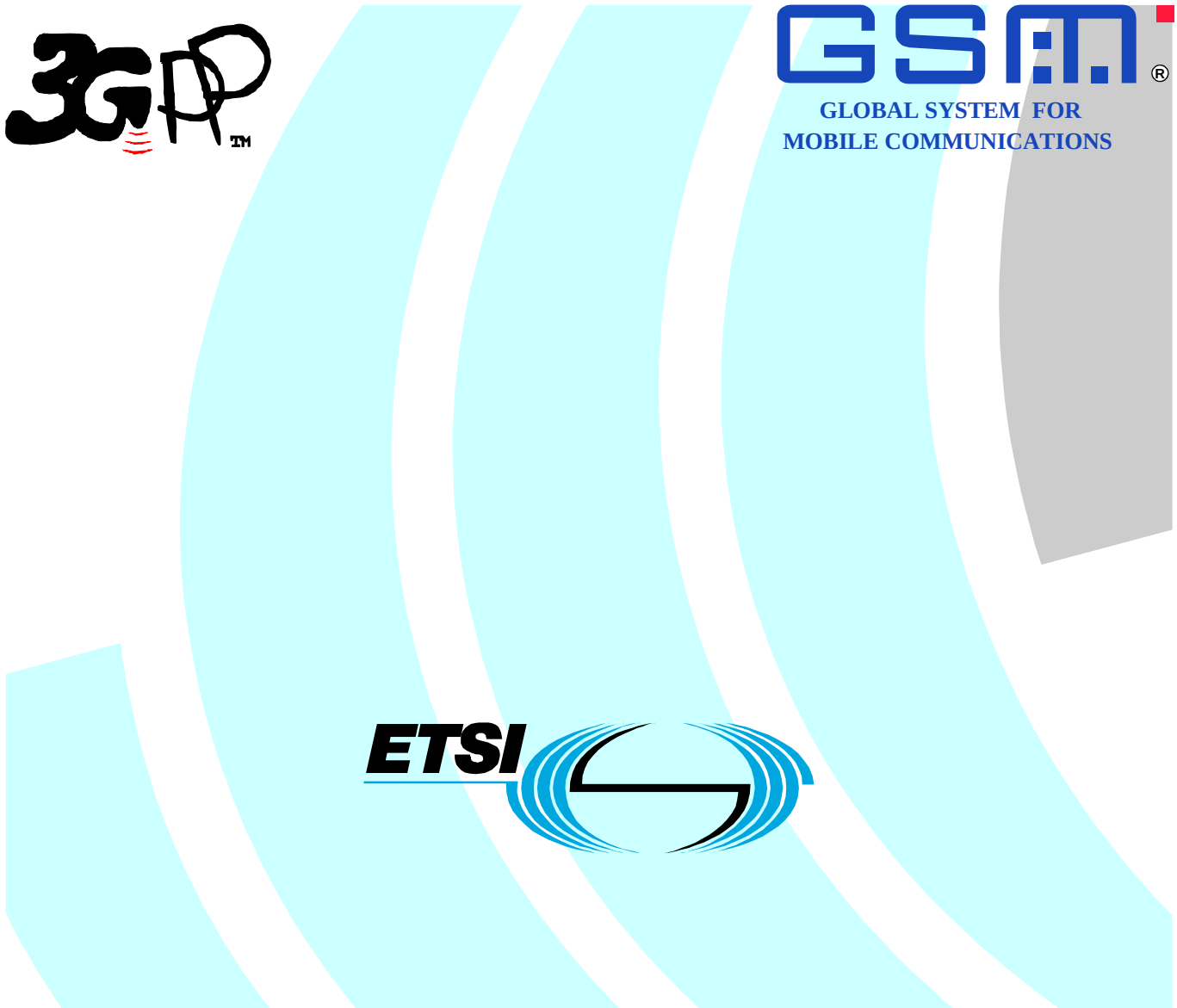
ETSI TS 151 010-5 V7.4.0 (2006-12)

Technical Specification

**Digital cellular telecommunications system (Phase 2+);
Mobile Station (MS) conformance specification;
Part 5: Inter-Radio-Access-Technology (RAT)
(GERAN / UTRAN) interaction Abstract Test Suite (ATS)
(3GPP TS 51.010-5 version 7.4.0 Release 7)**



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Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp .

Contents

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The present document describes the technical characteristics and methods of test for Mobile Stations (MSs), operating in the different frequency bands within the digital cellular telecommunications system.

The present document corresponds to technical specification 3GPP TS 51.010-5, covering the Digital cellular telecommunications system (3GPP Release 99, Release 4 , Release 5, Release 6 and Release 7) version 7.x.x.

