 - Essential correction of Channel Data length in clause 27.22.4.30 8.15.0 CT-31 CP-060015 A154 - Essential Correction in TERMINAL RESPONSE coding of clause 27.22.4.31 8.15.0 CT-31 CP-060015 A153 - Essential corrections to Timer Expiration tests 8.15.0 CT-31 CP-060016 A153 - BER-TLV suppressions 8.15.0 CT-31 CP-060016 A155 - Creation of a new TS 51.10-4, Rel-4 specification coming from TS 11.10-4 R99 51.010-4v4.0.0 CT-32 CP-060236 0001 - Essential correction to prevent optional ME features being mandatorily tested 4.1.0 CT-32 CP-060242 0002 - Essential correction of Ell tests 4.1.0 CT-32 CP-060242 0002 - Essential correction of TS (2.2.4.13.1 SET UP CALL, seq 1.4 4.1.0 CT-32 CP-060242 0005 - Essential correction of Second card reader test applica	CT-31	CP-060013	A140	-	Essential correction of Provide Local Information (IMEI) test	8.15.0
CT-31 CP-060013 A149 Essential correction of Channel Data length in clause 27.22.4.30 8.15.0 CT-31 CP-060015 A154 Essential Correction in TERMINAL RESPONSE coding of clause 27.22.4.31 8.15.0 CT-31 CP-060015 A156 Essential corrections to Timer Expiration tests 8.15.0 CT-31 CP-060015 A153 BER.TLV suppressions 8.15.0 CT-31 CP-060016 A155 Creation of a new TS 51.10-4, Rel-4 specification coming from TS 11.10-4 R99 51.010-4v4.0.0 CT-32 CP-060236 0001 Essential correction to prevent optional ME features being mandatorily tested 4.1.0 CT-32 CP-060242 0002 Essential correction of BIP tests 4.1.0 CT-32 CP-060242 0003 Essential correction in REGISTER 1.2B message coding of clause 27.22.4.11.1 SEND SS (normal) 4.1.0 CT-32 CP-060242 0005 Essential correction of Second card reader test applicability 4.1.0 CT-32 CP-060242 0006 Essential correction of Second card reader test applicability 4.1.0 CT-32 CP-060242 0006 Essential correcti	CT-31	CP-060013	A143	-	Essential Correction in SEQ 1.8 of clause 27.22.8	8.15.0
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	CP-060540		2	Essential correction of Result TLV handling	4.3.0
CT-34	CP-060540	0024	1	Essential correction of expected sequence in OPEN CHANNEL test case	4.3.0
CT-35	CP-070062	0032		Essential correction of Send USSD applicability	4.4.0
CT-35	CP-070062	0030	1	Essential correction of GPRS QoS parameter in BIP tests	4.4.0
	CP-070062	0036	1	Test execution recommendation for terminals supporting both, SAT and USAT	4.4.0
	CP-070063	0029		Essential correction of 27.22.5.2	4.4.0
	CP-070063	0027	1	Essential correction of Terminal Profile Support table	4.4.0
	CP-070063	0026	1	Essential correction of 27.22.4.13.1 Expected Sequence 1.7	4.4.0
	CP-070290	0037	-	Correction of reference to ISO/IEC 7816-3	4.5.0
	CP-070290	0038	1	Essential correction of test case applicability for 27.22.6.1	4.5.0
CT-36	CP-070290	0039	1	Essential correction on 27.22.8	4.5.0
-	-	-	-	MCC Table formatting throughout document (reduces page count)	4.5.0
	CP-070609	0040	-	Essential correction to 27.22.8	4.6.0
	CP-070610	0041	1	Essential correction of 27.22.6.2	4.6.0
	CP-070610	0042	-	Essential correction of 27.22.4.13.1, seq. 1.9	4.6.0
	CP-070609	0043	-	Essential Correction to insert a missing Carriage Return	4.6.0
	CP-070843	0044	1	Essential correction of 27.22.4.7.1, seq. 1.6	4.7.0
	CP-070843	0045	1	Essential correction of 27.22.8, seq. 1.3	4.7.0
	CP-070843	0046	1	Essential correction of 27.22.4.26.2.4.2, seq. 2.2	4.7.0
