ETSI TS 151 010-5 V10.12.0 (2015-04)

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 10.12.0 Release 10)

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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.

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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, Release 7, Release 8, 3GPP Release 9 and 3GPP Release 10).

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, Release 7 and Release 8, 3GPP Release 9 and 3GPP Release 10), 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 v6.3.0 (Note 1)

Part 4: SIM Application Toolkit conformance specification
Reference: 3GPP TS 51.010-4.

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

Part 7: Location Services (LCS) test scenarios and assistance data.
Reference: 3GPP TS 51.010-7.

NOTE 1: GP-25: TTCN is not maintained after v6.3.0, and is henceforward to be considered an example test suite rather than the conformance tests.

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, Release 7, Release 8, Release 9 or Release 10.

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_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

Refer to 34.123-3 [4], clause 8.7 for test suite operations also used in UTRAN based testing.

7 Generic Procedures for GERAN/LTE testing

7.1 GPRS Attach

Refer to 34.123-3 [4], clause 6.10.2.7

7.2 PDP Context 2 Activated

Refer to 51.010-1, clause 40.4.3.15

7.3 U10 Active State

Refer to 51.010-1, clause 40.4.3.22

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.

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] (V11.4.0)
	3GPP TS 25.331 [7] (V11.5.0)
Test specifications	3GPP TS 51.010-1 [1] (V12.3.0)
	3GPP TS 51.010-2 [2] (V12.3.0)
	3GPP TS 34.123-3 [4] (V11.5.0)
	3GPP TS 34.108 [8] (V11.12.0)

A.2 IR_G ATS

The approved test cases are listed below.

Number of TC Executions

This column indicates the recommended number of TC executions. In case this recommended number is less than the number of TC executions imposed by the individual TC applicability, this column also indicates the preferred domain for testing. The different entries shall be read as follows:

CS - TC is recommended to execute in CS domain

CS+PS - TC is recommended to execute CS+PS with pc_CS and pc_PS set to TRUE

PS - TC is recommended to execute in PS domain

Note: This definition is taken from 34.123-2, clause 4.

Table A.2: IR_G TTCN test cases

Test case	Description	Number of TC Executions (informative)
20.22.29	Packet Measurement order procedure / Downlink transfer / Normal case/ 3G cell reselection dedicated parameters	1 Execution: PS
20.22.29a	Packet Measurement order procedure / Downlink transfer / Normal case/ 3G cell reselection dedicated parameters with GEA2 and UEA2 ciphering	1 Execution: PS
20.22.29b	Packet Measurement order procedure / Downlink transfer / Normal case/ 3G cell reselection dedicated parameters with GEA3 and UEA2 ciphering	1 Execution: PS
20.22.29c	Packet Measurement order procedure / Downlink transfer / Normal case/ 3G cell reselection dedicated parameters with GEA4 and UEA2 ciphering	1 Execution: PS
20.25.2	Intersystem Cell Reselection/Idle Mode/FDD_Qmin	1 Execution: CS
20.25.3	Intersystem Cell Reselection/Idle Mode/FDD_Qoffset	1 Execution: CS
20.25.4	Intersystem Cell Reselection/Idle Mode/Qsearch_I	1 Execution: CS
26.6.11.3	Classmark interrogation / UTRAN Classmark Change	1 Execution: CS
26.6.11.4	Early UTRAN Classmark Sending	1 Execution: CS
41.5.1.1.1.4	Uplink TBF establishment with no reallocation of CS resources / Abnormal cases / Inter System to UTRAN Handover Command	1 Execution: CS + PS
47.3.4.1	Handover to UTRAN while in DTM / Downlink TBF	1 Execution: CS + PS
47.3.4.2	Handover to UTRAN while in DTM / Uplink TBF	1 Execution: CS + PS
60.1	Inter system handover to UTRAN/From GSM/Speech/Success	1 Execution: CS
60.1a	Inter system handover to UTRAN/From GSM/Speech/Success with A5/3 and UEA2/UIA2 ciphering	1 Execution: CS
60.1b	Inter system handover to UTRAN/From GSM/Speech/Success with A5/4 and UEA2/UIA2 ciphering	1 Execution: CS
60.2a	Inter system handover to UTRAN/From GSM/Data/Same data rate/Success	1 Execution: CS
60.3a	Inter system handover to UTRAN/From GSM/Data/Data rate upgrading/Success	1 Execution: CS
60.4	Inter system handover to UTRAN/From GSM/SDCCH/CC Establishment/Success	1 Execution: CS
60.5	Inter system handover to UTRAN/From GSM/Speech/Blind HO/Success	1 Execution: CS
60.6	Inter system handover to UTRAN/From GSM/Speech/Failure	1 Execution: CS
60.10	Inter system handover to UTRAN/From GSM/Integrity Protection Activation	1 Execution: CS

A.2.1   Void

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_Gvac0.MP) which accompanies the present document.

