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Technical Specification

**Digital cellular telecommunications system (Phase 2+);
Mobile Station (MS) conformance specification;
Part 4: Subscriber Identity Module (SIM)
application toolkit conformance test specification
(3GPP TS 11.10-4 version 8.15.0 Release 1999)**



Reference

RTS/TSGC-061110-4v8f0

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Foreword

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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.

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]-[18] Void.

[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".

[21] 3GPP TS 51.010-4 (Rel-4): "Mobile Station (MS) conformance specification; SIM application toolkit conformance specification".

3 Definitions and abbreviations

Void.

4 Requirements

The requirements of the present document are provided in 3GPP TS 51.010-4. [21].

Annex A (informative): Change History

Meeting/Date	WG doc	CR	Rev	Subject	New Ver
		-		Approved as release 1996 at SMG#30	5.0.0
		A001		Corrections to SIM Application Toolkit Test Specification	5.1.0
				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	5.3.0
		A004		Corrections for Test Case 27.22.5.1 (SMS-PP Data Download)	5.3.0
		A005		Correction of wrong coding for SIM Application Toolkit 27.22	5.4.0
		A006		Corrections for Test Case 27.22.4.7 (REFRESH)	5.5.0
		A007		Corrections for Test Case 27.22.5.2 (SMS-CB Data Download)	5.5.0
		A008		Upgrade of the MS SAT test specification to Release 99	8.1.0
		A010r1		Addition of Terminal Profile information, suppression of PLAY TONE Test sequence 1.2	8.2.0
		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
		A016		Correction of Emergency Call test cases	8.4.0
		A017		Essential corrections to default values for SIM Application Toolkit testing	
		A018	-	Clarification on comprehension required flag usage	8.5.0
		A019		Essential corrections to Display text test cases	
		A020		Essential corrections to Get Inkey test cases	
		A021	-	Essential corrections to Get Input test cases	8.5.0
		A022		Essential corrections to Set Up Menu test cases	
		A023		Essential corrections to Play Tone test cases	
		A024		Essential corrections to Poll Intervall test case	
		A025	-	Essential corrections to Polling off test case	8.5.0
		A026	-	Essential corrections to Provide Local Information test cases	8.5.0
		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
		A031		Essential corrections to Send USSD test cases	
		A032	-	Essential correction to Set Up Idle Mode Text test cases	8.5.0
		A033		Essential corrections to Power Off Card test case	
		A034		Essential corrections to Perform Card APDU test cases	
		A035		Essential correction to Get Reader Status test cases	
		A036		Essential corrections to Send DTMF test cases	
		A037	-	Essential corrections to CALL CONTROL BY SIM test cases	8.5.0
		A038	-	Essential corrections to CALL CONTROL BY SIM (Interaction with FDN/ BDN) test cases	8.5.0
		A039		Essential corrections to Select Item test cases	
		A040		Essential corrections to card reader status event download test cases	
		A041	-	Essential corrections to language selection and browser termination event download test cases	8.5.0
		A042	-	Essential corrections to Close Channel test cases	8.5.0
		A043	-	Essential corrections to Launch Browser test cases	8.5.0
		A044		Essential corrections to Open Channel test cases	
		A045		Essential corrections to Receive Data test cases	
		A046		Essential corrections to Send Data test cases	
		A047		Essential corrections to channel status event download test case	
		A048		Essential corrections to Get Channel Status test cases	
		A049		Essential corrections to CB data download test cases	
		A050	-	Essential corrections to location status, user activity and idle screen available event download test cases	8.5.0
		A051	-	Corrections in the REFRESH test sequences (with inclusion of T3-030535's contents)	8.5.0
		A052	-	Essential corrections to test requirement references	8.5.0
		A053		Essential corrections to CALL CONTROL BY SIM (supplementary services) test case	
		A054	-	Essential corrections to MT Call, Call connected and Call disconnected event download test cases	8.5.0

