

# ETSI TS 151 010-2 V12.8.0 (2017-04)



TECHNICAL SPECIFICATION

**Digital cellular telecommunications system (Phase 2+) (GSM);  
Mobile Station (MS) conformance specification;  
Part 2: Protocol Implementation Conformance Statement (PICS)  
proforma specification  
(3GPP TS 51.010-2 version 12.8.0 Release 12)**



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Reference

RTS/TSGR-0551010-2vc80

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Keywords

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GSM

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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>.

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# Contents

Intellectual Property Rights .....	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	4
Introduction .....	4
1 Scope .....	5
2 References .....	5
3 Definitions and abbreviations.....	6
4 Conformance to this PICS proforma specification.....	6
<b>Annex A to D: Void .....</b>	<b>7</b>
<b>Annex E (informative): Change history .....</b>	<b>8</b>
History .....	30

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 Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/99251ca2-1831-4aeb-90c3-b19dc156e85e/etsi-ts-151-010-2-v12.8.0>  
 2017-04

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# Foreword

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

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.

This 3GPP TS provides the Protocol Implementation Conformance Statement (PICS) proforma for Mobile Stations (MSs), operating in the 400 MHz, 700 MHz, 850 MHz, 900 MHz, 1 800 MHz and 1 900 MHz frequency band (GSM 400, GSM 700, GSM 850, R-GSM 900, ER-GSM 900, GSM 900, DCS 1 800 and PCS 1 900) within the digital cellular telecommunications system.

The present document is part 2 of a multi-part deliverable covering the Digital cellular telecommunications system (GSM Phase2 and Phase 2+ Releases 1996, 1997, 1998, 1999, 3GPP Release 4, 3GPP Release 5, 3GPP Release 6, 3GPP Release 7, 3GPP Release 8, 3GPP Release 9, 3GPP Release 10, 3GPP Release 11 and 3GPP Release 12); 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

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# Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

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# 1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for Global System for Mobile Stations (MSs), 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, R-GSM 900, ER-GSM 900, 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 [3] and ETS 300 406 [1].

The present document is valid for MS implemented according to GSM Phase2 or Phase2+ R96, or R97, or R98, or R99 or 3GPP Release 4 or 3GPP Release 5 or 3GPP Release 6 or 3GPP Release 7 or 3GPP Release 8, 3GPP Release 9 or 3GPP Release 10 or 3GPP Release 11 or 3GPP Release 12.

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# 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 12 MS, references to GSM documents are to version 12.x.y, when available.
  - For a GSM Phase 2+ Release 11 MS, references to GSM documents are to version 11.x.y, when available.
  - For a GSM Phase 2+ Release 10 MS, references to GSM documents are to version 10.x.y, when available.
  - For a GSM Phase 2+ Release 9 MS, references to GSM documents are to version 9.x.y, when available.
  - For a GSM Phase 2+ Release 8 MS, references to GSM documents are to version 8.x.y, when available.
  - For a GSM Phase 2+ Release 7 MS, references to GSM documents are to version 7.x.y, when available.
  - For a GSM Phase 2+ Release 6 MS, references to GSM documents are to version 6.x.y, when available.
  - For a GSM Phase 2+ Release 5 MS, references to GSM documents are to version 5.x.y, when available.
  - For a GSM Phase 2+ Release 4 MS, references to GSM documents are to version 4.x.y, when available.
  - 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.
  - For a GSM Phase 2 MS, references to GSM documents are to version 4.x.y.

NOTE: References to 3GPP Technical Specifications and Technical Reports throughout this 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 1: References for a Ph2 MS shall be interpreted as:

[1] 3GPP TS 01.04 Ph2

[2] 3GPP TS 02.02 Ph2

etc

Example 2: References for a Rel-4 MS shall be interpreted as:

[1] 3GPP TS 21.905 Rel-4

[2] 3GPP TS 22.002 Rel-4

etc

[1] to [97] (void)

[98] 3GPP TS 51.010-2 Release 13: "Technical Specification Group GSM/EDGE Radio Access Network; Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification"

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## 3 Definitions and abbreviations

Void

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## 4 Conformance to this PICS proforma specification

The requirements of the present document are provided in 3GPP TS 51.010-2 Release 13 [98].