Annex B (normative):
Partial IXIT proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, 3GPP Organizational Partners grant that users of the present document may freely reproduce the partial IXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed partial IXIT.

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

Refer to 34.123-3 [4], Annex B.

Annex C (normative):
Additional information to IXIT

Notwithstanding the provisions of the copyright clause related to the text of the present document, 3GPP Organizational Partners grant that users of the present document may freely reproduce the PIXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed PIXIT.

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

Table C.18: 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

Table C.19: 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):
Guidance on test execution

E.1   InterRAT test execution

The test purpose and the test method of the test cases [60.1, 60.1a and 60.1b] and [20.22.29, 20.22.29a, 20.22.29b and 20.22.29c] are the same. The test cases differ from each other in the ciphering algorithms applied in the UTRAN and GERAN cell. The necessary test coverage is achieved by executing once according to the following:

60.1b and 20.22.29c for MS in Rel-9 or later,

60.1a, 20.22.29a and 20.22.29b for MS in Rel-7 or later,

60.1, 20.22.29 for MS in R99, Rel-4, Rel-5 and Rel-6.

Annex F (informative):
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

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 version 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
GP-33	GP-070023	0055	-	Update for the latest version of TTCN	F	7.4.0	7.5.0	GP-070023	TEI
GP-33	GP-070025	0056	-	Corrections to approved GCF WI-17 DTM test case 41.5.1.1.1.4 in IR_G wk47 ATS	F	7.4.0	7.5.0	GP-070025	TEI
GP-33	GP-070026	0057	-	Addition of GCF WI17 test case 47.3.4.1 to IR_G ATS v 7.3.0	B	7.4.0	7.5.0	GP-070026	TEI
GP-33	GP-070027	0058	-	Addition of GCF WI17 Inter-RAT Dual Transfer Mode test case 47.3.4.2 to IR_G ATS v 7.3.0	B	7.4.0	7.5.0	GP-070027	TEI
GP-33	GP-070028	0059	-	Summary of regression error in wk49 IR_G ATS	F	7.4.0	7.5.0	GP-070028	TEI
GP-33	GP-070029	0060	-	Correction to IR_G cell reselection test cases for SIB configuration	F	7.4.0	7.5.0	GP-070029	TEI
GP-34	GP-070578	0061	-	Addition of TC Execution column and update for the latest version of TTCN	F	7.5.0	7.6.0	GP-070578	TEI
GP-34	GP-070581	0063	-	Correction to IR_G test cases 26.6.11.3 and 26.6.11.4	F	7.5.0	7.6.0	GP-070581	TEI
GP-34	GP-070582	0064	-	Correction to IR_G test case 20.22.29	F	7.5.0	7.6.0	GP-070582	TEI