The present document, contains Tree and Tabular Combined Notation (TTCN) for Mobile Station (MS) Inter-RAT (GERAN to UTRAN) service conformity specifications, for which Mobile Stations, within the digital cellular telecommunications system (3GPP Release 99, Release 4 , Release 5, Release 6 and Release 7), are tested for compliance.

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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.

Introduction

The present document describes the technical characteristics and methods of test for Mobile Stations (MSs) within the digital cellular telecommunications system.

The graphical form ATS

The electronic form of the graphical representation (TTCN.GR format) corresponding to the ATS for Layer 3, is contained in the Adobe Portable Document Format™ file IR_XXX.pdf where XXX corresponds to the current version.

The machine processable ATS

The electronic form of the machine processable file (TTCN.MP format) corresponding to the ATS for Layer 3, is contained in the file IR_XXX.mp where XXX corresponds to the current version.

The present document is part 5 of a multi-part 3GPP TS covering the digital cellular telecommunications system; Mobile Station (MS) conformance specification, as identified below:

Part 1: Conformance specification
Reference: 3GPP TS 51.010-1.

Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification.
Reference: 3GPP TS 51.010-2.

Part 3: Layer 3 (L3) Abstract Test Suite (ATS).
Reference: 3GPP TS 51.010-3.

Part 4: SIM Application Toolkit conformance specification
Reference: 3GPP TS 11.10-4.

Part 5: Inter-RAT (GERAN to UTRAN) Abstract Test Suite (ATS)
Reference: 3GPP TS 51.010-5.

NOTE: At the present time, part 4 is 3GPP TS 11.10.

1 Scope

The present document specifies the Abstract Test Suites (ATS) and partial IXIT proforma for the Network Layer (Layer 3) at the mobile radio interface of the GSM/3GPP mobile stations (MS) conforming to the TSs for Layer 3, for the digital cellular telecommunications systems.

The present document is valid for MS implemented according to R99, 3GPP Release 4, Release 5, Release 6 or Release 7.

The ISO standards for the methodology of conformance testing and the TTCN language are used as the basis for the test specifications.

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 same Release as the present document.*

[1] 3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance Specification".

[2] 3GPP TS 51.010-2: "Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

[3] ETSI TR 101 666 (V1.0.0): "Information technology; Open Systems Interconnection Conformance testing methodology and framework; The Tree and Tabular Combined Notation (TTCN) (Ed. 2++)".

[4] 3GPP TS 34.123-3: "User Equipment (UE) conformance specification; Part 3: Abstract Test Suites (ATSs)".

[5] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".

[6] 3GPP TS 04.18: "Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol".

[7] 3GPP TS 25.331: "Radio Resource Control (RRC) protocol specification"

[8] 3GPP TS 34.108: "Common test environments for User Equipment (UE) conformance testing".

[9] ISO/IEC 9646 (all parts): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework".

[10] ISO/IEC 8824 (all parts): "Information technology - Abstract Syntax Notation One (ASN.1)".

[11] ISO/IEC 8825 (all parts): "Information technology - ASN.1 encoding rules".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 34.123-3 [4] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TS 51.010-1 [1], 3GPP TS 24.008 [5], 3GPP TS 04.18 [6], 3GPP TS 25.331[7] and TR 101 666 [3] apply.

4 ATS Structure

The modular TTCN approach is used for the development of the 3GPP ATS specification work. Four modules, BasicM, RRC_M, M_RAT_HO_GERAN_M and L3M are installed. Please refer to 3GPP TS 34.123-3 [4] for details of the modular structure.

5 Abstract test method and test configurations

Please refer to 3GPP TS 34.123-3 [4].