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Annex A to D:  
Void

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## Annex E (informative): Change history

TSG#	TSG Doc	CR	Rev	Subject/Comment	Cat	Old	New	WG Doc	Work item
GP-04	GP-010465			Approved as v4.0.0		2.0.0	4.0.0		
GP-05	GP-011151	001		Update to applicability table in 51.010-2 due to TDoc G4-010225	F	4.0.0	4.1.0	G4-010242	GPRS
GP-05	GP-011151	002		Addition of EDGE test cases to the applicability table	F	4.0.0	4.1.0	G4-010329	EDGE
GP-05	GP-011151	004		Deletion of Test cases 13.5 and 13.17.5 from the Applicability Table	F	4.0.0	4.1.0	G4-010311	TEI
GP-05	GP-011151	005		Update of the Applicability Table with test cases for GPRS Cell Selection/Reselection 20.22	F	4.0.0	4.1.0	G4-010315	GPRS
GP-05	GP-011151	006		Recommendation for updating the PICS specification 3GPP TS 51.010-2 according to changes in 3GPP TS 51.010-1 or 3GPP TS 11.10-4	B	4.0.0	4.1.0	G4-010302	TEI
GP-06	GP-011466	007		Harmonisation of conformance tests related to terminal acoustics in GSM and 3G	F	4.1.0	4.2.0	G4-010336	TEI
GP-06	GP-011466	008		Correction of title for clause 44.2.3.3.4	F	4.1.0	4.2.0	G4-010369	GPRS
GP-06	GP-011466	009		Correction of conditional statement C226	F	4.1.0	4.2.0	G4-010436	GPRS
GP-06	GP-011466	010		Addition of new EGPRS test cases for section 51.3 (TBF Release)	F	4.1.0	4.2.0	G4-010419	EDGE
GP-06	GP-011466	011		Addition of new EGPRS test cases for section 52.4 (Measurement reports and Cell change order procedures)	F	4.1.0	4.2.0	G4-010420	EDGE
GP-06	GP-011466	012		Applicability table for EGPRS RR Paging Procedures	F	4.1.0	4.2.0	G4-010423	EDGE
GP-06	GP-011466	013		Applicability table for EGPRS Medium Access Control (MAC) Protocol/ Fixed Allocation	F	4.1.0	4.2.0	G4-010425	EDGE
GP-06	GP-011466	014		Addition of new EGPRS test cases for section 53 (EGPRS RLC Testcases)	F	4.1.0	4.2.0	G4-010429	EDGE
GP-06	GP-011466	015		Addition of new EGPRS test cases for section 52.3 (EGPRS MAC Dynamic Allocation)	F	4.1.0	4.1.0	G4-010534	EDGE
GP-06	GP-011466	016		Applicability table for Handover Test Cases	F	4.1.0	4.2.0	G4-010453	GSM/UMTS interworking
GP-06	GP-011466	017		Addition of 1.8V and 1.8V/3V SIM-ME interface test cases into 51.010-2 section A4.8 and Annex B (. applicability table)	F	4.1.0	4.2.0	G4-010494	TEI
GP-06	GP-011466	018		Correction of COMPACT and SoLSA tests in the Release column of table B.1	F	4.1.0	4.2.0	G4-010448	TEI
GP-07	GP-012116	019		deletion of test case 27.11.2.1	F	4.2.0	4.3.0	G5-010043	TEI
GP-07	GP-012117	020		Correction of applicability condition C220 in Annex B.1	F	4.2.0	4.3.0	G5-010027	TEI
GP-07	GP-012118	021		Correction of applicability condition C52 in Annex B.1	F	4.2.0	4.3.0	G5-010028	TEI
GP-07	GP-012119	022		Changes to applicability of test case 44.2.1.2.3	F	4.2.0	4.3.0	G5-010149	GPRS
GP-07	GP-012120	023		45.2.1.2.1 – This Test Case Should Only Be Applicable To Mobiles That Support Configuration of Their QoS.	F	4.2.0	4.3.0	G5-010159	GPRS
GP-07	GP-012609	034		Applicability Table for E-OTD Test Cases for LCS Clause 70 (Rel-4)	F	4.2.0	4.3.0	-	LCS
GP-07	GP-012273	024		CR 51.010-2-024 on Annex B - removal of test case 51.2.4.2 (related to G4-010594) Rel-4	F	4.2.0	4.3.0	G4-010622	EDGE
GP-07	GP-012274	025		CR 51.010-2-025 on GSM 700 and GSM850 inclusion into forward Rel-4	B	4.2.0	4.3.0	G4-010649	GSM 700
GP-07	GP-012275	026		CR 51.010-2-026 on New test cases for clause 42.1 Rel-4	B	4.2.0	4.3.0	G4-010649	GPRS
GP-07	GP-012276	027		CR 51.010-2-027 on change of test case name for clause 51.2.2.2. Rel-4	F	4.2.0	4.3.0	G4-010663	EDGE
GP-07	GP-012277	028		CR 51.010-2-028 on Table B1 - Addition of section 52.1 testcases to the applicability table Rel-4	B	4.2.0	4.3.0	G4-010669	EGPRS
GP-07	GP-012191	030		CR 51.010-2-030 Correction to the Applicability of test cases 13.17.1; 13.17.3 and 13.17.4 (Rel-4)	F	4.2.0	4.3.0	GP-012191	EDGE
GP-07	GP-012201	031		CR 51.010-2-31 Annex B - renaming of test case 51.2.4.1 (Rel-4)	F	4.2.0	4.3.0	GP-012201	EDGE