		A055	-	Introduction of "MO Short Message Control by SIM" envelope testing	8.6.0
		A056	-	Re-Introduction of changes already approved at the last T3.	8.6.0
		A057	-	Essential corrections	8.6.0
		A058	-	Essential corrections to 27.22.4.14 "POLLING OFF"	8.6.0
		A059	-	Essential corrections to Send DTMF test cases	8.6.0
		A060	-	Introduction of BIP testing in GPRS	8.6.0
		A061		Correction of image instance descriptor for colour icons	8.7.0
		A062		Essential correction on Terminal Profile for the BIP Inclusion of tests on Open Channel for GPRS, on the user confirmation	8.7.0
		A063		CR 11.10-4 Launch Browser test cases	8.7.0
		A064		CR 11.10-4 R99: Essential corrections	8.7.0
		A065		CR 11.10-4 R99: Essential correction of coding convention	8.7.0
		A071		Correction of Cell Broadcast message download test	8.8.0
		A066		Essential corrections	8.8.0
		A067		Support of GSM 700, GSM 850 and PCS 1900	8.8.0
		A068		Corrections of applicability table	8.8.0
		A070		Correction on allowing optional parameters in ENVELOPE(CALL CONTROL) command for call set-ups when testing Call Control procedures	8.8.0
		A069		Essential corrections to Call Control test cases	8.8.0
		A076	-	Essential corrections of Event Download test cases	8.9.0
		A073	-	Essential corrections	8.9.0
		A072	-	Clarification of call hang up in 27.22.4.5 Play Tone	8.9.0
		A074	-	Removal of misleading comment from Refresh SIM Reset tests	8.9.0
		A075	-	Correction of poll interval related tests	8.9.0
		A077	-	Correction of Send Short Message test case	8.10.0
		A078	-	Correction of Select Item test case	8.10.0
		A079	-	Correction of Language Notification test case	8.10.0
		A080	-	Correction of Select Item (Next action identifier) test case	8.10.0
		A081	-	Correction of PROFILE DOWNLOAD test case – incorrect P2	8.10.0
		A082	-	Correction of CALL CONTROL test cases	8.10.0
		A083	-	Incorrect specification of file codings	8.10.0
		A084	-	Correction of Refresh test case	8.10.0
		A085	-	Correction of MO SM CONTROL BY SIM test case	8.10.0
		A086	-	Correction of Errors	8.10.0
		A087	-	Clarification of PLAY TONE test case	8.10.0
		A088	-	Clarification of RECEIVE DATA test case	8.10.0
		A089	-	Corrections for Test Case 27.22.5.1 (SMS-PP Data Download)	8.10.0
		A090	-	Modification of 27.22.1 PROFILE DOWNLOAD	8.10.0
		A091	-	Correction of Set Up Idle Mode Text test case	8.10.0
		A092	-	Correction of Timer Management test cases	8.10.0
		A093	-	Essential Corrections on Launch Browser	8.10.0
TP-27	T3-050096	A094		Correction of terminal profile test	8.11.0
TP-27	T3-050097	A095		Correction of Set Up Call test	8.11.0
TP-27	T3-050098	A096		Essential Corrections	8.11.0
TP-27	T3-050099	A097		Correction of Call Connected Event test	8.11.0
TP-27	T3-050100	A098		Correction of Call Control test cases	8.11.0
TP-27	T3-050125	A099		Corrections of references	8.11.0
TP-27	T3-050155	A100		Clarification on LAUNCH BROWSER test case	8.11.0
TP-27	T3-050194	A101		Correction of network related tests	8.11.0
TP-27	T3-050195	A102		Correction of Timer Management test	8.11.0
TP-27	T3-050196	A103		Correction of coding of SS RETURN RESULT in 27.22.4.12 SEND USSD	8.11.0
TP-27	T3-050197	A104		Correction of Expected sequence 2.4 in section 27.22.4.22.2.4 SET UP IDLE MODE TEXT (icon support)	8.11.0
TP-27	T3-050198	A105		Correction on Timer Management test cases	8.11.0
CT-28	C6-050354	A106		Correction of coding in MT Call Even	8.12.0
CT-28	C6-050381	A107		Essential corrections	8.12.0
CT-28	C6-050382	A109		Too many digits in PCS 1900 for the Called Party BCD number	8.12.0
CT-29	C6-050629	A110		CR 11.10-4: Correction of applicability and terminal profile support tables	8.13.0
	C6-050631	A111		CR 11.10-4: Correction of Refresh tests	
	C6-050632	A112		CR 11.10-4: Correction of EF_BDN coding	
	C6-050634	A127		CR 11.10-4 R99: Essential correction to Terminal Profile table E.1	
	C6-050636	A113		CR 11.10-4: Incorrect Dialling Number string in clause 27.22.4.13.1 SEQ 1.9 for PCS 1900	
	C6-050640	A115		CR 11.10-4: Incorrect Ti Flag value for SET UP 1.4.1 in clause 27.22.4.16.1	
	C6-050642	A116		CR 11.10-4: Correction of TP-MR (TP Message Reference) of the SMS SUBMIT TPDU submitted to the SS (Network)	
	C6-050644	A117		CR 11.10-4: Corrections in the Logical description and BER encoding in clause 27.22.6.2 and 27.22.4.11	