6 Specific Test Suite Operations for InterRAT GERAN to UTRAN Handover testing

Table 1: TSO definitions for InterRAT GERAN to UTRAN testing

TSO Name	Description
o_GSM_ToUTRANHO_PER_Encoding	**Type of the result:** OCTETSTRING **Parameters:** p_Msg : HandoverToUTRANCommand p_Len : O1 **Description:** It returns the aligned PER encoding of the input downlink message p_Msg (with "Encoder added (1-7) bits padding") of p_Len octets.
o_P_CheckClassmark3	**Type of the result:** BOOLEAN **Parameters:** p_FromUE : MSCLSMK3; p_FDD, p_TDD, p_P_GSM_900_BAND, p_E_GSM_900_BAND: BOOLEAN p_R_GSM_900_BAND, p_DCS_1800_BAND, p_PCS_1900_BAND: BOOLEAN p_GSM_450_BAND, p_GSM_480_BAND, p_GSM_700_BAND: BOOLEAN p_GSM_850_BAND, p_TypeGSMClass2, p_TypeGSMClass3 : BOOLEAN p_TypeGSMClass4, p_TypeGSMClass5, p_TypeDCSClass1:BOOLEAN p_TypeDCSClass2, p_TypeDCSClass3, p_TypePCSClass1: BOOLEAN p_TypePCSClass2, p_TypePCSClass3, p_TypeGSM850Class2: BOOLEAN p_TypeGSM850Class3, p_TypeGSM850Class4, p_TypeGSM850Class5, BOOLEAN p_DTM_Multislotclass5, p_DTM_Multislotclass9, p_DTM_SingleSlotAllocation : BOOLEAN p_EOTD_Assist, p_A_GPS_Assist, p_A_GPS_Based, p_Conv_GPS : BOOLEAN p_EOTD_Based, p_GERANFeatPackage1, p_GERANFeatPackage2: BOOLEAN p_GERANIuMode, p_DTMEnhancCap, p_TAOffset : BOOLEAN p_MultiSlotClass, p_EGPRS_MultiSlotClass : B5; p_SMS_Value, p_SM_Value : B4 p_GSM400_RadioCapability, p_T400_RadioCapability, p_T900_RadioCapability : B4 p_RGSM_RadioCapability, p_DTMGPRSHighMultiSlotClass : B3

p_DTMEGPRSHighMultiSlotClass : B3
p_DTM_EGPRS_MultiSlotSubClass, p_EDGEPwrCap1, p_EDGEPwrCap2 : B2
p_ExtDTM_MultiSlotClass, p_ExtDTM_EGPRS_MultiSlotClass, p_HighMultiSlotCap : B2
p_GMSKPowerProfile, p_8PSKPowerProfile, p_TGSM400Support : B2
p_DLAdvRxPerformance : B2
p_MS_ClsmkA5_4, p_MS_ClsmkA5_5, p_MS_ClsmkA5_6, p_MS_ClsmkA5_7 : B1
p_CDMA2000, p_ExtMeasCap, p_ModulationCapability, p_UCS2Treatment : B1
p_RptACCHCap : B1

Description

This is used when UE sends the MSCLSMK3 PDU in CLASSMARK CHANGE

To check each bit of the received octetstring from the UE against the CSN.1 format constraint. The format of the Classmark3 IE is as follows:

```
<Classmark 3 Value part> ::=
        < spare bit >
        {       < Multiband supported : { 000 } >
                        < A5 bits >
        |       < Multiband supported : { 101 | 110 } >
                        < A5 bits >
                        < Associated Radio Capability 2 : bit(4) >
                        < Associated Radio Capability 1 : bit(4) >
        |       < Multiband supported : { 001 | 010 | 100 } >
                        < A5 bits >
                        < spare bit >(4)
                        < Associated Radio Capability 1 : bit(4) > }
        { 0 | 1 < R Support > }
        { 0 | 1 < HSCSD Multi Slot Capability > }
        < UCS2 treatment: bit >
        < Extended Measurement Capability : bit >
        { 0 | 1 < MS measurement capability > }
        { 0 | 1 < MS Positioning Method Capability > }
        { 0 | 1 < ECSD Multi Slot Capability > }
        { 0 | 1 < 8-PSK Struct > }
        { 0 | 1 < GSM 400 Bands Supported : { 01 | 10 | 11 } >
                        < GSM 400 Associated Radio Capability: bit(4) > }

        { 0 | 1 <GSM 850 Associated Radio Capability : bit(4) > }
        { 0 | 1 <GSM 1900 Associated Radio Capability : bit(4) > }
        < UMTS FDD Radio Access Technology Capability : bit >
        < UMTS 3.84 Mcps TDD Radio Access Technology Capability : bit >
        < CDMA 2000 Radio Access Technology Capability : bit >

        { 0 | 1         < DTM GPRS Multi Slot Class : bit(2) >
                        < Single Slot DTM : bit >
                        {0 | 1< DTM EGPRS Multi Slot Class : bit(2) > } }
        { 0 | 1 < Single Band Support > }                       -- Release 4 starts
here:
        { 0 | 1 <GSM 750 Associated Radio Capability : bit(4)>}

        < UMTS 1.28 Mcps TDD Radio Access Technology Capability : bit >
        < GERAN Feature Package 1 : bit >

        { 0 | 1 < Extended DTM GPRS Multi Slot Class : bit(2) >
                        < Extended DTM EGPRS Multi Slot Class : bit(2) > }

        { 0 | 1 < High Multislot Capability : bit(2) > }                    ---Release
5 starts here.

        { 0 | 1 < GERAN Iu Mode Capabilities > }    -- '1' also means support of GERAN
Iu mode
        < GERAN Feature Package 2 : bit >

        < GMSK Multislot Power Profile : bit (2) >
        < 8-PSK Multislot Power Profile : bit (2) >

        { 0 | 1 < T-GSM 400 Bands Supported : { 01 | 10 | 11 } >       -- Release 6 starts
here.
```