	CP-070843	0047	-	Correction to add optional support of Call Hold Supplementary Service	4.7.0
	CP-080170	0048	1	Essential correction to network dependency of several tests	4.8.0
	CP-080389	0050	1	Essential correction of icon test case applicability	4.9.0
CT-40	CP-080389	0052	3	Essential correction of test case applicability of 27.22.6.2 and 27.22.4.11	4.9.0
	CP-080590	0053	1	Essential correction of TC 27.22.4.11.1 Seq. 1.4B	4.10.0
CT-42	CP-080948	0055	-	Essential correction of TC 27.22.7.8.1 network dependency	4.11.0
	CP-080948	0056	-	Essential correction of GPRS QoS parameter in browser tests	4.11.0
CT-42	CP-080948	0056	-	Essential correction of 27.22.4.26.2 Seq. 2.2	4.11.0
CT-42	CP-080948	0056	-	Pre-conditions for Launch browser	4.11.0
CT-43	CP-080189	0059		Essential correction to 27.22.4.3.6 (GET INPUT (display of Icon)), sequence 6.1A	4.12.0
CT-43	CP-080189	0060		Essential correction to 27.22.4.11.2 and 27.22.4.11.3 (SEND SS)	4.12.0
	CP-080189	0061		Essential correction to 27.22.4.31 (GET CHANNEL STATUS) sequence 1.3	4.12.0
CT-43	CP-080189	0062		Essential correction 27.22.4.14 (POLLING OFF)	4.12.0
	CP-080189	0063	1	Essential correction to BIP tests - usage of ME's default channel identifier	4.12.0
CT-44	CP-090460	0064	1	Test case and test case applicability changes for terminals with reduced SAT capabilities	4.13.0
CT-45	CP-090720	0066		Essential correction of applicability and terminal profile table	4.14.0
-	CP-090720	0065	3	Essential correction to icon test applicability	4.14.0
		-	-	Correction of misimplementation of CR 0064	4.14.1
CT-47	CP-100179	0067	1	Correction of typo error	4.15.0
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01 02	<u>CP-110505</u>	0078		due to incorrect implementation of CR 0077	
	<u>CP-110505</u> <u>CP-110592</u>		1	due to incorrect implementation of CR 0077 Essential correction of Data Destination Address settings in BIP and Launch Browser tests	4.20.0
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CT-54 CT-54 CT-54	CP-110592 CP-110906 CP-110906	0080 0081 0079 0083	1 2	Essential correction of Data Destination Address settings in BIP and Launch Browser tests Essential correction to SMS-CB Applicability Essential correction to Play Tone test Correction to the condition ID of Table B.1 Test applicability correction of Open Channel with user rejection	4.21.0 4.21.0
CT-54 CT-54 CT-54 CT-55	CP-110592 CP-110906 CP-110906 CP-110906 CP-120151	0080 0081 0079 0083 0084	1 2 1	Essential correction of Data Destination Address settings in BIP and Launch Browser tests Essential correction to SMS-CB Applicability Essential correction to Play Tone test Correction to the condition ID of Table B.1 Test applicability correction of Open Channel with user rejection tests	4.21.0 4.21.0 4.21.0 4.22.0
CT-53 CT-54 CT-54 CT-54 CT-55 CT-56	CP-110592 CP-110906 CP-110906 CP-110906	0080 0081 0079 0083 0084	1 2 1	Essential correction of Data Destination Address settings in BIP and Launch Browser tests Essential correction to SMS-CB Applicability Essential correction to Play Tone test Correction to the condition ID of Table B.1 Test applicability correction of Open Channel with user rejection	4.21.0 4.21.0 4.21.0

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History

	Document history						
V10.0.0	July 2014	Publication					