	C6-050646	A118		CR 11.10-4: Incorrect DCS in SMS-CB data download tests	
	C6-050662	A119		CR 11.10-4: Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY SIM	
	C6-050664	A120		CR 11.10-4: Essential Corrections	
	C6-050671	A121		CR 11.10-4 R99: Essential corrections in clause 27.22.4.7.2 REFRESH (IMSI changing procedure)	
	C6-050672	A122		CR 11.10-4 R99: Incorrect SMS-PP 1.4.1 TPDU in clause 27.22.4.22.1	
	C6-050674	A123		CR 11.10-4 R99: Missing interactions in Bearer Independent Protocol test cases	
	C6-050669	A124		CR 11.10-4 R99: Applicability of TC 27.22.4.7.1 and TCs related to FDN and BDN	
	C6-050703	A126		Correction of CB message identifier	
	C6-050714	A125		Essential corrections in display icons Setup Menu and Select Item	
	none	none		editorial corrections due to the CRs approved at CP-29	8.13.1
CT-30	CP-050483	A114		Corrections of Set Up Call (second alpha identifier) test	8.14.0
		A129		Essential Corrections of Set Up Menu test	
		A130		Essential Corrections in clause 27.22.4.11	
		A131		Corrections to Select Item (icons support)	
		A132		27.22.7.4.1 Location Status Event (normal)	
		A134		Correction of applicability table	
		A135		Correction in SMS-PP 1.4.1 TPDU of clause 27.22.4.22.1	
		A136		Essential Corrections of SMS-PP download message in Refresh test case	
		A137		Essential Correction in MO SHORT MESSAGE CONTROL BY SIM Deletion of sequence 1.9	
		A138		Deletion of SEQ 1.3 in clause 27.22.4.13.1	
CT-31	CP-060014	A148		Essential Corrections in clause 27.22.4.11	8.15.0
		A151		Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY SIM	
		A147		Essential correction in SEQ 1.4 of clause 27.22.4.11.1 SEND SS (normal)	
		A146		Essential corrections of Run AT Command tests	
		A152		Essential corrections to SET UP CALL test sequences	
	CP-060012	A158		Essential correction of Refresh IMSI changing tests	
		A141		Essential correction of UCS2 related test case applicability	
		A142		Removal of SEQ 2.2 in clause 27.22.4.12.2	
		A150		Essential correction of Channel Data length in SEQ 1.1 of clause 27.22.4.30	
	CP-060013	A145		Essential correction of SMS-CB (data download) tests	
		A139		Deletion of Send Data test sequence	
		A140		Essential correction of Provide Local Information (IMEI) test	
		A143		Essential Correction in SEQ 1.8 of clause 27.22.8	
		A144		Essential correction on 27.22.7.3.1 Call Disconnected Event	
	CP-060015	A149		Essential correction of Channel Data length in clause 27.22.4.30	
		A154		Essential Correction in TERMINAL RESPONSE coding of clause 27.22.4.31	
A156			Essential corrections to Timer Expiration tests		
CP-060016	A153		BER-TLV suppressions		
	A157		Creation of null pointer to 51.010-4 Rel-4		

History

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