	< T-GSM 400 Associated Radio Capability: bit(4) > } { 0 | 1 < T-GSM 900 Associated Radio Capability: bit(4) > } < Downlink Advanced Receiver Performance : bit (2)> < DTM Enhancements Capability : bit > { 0 | 1 < DTM GPRS High Multi Slot Class : bit(3) > < Offset required : bit> { 0 | 1 < DTM EGPRS High Multi Slot Class : bit(3) > } } < Repeated ACCH Capability: bit > < spare bit > ; < A5 bits > ::= < A5/7 : bit > < A5/6 : bit > < A5/5 : bit > < A5/4 : bit > ; <R Support>::= < R-GSM band Associated Radio Capability : bit(3) > ; < HSCSD Multi Slot Capability > ::= < HSCSD Multi Slot Class : bit(5) > ; < MS Measurement capability > ::= < SMS_VALUE : bit (4) > < SM_VALUE : bit (4) > ; < MS Positioning Method Capability > ::= < MS Positioning Method : bit(5) > ; < ECSD Multi Slot Capability > ::= < ECSD Multi Slot Class : bit(5) > ; < 8-PSK Struct> : := < Modulation Capability : bit > { 0 | 1 < 8-PSK RF Power Capability 1: bit(2) > } { 0 | 1 < 8-PSK RF Power Capability 2: bit(2) > } < Single Band Support > ::= < GSM Band : bit (4) > ; < GERAN Iu Mode Capabilities > ::= < Length : bit (4) > -- length in bits of Iu mode only capabilities and spare bits -- Additions in release 6 < FLO Iu Capability : bit > <spare bits>** ; -- expands to the indicated length -- may be used for future enhancements
o_LengthofHO_Cmd	**Type of the result:** INTEGER **Parameters:** p_Msg : HandoverToUTRANCommand **Description:** it returns the no. of octets of the input downlink message p_Msg

Annex A (normative): Abstract Test Suites (ATS)

This annex contains the approved ATS which has been produced using the Tree and Tabular Combined Notation (TTCN) according to TR 101 666 [3].

The ATS was developed on a separate TTCN software tool and therefore the TTCN tables are not completely referenced in the table of contents. The ATS contains a test suite overview part which provides additional information and references.

NOTE: Both the .GR and .MP format of the Abstract Test Suite (in TTCN) shall be considered equivalent. In the event that there appears to be syntactical or semantic differences between the two then the problem shall be resolved and the erroneous format (whichever it is) shall be corrected.

A.1 Version of specification

Table A.1 shows the version of the test specifications which the delivered ATS refers to:

Table A.1: Versions of the test and Core specifications

Core specifications	3GPP TS 44.018 [6] (V6.h.0)
	3GPP TS 25.331 [7] (V6.a.0)
Test specifications	3GPP TS 51.010-1 [1] (V7.4.0)
	3GPP TS 51.010-2 [2] (V7.4.0)
	3GPP TS 34.123-3 [4] (V6.0.0)
	3GPP TS 34.108 [8] (V6.4.0)

A.2 IR_G ATS

The approved test cases are listed.

Table A.2: IR_G TTCN test cases

Test case	Description
20.22.29	Packet Measurement order procedure / Downlink transfer / Normalcase/ 3G cell reselection dedicated parameters
20.25.2	Intersystem Cell Reselection/Idle Mode/FDD_Qmin
20.25.3	Intersystem Cell Reselection/Idle Mode/FDD_Qoffset
20.25.4	Intersystem Cell Reselection/Idle Mode/Qsearch_I
26.6.11.3	Classmark interrogation / UTRAN Classmark Change
26.6.11.4	Early UTRAN Classmark Sending
41.5.1.1.1.4	Uplink TBF establishment with no reallocation of CS resources / Abnormal cases / Inter System to UTRAN Handover Command
60.1	Inter system handover to UTRAN/From GSM/Speech/Success
60.2a	Inter system handover to UTRAN/From GSM/Data/Same data rate/Success
60.3a	Inter system handover to UTRAN/From GSM/Data/Data rate upgrading/Success
60.4	Inter system handover to UTRAN/From GSM/SDCCH/CC Establishment/Success
60.5	Inter system handover to UTRAN/From GSM/Speech/Blind HO/Success
60.6	Inter system handover to UTRAN/From GSM/Speech/Failure

60.10	Inter system handover to UTRAN/From GSM/Integrity Protection Activation

A.2.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format™ file (IR_Gv740.PDF) which accompanies the present document.