TSG#	TSG Doc	CR	Rev	Subject/Comment	Cat	Old	New	WG Doc	Work item
GP-07	GP-012722	034	1	CR 51.010-2-034r1 Bad frame indication - TCH/AFS - Random RF input 51.010-2	B	4.2.0	4.3.0	GP-012722	AMR
GP-07	GP-012732	035		CR 51.010-2-035 14.18.7 Incremental Redundancy Performance, (addition of a new test) (Rel-4)	B	4.2.0	4.3.0	GP-012732	EGPRS
GP-07	GP-012784	036		CR 51.010-2-036 Applicability of test 42.2.2.4; Fixed Allocation/Uplink Transfer/T3184 Expiry	F	4.2.0	4.3.0	GP-012784	GPRS
GP-07	GP-012296	037		CR 51.010-2-035 Bad frame indication - TCH/AHS - Random RF input 51.010-2	B	4.2.0	4.3.0	GP-012296	AMR
GP-08	GP-020367	041	1	Applicability Table for E-OTD Test Cases for LCS Clause 70 (Rel-4)	F	4.3.0	4.4.0	GP-020367	LCS
GP-08	GP-020064	042		Update of references	F	4.3.0	4.4.0	GP-020064	TEI
GP-08	GP-020148	044		Additional Test Case	B	4.3.0	4.4.0	GP-020148	GPRS
GP-08	GP-020378	045	1	Addition of LCS test cases to the Applicability Tables A2 and B.1	F	4.3.0	4.4.0	GP-020378	LCS
GP-09	GP-021053	047	1	Applicability Table B.1: Addition of test of short message type 0 (34.2.6)	F	4.4.0	4.5.0	GP-021053	TEI
GP-09	GP-020549	048	-	Correction to reference clause	F	4.4.0	4.5.0	GP-020549	TEI
GP-09	GP-021213	049	1	CR 51.010-2-049 Addition of LCS performance test cases to the Applicability Table B.1	F	4.4.0	4.5.0		LCS
GP-09	GP-020605	051	-	51.010-2 Annex B: Correction of applicability table for section 46	F	4.4.0	4.8.0	GP-020605	GPRS
GP-09	GP-020665	052		Removal of applicability of GPRS Fixed Allocation tests (42.2.x) for R99 and Rel-4 - (Rel-4).	F	4.4.0	4.5.0		GPRS
GP-09	GP-020666	053		Removal of EGPRS Fixed Allocation tests (52.2.x) for R99 and Rel-4 - (Rel-4).	F	4.4.0	4.5.0		EDGE
GP-09	GP-020728	054	-	PICS update for GERAN to UTRAN Handover test cases	F	4.4.0	4.5.0	GP-020728	GERAN>UTRAN HO
GP-09	GP-020784	057		Removal of testcase 20.22.27 of 51.010-1	F	4.4.0	4.5.0		GPRS
GP-09	GP-021181	058	3	Applicability Table for A-GPS Test Cases for LCS Clause 70 (Rel-4)	F	4.4.0	4.5.0	GP-021181	LCS
GP-10	GP-021840	059	1	CR to Applicability Table B.1: Correction of	F	4.5.0	4.6.0	GP-021840	TEI
GP-10	GP-021842	060	1	51.010-2-060 Correct the Applicability Tables	F	4.5.0	4.6.0	GP-021842	LCS
GP-10	GP-021561	061	-	PICS update for AMR RATSCCH Test Cases	F	4.5.0	4.6.0	GP-021561	AMR
GP-10	GP-021871	062	1	Annex B – Renaming of testcase 41.4.3.3.2	F	4.5.0	4.6.0	GP-021561	GPRS
GP-11	GP-022747	069	2	51.010-2 PICS additions to section A.4.8 to better characterise non auto GPRS attach behaviour.	F	4.6.0	4.7.0	GP-022747	GPRS
GP-11	GP-022735	070	1	CR 51.010-2-070 r1 Modification of Applicability Table for E-OTD Performance Tests	F	4.6.0	4.7.0	GP-022735	LCS
GP-11	GP-022621	071	1	DTM additions to the PICS proforma tables for GSM mobile stations.	F	4.6.0	4.7.0	GP-022621	DTM
GP-11	GP-022294	072	-	DTM additions to the test applicability tables for GSM mobile stations (WG5).	F	4.6.0	4.7.0	GP-022294	DTM
GP-11	GP-022320	073		CR 51.010-2-073 DTM additions to the test applicability tables for GSM mobile stations (WG4).	F	4.6.0	4.7.0	GP-022320	DTM
GP-11	GP-022342	074		CR 51.010-2-074 Removal of 5 EGPRS test cases from Annex B, Table B.1. - Rel-4	F	4.6.0	4.7.0	GP-022342	EDGE
GP-11	GP-022693	075	1	Correction of PICS conditions and corrected applicability of test case 45.2.1.2.2 in TS 51.010-2	F	4.6.0	4.7.0	GP-022693	TEI4
GP-11	GP-022424	077	-	Applicability Table Update	F	4.6.0	4.7.0	GP-022424	LCS
GP-11	GP-022602	078	1	CR 51.010-2-078 r1 Removal of TBF establishment via DCCH in Annex B, Table B.1	F	4.6.0	4.7.0	GP-022602	GPRS
GP-11	GP-022734	079	1	CR 51.010-2-079 r1 Addition of new layer 1 tests to matrix	F	4.6.0	4.7.0	GP-022734	AMR
GP-11	GP-022635	080	1	Addition of new layer 3 tests to matrix	F	4.6.0	4.7.0	GP-022635	AMR
GP-11	GP-022473	081	-	Applicability Table for E-OTD MOLR test cases	F	4.6.0	4.7.0	GP-022473	LCS
GP									
GP-11	GP-022625	066	1	CR to 51.010-2: Addition of test of short message type 0 REL-5 (34.2.6a) to Applicability Table B.1	F	4.6.0	5.0.0	GP-022625	TEI
GP-11	GP-022128	067	-	Creation of 51.010-2 REL-5: Merging of REL-5, REL-4, R99 etc. PICS proforma Specifications	F	4.6.0	5.0.0	GP-022128	TEI