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GP-34	GP-070583	0065	-	Correction to the applicability of the IR_G test cases 60.2a and 60.3a	F	7.5.0	7.6.0	GP-070583	TEI
GP-34	GP-070584	0066	-	Correction for GCF WI-10 InterSystem Test Cases 26.6.11.3 and 26.6.11.4	F	7.5.0	7.6.0	GP-070584	TEI
GP-34	GP-070585	0067	-	Correction to the IR_G DTM test cases 47.3.4.1 and 47.3.4.2.	F	7.5.0	7.6.0	GP-070585	TEI
GP-34	GP-070598	0068	-	Correction to GCF IR_G test cases	F	7.5.0	7.6.0	GP-070598	TEI
GP-35	GP-071107	0069	-	Add the word "informative" for TC executions and update for the latest version of TTCN	F	7.6.0	7.7.0	GP-071107	TEI
GP-35	GP-071109	0070	-	Corrections to IR_G test cases	F	7.6.0	7.7.0	GP-071109	TEI
GP-36	GP-071589	0071	-	Correction to a PIXIT and update for the latest version of TTCN	F	7.7.0	7.8.0	GP-071589	TEI
GP-36	GP-071591	0072	-	TTCN Correction in IR_G test case 20.25.3	F	7.7.0	7.8.0	GP-071591	TEI
GP-37	GP-080015	0073	-	Update for the latest version of TTCN	F	7.8.0	7.9.0	GP-080015	TEI
GP-38	GP-080759	0074	-	CR 51.010-5-0074 rev 1 Update for the latest version of TTCN (Rel-7)	F	7.9.0	7.10.0	GP-080759	TEI
GP-38	GP-080460	0075	-	CR 51.010-5-0075 Summary of regression errors in wk10 IR_G ATS (Rel-7)	F	7.9.0	7.10.0	GP-080460	TEI
GP-39	GP-080977	0076	-	CR 51.010-5-0076 Update for the latest version of TTCN (Rel-7)	F	7.10.0	7.11.0	GP-080977	TEI
GP-39	GP-080981	0077	-	CR 51.010-5-0077 Correction to the preamble used for IR_G Test cases (Rel-7)	F	7.10.0	7.11.0	GP-080981	TEI
GP-39	GP-080982	0078	-	CR 51.010-5-0078 Correction to IR_G Test case 60.6 (Rel-7)	F	7.10.0	7.11.0	GP-080982	TEI
GP-40	GP-081470	0079	-	CR 51.010-5-0079 Update for the latest version of TTCN	F	7.11.0	7.12.0	GP-081470	TEI
				Upgraded to Rel-8 without tech change		7.12.0	8.0.0	-	
				TTCN and ASN.1 added		8.0.0	8.0.1	-	
GP-41	GP-090016	0081	-	CR 51.010-5-0081 Update for the latest version of TTCN	B	8.0.1	8.1.0	GP-090016	TEI
GP-41	GP-090396	0080	1	Update of TS 51.010-5-0080 from Rel-7 to Rel-8 (Release 7)	B	8.0.1	8.1.0	GP-090396	TEI
GP-42	GP-090579	0082	-	CR 51.010-5-0082 Update for the latest version of TTCN	B	8.1.0	8.2.0	GP-090579	TEI
GP-42	GP-090581	0083	-	CR 51.010-5-0083 Correction to the IR_G test cases 60.2a and 60.3a	B	8.1.0	8.2.0	GP-090581	TEI
GP-43	GP-091205	0084	-	CR 51.010-5-0084 Update for the latest version of TTCN	B	8.2.0	8.3.0	GP-091205	TEI8
GP-43	GP-091206	0085	-	CR 51.010-5-0085 GCF WI-010: Adaptation to TSO o_P_CheckClassmark3 for Rel8	B	8.2.0	8.3.0	GP-091206	TEI8
GP-44	GP-091863	0086	-	CR 51.010-5-0086 Update for the latest version of TTCN	F	8.3.0	9.0.0	GP-091863	TEI
GP-44	GP-091865	0087	-	CR 51.010-5-0087 Correction to ciphering configuration for the IR_G test cases	F	8.3.0	9.0.0	GP-091865	TEI
GP-44	GP-091866	0088	-	CR 51.010-5-0088 Correction to WK37 IR_G test cases (1)	F	8.3.0	9.0.0	GP-091866	TEI
GP-44	GP-091867	0089	-	CR 51.010-5-0089 Correction to WK37 IR_G test cases (2)	F	8.3.0	9.0.0	GP-091867	TEI
GP-44	GP-091868	0090	-	CR 51.010-5-0090 Addition of GCF WI 101 Rel-7 Snow 3G InterRAT test case 20.22.29b	B	8.3.0	9.0.0	GP-091868	TEI7
GP-44	GP-091869	0091	-	CR 51.010-5-0091 Addition of GCF WI 101 Rel-7 Snow 3G InterRAT test case 20.22.29a	B	8.3.0	9.0.0	GP-091869	TEI7
GP-44	GP-091870	0092	-	CR 51.010-5-0092 Addition of GCF WI 101 Rel-7 Snow 3G InterRAT test case 60.1a	B	8.3.0	9.0.0	GP-091870	TEI7
-	-	-	-	Correction in history table	-	9.0.0	9.0.1	-	-
GP-45	GP-100500	0093	1	CR 51.010-5-0093 Formal closing of 51.010-5 V8.3.0	B	9.0.1	9.1.0	GP-100500	TEI8
GP-46	GP-100651	0094	-	CR 51.010-5-0094 Update for the latest version of TTCN	F	9.1.0	9.2.0	GP-100651	TEI
GP-46	GP-100655	0095	-	CR 51.010-5-0095 Correction to TTCN for IR_G test cases 20.22.29a and 20.22.29b	F	9.1.0	9.2.0	GP-100655	TEI
GP-46	GP-100656	0096	-	CR 51.010-5-0096 Adaptation to TSO o_P_CheckClassmark3 due to changes mentioned in prose CR GP-100534	F	9.1.0	9.2.0	GP-100656	TEI
GP-46	GP-100657	0097	-	CR 51.010-5-0097 Correction to WK10	F	9.1.0	9.2.0	GP-100657	TEI