A.2.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (IR_Gv740.MP) which accompanies the present document.

Annex B (normative): Partial IXIT proforma

B.0 Introduction

This partial IXIT proforma contained in the present document is provided for completion, when the related Abstract Test Suite is to be used against the Implementation Under Test (IUT).

Text in *italics* is comments for guidance for the production of a IXIT, and is not to be included in the actual IXIT.

The completed partial IXIT will normally be used in conjunction with the completed ICS, as it adds precision to the information provided by the ICS.

B.1 Parameter values

These parameters are used in the IR_G ATS.

Table B.1: IR_G PIXIT

Parameter Name	Description	Type	Default Value	Supported Value
px_CDMA2000	UE support of CDMA2000, used in classmark3	B1	'0'B	
px_DLAdvRxPerformance	used in classmark3	B2		
px_DTMEGPRSHighMultiSlotClass	used in classmark3	B3		
px_DTMGPRSHighMultiSlotClass	used in classmark3	B3		
px_DTM_EDGE_MultiSlotSubClass	indicates DTM EGPRS capabilities of the UE, used in classmark3	B2		
px_EDGEPwrCap1	EDGE Power Class used in classmark3	B2		
px_EDGEPwrCap2	EDGE Power Class used in classmark3	B2		
px_EGPRS_MultiSlotClass	used in classmark3 to define the EDGE multislotclass supported by the UE	B5		
px_EOTD_Based	Support of MS based EOTD used in classmark3	BOOLEAN		
px_ExtDTM_MultislotClass	Used in Classmark 3	B2		
px_ExtDTM_EGPRS_MultislotClass	Used in Classmark 3	B2		
px_ExtMeasCap	UE support of Extended Measurements used in classmark3	B1		
px_8PSKPowerProfile	Used in classmark3	B2		
px_GMSKPowerProfil	Used in classmark3	B2		

e				
px_GSM400_RadioCapability	Used in classmark3	B4		
px_HighMultiSlotCap	Used in Classmark 3	B2		
px_ModulationCapability	Used in classmark3 to specify supported modulation schemes other than GMSK	B1		0 = 8PSK supported for downlink only, 1 = 8PSK supported for uplink and downlink
px_MultiSlotClass	used in classmark3 to define the multislotclass supported by the UE	B5		
px_RGSM_RadioCapability	Used in classmark3	B3		
px_RptACCHCap	used in classmark3	B1		0 - UE does not support repeated SACCH 1 - UE supports repeated SACCH and repeated dl FACCH note: a UE that supports only repeated dl FACCH should set this field to '0'
px_SM_Value	indicates the time needed for the UE to switch from one radio channel to another and perform a neighbour cell power measurement, used in classmark3	B4		Switch-Measure Value
px_SMS_Value	indicates the time needed for the UE to switch from one radio channel to another, perform a neighbour cell power measurement and then switch from that radio channel to another radio channel, used in classmark3	B4		Switch-Measure-Switch Value
px_T400_RadioCapability	Used in classmark3	B4		
px_T900_RadioCapability	Used in classmark3	B4		
px_TGSM400Support	used in classmark3	B2		Bit 1 - TGSM 380 supported Bit 2 - TGSM 410 supported

Annex C (normative): Additional information to IXIT

C.1 Identification Summary

Table C.1 is completed by the test laboratory. The item "Contract References" is optional.

Table C.1: Identification Summary

IXIT Reference Number	
Test Laboratory Name	
Date of Issue	
Issued to (name of client)	
Contract References	

C.2 Abstract Test Suite Summary

Table C.2 the test laboratory provides the version number of the protocol specification and the version number of ATS which are used in the conformance testing.

Table C.2: ATS Summary

Protocol Specification	3GPP TS 24.008
Version of Protocol Specification	
TSS & TP Specification	3GPP TS 51.010-1
Version of TSS & TP Specification	
ATS Specification	3GPP TS 51.010-5
Version of ATS Specification	
Abstract Test Method	Distributed Test Method

C.3 Test Laboratory

C.3.1 Test Laboratory Identification

The test laboratory provides the following information.

Table C.3: Test Laboratory Identification

Name of Test Laboratory	
Postal Address	
Office address	
e-mail address	
Telephone Number	
FAX Number	

C.3.2 Accreditation status of the test service

The test laboratory provides the following information.

Table C.4: Accreditation status of the test service

Accreditation status	
Accreditation Reference	

C.3.3 Manager of Test Laboratory

The test laboratory provides the information about the manager of test laboratory in table C.5.

Table C.5: Manager of Test Laboratory

Name of Manager of Test Laboratory	
e-mail address	
Telephone Number	
FAX Number	
E-mail Address	

C.3.4 Contact person of Test Laboratory

The test laboratory provides the information about the contact person of test laboratory in table C.6.

Table C.6: Contact person of Test Laboratory

Name of Contact of Test Laboratory	
e-mail address	
Telephone Number	
FAX Number	
E-mail Address	

C.3.5 Means of Testing

In table C.7, the test laboratory provides a statement of conformance of the Means Of Testing (MOT) to the reference standardized ATS, and identifies all restrictions for the test execution required by the MOT beyond those stated in the reference standardized ATS.

Table C.7: Means of Testing

Means of Testing

C.3.6 Instructions for Completion

In table C.8, the test laboratory provides any specific instructions necessary for completion and return of the proforma from the client.

Table C.8: Instruction for Completion

Instructions for Completion

C.4 Client

C.4.1 Client Identification

The client provides the identification in table C.9.

Table C.9: Client Identification

Name of Client	
Postal Address	
Office Address	
Telephone Number	
FAX Number	

C.4.2 Client Test Manager

In table C.10 the client provides information about the test manager.

Table C.10: Client Test Manager

Name of Client Test Manager	
Telephone Number	
FAX Number	
E-mail Address	

C.4.3 Client Contact person

In table C.11 the client provides information about the test contact person.

Table C.11: Client Contact person

Name of Client contact person	
Telephone Number	
FAX Number	
E-mail Address	

C.4.4 Test Facilities Required

In table C.12, the client records the particular facilities required for testing, if a range of facilities is provided by the test laboratory.

Table C.12: Test Facilities Required

Test Facilities Required

C.5 System Under Test

C.5.1 SUT Information

The client provides information about the SUT in table C.13.

Table C.13: SUT Information

System Name	
System Version	
SCS Reference	
Machine Configuration	
Operating System Identification	
IUT Identification	
ICS Reference for the IUT	

C.5.2 Limitations of the SUT

In table C.14, the client provides information explaining if any of the abstract tests cannot be executed.

Table C.14: Limitation of the SUT

Limitations of the SUT

C.5.3 Environmental Conditions

In table C.15 the client provides information about any tighter environmental conditions for the correct operation of the SUT.

Table C.15: Environmental Conditions

Environmental Conditions

C.6 Ancillary Protocols

This clause is completed by the client in conjunction with the test laboratory.

In the following tables, the client identifies relevant information concerning each ancillary protocol in the SUT other than the IUT itself. One table for one ancillary protocol.

Based on the MOT the test laboratory should create question proforma for each ancillary protocol in the blank space following each table. The information required is dependent on the MOT and the SUT, and covers all the addressing, parameter values, timer values and facilities (relevant to ENs) as defined by the ICS for the ancillary protocol.

C.6.1 Ancillary Protocols 1

Table C.16: Ancillary Protocol 1

Protocol Name	*EN* 300
Version number	
ICS Reference (optional)	
IXIT Reference (optional)	
PCTR Reference (optional)	

C.6.2 Ancillary Protocols 2

Table C.17: Ancillary Protocol 2

Protocol Name	*EN* 300
Version number	
ICS Reference (optional)	
IXIT Reference (optional)	
PCTR Reference (optional)	

C.7 Protocol Layer Information for L3 of Mobile Station

C.7.1 Information provided for test purposes by the MS supplier

Item	Description	Type/Allowed values	Supported Value	Release

C.7.2 MMI information

This annex lists MMI command strings which are transmitted from specific GERAN test steps in the TTCN to the SS.

- Please trigger PDP Context Activation Type 2 in UE.
- Please trigger UE to send three SNDCP PDUs of 500 bytes each on SAPI 11.

C.7.3 Test house specified parameters

Item	Description	Type/Allowed values	Value chosen	Release

Annex D (normative): PCTR Proforma

Please refer to 3GPP TS 34.123-3 [4].