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				IR_G test cases					
GP-46	GP-100658	0098	-	CR 51.010-5-0098 Correction to test case 60.1a	F	9.1.0	9.2.0	GP-100658	TEI
GP-47	GP-101097	0100	-	CR 51.010-5-0100 Correction to GCF WI-010 IR_G test cases	F	9.2.0	9.3.0	GP-101097	TEI_Test
GP-47	GP-101098	0101	-	CR 51.010-5-0101 Correction to the IR_G Test Suite	F	9.2.0	9.3.0	GP-101098	TEI_Test
GP-47	GP-101530	0099	1	CR 51.010-5-0099 Update for the latest version of TTCN	F	9.2.0	9.3.0	GP-101530	TEI_Test
GP-47	GP-101574	0102	1	CR 51.010-5-0102 Addition of Part 7	F	9.2.0	9.3.0	GP-101574	AGNSSTP-MStest
GP-48	GP-101672	0103	-	CR 51.010-5-0103 Update for the latest version of TTCN	F	9.3.0	9.4.0	GP-101672	TEI_Test
GP-48	GP-101673	0104	-	CR 51.010-5-0104 Correction to test case 20.25.2, 20.25.3, 20.25.4	F	9.3.0	9.4.0	GP-101673	TEI_Test
GP-49	GP-110058	0105	-	CR 51.010-5-0105 Update for the latest version of TTCN	F	9.4.0	9.5.0	GP-110058	TEI_Test
GP-49	GP-110068	0106	-	CR 51.010-5-0106 Correction to the IR_G Test Suite	F	9.4.0	9.5.0	GP-110068	TEI_Test
GP-50	GP-110838	0107	1	CR 51.010-5-0107 Update for the latest version of TTCN	F	9.5.0	9.6.0	GP-110838	TEI_Test
GP-51	GP-111043	0108	-	CR 51.010-5-0108 Update for the latest version of TTCN	F	9.6.0	9.7.0	GP-111043	TEI_Test
GP-51	GP-111044	0109	-	CR 51.010-5-0109 Correction to the test cases 26.6.11.3 and 26.6.11.4	F	9.6.0	9.7.0	GP-111044	TEI_Test
GP-52	GP-111501	0110	-	CR 51.010-5-0110 Update for the latest version of TTCN	F	9.7.0	9.8.0	GP-111501	TEI_Test
GP-53	GP-120029	0111	-	CR 51.010-5-0111 Update for the latest version of TTCN	F	9.8.0	9.9.0	GP-120029	TEI_Test
GP-53	GP-120030	0112	-	CR 51.010-5-0112 Correction to test case 26.6.11.3, 26.6.11.4	F	9.8.0	9.9.0	GP-120030	TEI_Test
GP-53	-	-	-	Updated to Rel-10 with no change as a consequence of upgrade of 51.010-1 and 51.010-2 to Rel-10.	-	9.9.0	10.0.0	-	-
GP-54	GP-120522	0115	-	CR 51.010-5-0115 Correction to test cases 20.22.29, 20.22.29a, 20.22.29b	F	10.0.0	10.1.0	GP-120522	TEI_Test
GP-54	GP-120529	0114	1	CR 51.010-5-0114 Update for the latest version of TTCN	F	10.0.0	10.1.0	GP-120529	TEI_Test
GP-54	-	-	-	In A.2.2, corrected the TTCN file reference to IR_Gva10.MP.	F	10.0.0	10.1.0	-	-
GP-55	GP-120819	0116	-	CR 51.010-5-0116 Update for the latest version of TTCN	F	10.1.0	10.2.0	GP-120819	TEI_Test
GP-56	GP-121216	0117	-	CR 51.010-5-0117 Update for the latest version of TTCN	F	10.2.0	10.3.0	GP-121216	TEI_Test
GP-57	GP-130009	0118	-	CR 51.010-5-0118 Update for the latest version of TTCN	F	10.3.0	10.4.0	GP-130009	TEI_Test
GP-57	GP-130011	0120	-	CR 51.010-5-0120 Correction to IR_G TC 60.6	F	10.3.0	10.4.0	GP-130011	TEI_Test
GP-57	GP-130324	0119	1	CR 51.010-5-0119 Correction to Selection expression of IR_G TC 26.6.11.3	F	10.3.0	10.4.0	GP-130324	TEI_Test
GP-58	GP-130342	0122	-	CR 51.010-5-0122 Correction to Selection expression of IR_G TC 26.6.11.3	F	10.4.0	10.5.0	GP-130342	TEI_Test
GP-58	GP-130379	0121	1	CR 51.010-5-0121 Update for the latest version of TTCN	F	10.4.0	10.5.0	GP-130379	TEI_Test
GP-59	GP-130590	0123	-	CR 51.010-5-0123 Update for the latest version of TTCN	F	10.5.0	10.6.0	GP-130590	TEI_Test
GP-59	GP-130591	0124	-	CR 51.010-5-0124 Correction of UTRA IR_G TC 41.5.1.1.1.4	F	10.5.0	10.6.0	GP-130591	TEI_Test
				Replacement of contents of zip file with correct Spec		10.6.0	10.6.1		
GP-60	GP-130942	0126	1	CR 51.010-5-0126 Update for the latest version of TTCN	F	10.6.1	10.7.0	GP-130942	TEI_Test
GP-60	GP-130943	0127	1	CR 51.010-5-0127 Correction to IR_G testcase 26.6.11.3	F	10.6.1	10.7.0	GP-130943	TEI_Test
GP-60	GP-130944	0128	1	CR 51.010-5-0128 Correction to IR_G testcase 20.25.4	F	10.6.1	10.7.0	GP-130944	TEI_Test
GP-60	GP-130945	0129	1	CR 51.010-5-0129 Correction in order of AT commands for activating PDP context	F	10.6.1	10.7.0	GP-130945	TEI_Test
GP-61	GP-140034	0130	-	CR 51.010-5-0130 Update for the latest version of TTCN	F	10.7.0	10.8.0	GP-140034	TEI_Test
GP-61	GP-140035	0131	-	CR 51.010-5-0131 Correction to IR_G test case 41.5.1.1.1.4	F	10.7.0	10.8.0	GP-140035	TEI_Test