Annex E (informative): Change history

Change history									
TSG #	TSG Doc	CR	Rev	Subject/Comment	Cat	Old	New	WG Doc	Work item
04/06/04				Creation of first draft			0.0.0	GP-041355	
15/09/04				Updated with comments		0.0.0	0.1.0	-	
26/10/04				Editorial changes to present to GERAN WG3 #22		0.1.0	0.2.0	GP-042335	
11/11/04				Raised to version 2.0.0 for presentation to GERAN #22 for approval		0.2.0	2.0.0	GP-042795	
12/11/04				Approved at GERAN Plenary #22		2.0.0	6.0.0		
GP-23	GP-050008	0001	-	Update of verified Test Cases for Inter-RAT	F	6.0.0	6.1.0	GP-050008	ALTERE/Inter-RAT
GP-24	GP-050758	0002	-	Summary of regression errors for IR_G_wk09.	F	6.1.0	6.2.0	GP-050758	N/A
GP-24	GP-050759	0003	-	Corrections to approved IR_G test cases 26.6.11.3 and 26.6.11.4.	F	6.1.0	6.2.0	GP-050759	N/A
GP-24	GP-050760	0004	-	Corrections to approved IR_G test case 60.1 to handle the path for Handover To UTRAN for MS supporting GSM HR speech call.	F	6.1.0	6.2.0	GP-050760	N/A
GP-24	GP-050761	0005	-	Addition of GCF P4 test cases 60.4 to IR_G ATS.	B	6.1.0	6.2.0	GP-050761	N/A
GP-24	GP-050762	0006	-	Addition of WI-12 test case 60.10 to IR_G ATS.	B	6.1.0	6.2.0	GP-050762	N/A
GP-24	GP-050763	0007	-	Addition of WI-12 test case 20.25.3 to IR_G ATS.	B	6.1.0	6.2.0	GP-050763	N/A
GP-24	GP-050764	0008	-	Addition of WI-12 test cases 20.25.4 to IR_G ATS.	B	6.1.0	6.2.0	GP-050764	N/A
GP-24	GP-050888	0009	-	Add new verified TTCN test cases in Annex A	F	6.1.0	6.2.0	GP-050888	ALTERE/Inter-RAT
GP-25	GP-051223	0010	-	Addition of new verified TTCN test cases	F	6.2.0	6.3.0	GP-051223	Inter_System_Handover
GP-25	GP-051226	0011	-	Addition of WI-12 test case 20.25.2 to IR_G ATS v5.0.0	B	6.2.0	6.3.0	GP-051226	Inter_System_Handover
GP-25	GP-051227	0012	-	Addition of WI-10 P4 test case 60.2a to IR_G ATS V3.8.0.	B	6.2.0	6.3.0	GP-051227	Inter_System_Handover
GP-25	GP-051228	0013	-	Summary of regression errors in the IR_G wk09 ATS.	F	6.2.0	6.3.0	GP-051228	Inter_System_Handover
GP-25	GP-051229	0014	-	Correction to retrieve correct frame number from G_CL1_ComingFN_REQ ASP	F	6.2.0	6.3.0	GP-051229	Inter_System_Handover
GP-25	GP-051230	0015	-	Correction to enable ciphering for 2G to 3G handover for the test case 60.1	F	6.2.0	6.3.0	GP-051230	Inter_System_Handover
GP-25	GP-051231	0016	-	Correction to Approved RRC Package 4 TC 26.6.11.4	F	6.2.0	6.3.0	GP-051231	Inter_System_Handover
GP-25	GP-051232	0017	-	Summary of regression errors for IR_G_r3_wk17.	F	6.2.0	6.3.0	GP-051232	Inter_System_Handover
GP-25	GP-051233	0018	-	Summary of regression errors in the IR_G wk17 ATS.	F	6.2.0	6.3.0	GP-051233	Inter_System_Handover
GP-25	GP-051234	0019	-	Corrections to approved IR_G test cases 26.6.11.3	F	6.2.0	6.3.0	GP-051234	Inter_System_Handover
GP-25	GP-051235	0020	-	Correction to the approved IR_G test cases (60.x series and 20.xseries)	F	6.2.0	6.3.0	GP-051235	Inter_System_Handover
GP-26	GP-051859	0021	-	Addition of new verified TTCN test cases	F	6.3.0	6.4.0	GP-051859	Inter_System_Handover
GP-26	GP-051862	0022	-	Addition of WI-012 test case 20.22.29 to IR_G ATS 6.3.0.	B	6.3.0	6.4.0	GP-051862	Inter_System_Handover
GP-26	GP-051863	0023	-	Additional changes to test case 60.3a	B	6.3.0	6.4.0	GP-051863	Inter_System_Handover