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GP-61	GP-140036	0132	-	CR 51.010-5-0132 Correction to IR_G TC 60.6	F	10.7.0	10.8.0	GP-140036	TEI_Test
GP-62	GP-140257	0133	-	CR 51.010-5-0133 Update for the latest version of TTCN	F	10.8.0	10.9.0	GP-140257	TEI_Test
GP-62	GP-140258	0134	-	CR 51.010-5-0134 Correcting the PICS implementation in TTCN as per specification 51.010-1(GP-140098) and 51.010-2.	F	10.8.0	10.9.0	GP-140258	TEI_Test
GP-62	GP-140259	0135	-	CR 51.010-5-0135 Correction to IR_G Test Suite in	F	10.8.0	10.9.0	GP-140259	TEI_Test
GP-63	GP-140510	0136	-	CR 51.010-5-0136 Update for the latest version of TTCN	F	10.9.0	10.10.0	GP-140510	TEI10_Test
GP-64	GP-140763	0137	-	CR 51.010-5-0137 Update for the latest version of TTCN	F	10.10.0	10.11.0	GP-140763	TEI_Test
GP-64	GP-140791	0138	-	CR 51.010-5-0138 Update of Foreword, Introduction and section 1	F	10.10.0	10.11.0	GP-140791	TEI_Test
GP-65	GP-150026	0139	-	CR 51.010-5-0139 Update for the latest version of TTCN	F	10.11.0	10.12.0	GP-150026	TEI_Test
GP-65	GP-150027	0140	-	CR 51.010-5-0140 Correction to IR_G test case 60.1a	F	10.11.0	10.12.0	GP-150027	TEI_Test
GP-65	GP-150028	0141	-	CR 51.010-5-0141 Addition of GCF WI-187 Rel-9 A5/4 InterRAT test case 60.1b	F	10.11.0	10.12.0	GP-150028	TEI_Test
GP-65	GP-150029	0142	-	CR 51.010-5-0142 Addition of GCF WI-188 Rel-9 UEA2/UIA2 and GEA4 test case 20.22.29c	F	10.11.0	10.12.0	GP-150029	TEI_Test

History

Document history		
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V10.1.0	July 2012	Publication
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V10.4.0	April 2013	Publication
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V10.10.0	September 2014	Publication
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