Change history									
TSG #	TSG Doc	CR	Rev	Subject/Comment	Cat	Old	New	WG Doc	Work item
GP-27	GP-052504	0024	-	Update for latest version of TTCN	F	6.4.0	6.5.0	GP-052504	Inter_System_Handover
GP-27	GP-052506	0025	-	Correction of approved WI-012 test case 20.22.29.	F	6.4.0	6.5.0	GP-052506	TEI_Test
GP-27	GP-052507	0026	-	Corrections to approved GCF WI-10 P4 test cases 60.1 and 60.3a.	F	6.4.0	6.5.0	GP-052507	TEI_Test
GP-27	GP-052508	0027	-	Corrections to approved IR_G test case 60.3a	F	6.4.0	6.5.0	GP-052508	TEI_Test
GP-27	GP-052509	0028	-	Correction to the IR_G test case 60.6	F	6.4.0	6.5.0	GP-052509	TEI_Test
GP-27	GP-052510	0029	-	Summary of regression errors in the wk36 IR_G ATS.	F	6.4.0	6.5.0	GP-052510	TEI_Test
GP-27	GP-052511	0030	-	Summary of regression results for wk36 version of IR_G ATS V6.3.0	F	6.4.0	6.5.0	GP-052511	TEI_Test
GP-27	GP-052512	0031	-	Summary of regression errors in the wk38 IR_G ATS	F	6.4.0	6.5.0	GP-052512	TEI_Test
GP-27	GP-052513	0032	-	Summary of regression errors in the wk38 ATS.	F	6.4.0	6.5.0	GP-052513	TEI_Test
GP-28	GP-060152	0034	-	Summary of regression errors in the wk42 ATS.	F	6.5.0	6.6.0	GP-060152	Inter_System_Handover
GP-28	GP-060153	0035	-	Correction to IR_G_wk47 test case 60.1	F	6.5.0	6.6.0	GP-060153	Inter_System_Handover
GP-28	GP-060184	0036	-	Summary of regression errors in the IR_G_wk49 ATS	F	6.5.0	6.6.0	GP-060184	Inter_System_Handover
GP-28	GP-060423	0033	1	Update for latest version of TTCN (convert to ver 7)	F	6.5.0	7.0.0	GP-060423	Inter_System_Handover
GP-29	GP-060549	0037	-	Update for latest version of TTCN	F	7.0.0	7.1.0	GP-060549	Inter_System_Handover
GP-29	GP-060551	0038	-	Correction to approved GCF WI-12/1 test case 20.25.3	F	7.0.0	7.1.0	GP-060551	Inter_System_Handover
GP-29	GP-060552	0039	-	Summary of regression errors in wk03 IR_G ATS.	F	7.0.0	7.1.0	GP-060552	Inter_System_Handover
GP-29	GP-060553	0040	-	Summary of regression errors in wk06 IR_G ATS.	F	7.0.0	7.1.0	GP-060553	Inter_System_Handover
GP-30	GP-061012	0041	-	Update for the latest version of TTCN	F	7.1.0	7.2.0	GP-061012	TEI
GP-30	GP-061014	0042	-	Correction to the IR_G test case 26.6.11.3 and 26.6.11.4	F	7.1.0	7.2.0	GP-061014	TEI
GP-30	GP-061015	0043	-	Correction of approved IR_G test cases 60.1 and 60.3a	F	7.1.0	7.2.0	GP-061015	TEI
GP-30	GP-061016	0044	-	Correction to IR_G test case 20.22.29	F	7.1.0	7.2.0	GP-061016	TEI
GP-30	GP-061017	0045	-	Addition of GCF WI17 Inter-RAT Dual Transfer Mode test case 41.5.1.1.1.4	B	7.1.0	7.2.0	GP-061017	TEI
GP-31	GP-061539	0046	-	Update for the latest version of TTCN	F	7.2.0	7.3.0	GP-061539	TEI
GP-31	GP-061541	0047	-	Correction to the IR_G test cases	F	7.2.0	7.3.0	GP-061541	TEI
GP-31	GP-061542	0048	-	Summary of regression error in wk27 GCF WI-10 and GCF WI-12 IR_G ATS	F	7.2.0	7.3.0	GP-061542	TEI
GP-31	GP-061543	0049	-	Correction to the IR_G test cases for the activation time of the UTRAN physical channels	F	7.2.0	7.3.0	GP-061543	TEI
GP-31	GP-061544	0050	-	Correction to the IR_G test case 20.22.29	F	7.2.0	7.3.0	GP-061544	TEI
GP-32	GP-062001	0051	-	Update for the latest version of TTCN	F	7.3.0	7.4.0	GP-062001	TEI
GP-32	GP-062002	0052	-	Corrections to approved GCF WI-17 DTM test case 41.5.1.1.1.4 in IR_G wk34 ATS	F	7.3.0	7.4.0	GP-062002	TEI
GP-32	GP-062003	0053	-	Corrections to approved GCF WI-17 DTM test case 41.5.1.1.1.4 in IR_G wk38 ATS	F	7.3.0	7.4.0	GP-062003	TEI
GP-32	GP-062004	0054	-	Correction to GCF WI-10 IR-G Test Case 60.1	F	7.3.0	7.4.0	GP-062004	TEI

History

Document history		
V7.0.0	January 2006	Publication
V7.1.0	May 2006	Publication
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