TSG#	TSG Doc	CR	Rev	Subject/Comment	Cat	Old	New	WG Doc	Work item
GP-12	GP-023335	083	1	CR 51.010-2-083 r1 Addition of WG4 DTM Conformance Tests to the Applicability table (Rel-5)	F	5.0.0	5.1.0	GP-023335	DTM
GP-12	GP-022948	084	-	Addition of WG5 DTM Conformance Tests to the Applicability Table	F	5.0.0	5.1.0	GP-022948	DTM
GP-12	GP-023388	086	1	Applicability Table Update	F	5.0.0	5.1.0	GP-023388	LCS
GP-12	GP-023033	087		CR 51.010-2-087 Changed the name of clause 51.2.2.3.	F	5.0.0	5.1.0	GP-023033	EDGE
GP-12	GP-023047	088	-	Change of Applicability for test case 44.2.1.1.8 - GPRS attach/abnormal cases/power off	F	5.0.0	5.1.0	GP-023047	GPRS
GP-12	GP-023295	089	1	Add AMR half rate optional applicability	F	5.0.0	5.1.0	GP-023295	AMR
GP-12	GP-023385	091	1	Introduction of UTRAN Classmark Change test cases in section 26.6.11	F	5.0.0	5.1.0	GP-023385	TEI
GP-12	GP-023096	092		CR 51.010-2-092 Addition of Extended Uplink TBF Mode test cases to matrix	F	5.0.0	5.1.0	GP-023096	GPRS
GP-12	GP-023142	093	-	Applicability Table for GMM Test Cases	F	5.0.0	5.1.0	GP-023142	GPRS
GP-12	GP-023393	094	2	Applicability Table for E-OTD MOLR test cases	F	5.0.0	5.1.0	GP-023393	LCS
GP-12	GP-023334	095	1	CR 51.010-2-095 r1 Error in Conditional Expression C53 in Table B.1	F	5.0.0	5.1.0	GP-023334	GPRS
GP-12	GP-023392	096	2	Modifications to allow introduction of the 11.10-4 R99 Test Spec	F	5.0.0	5.1.0	GP-023392	TEI
GP-12	GP-023338	097		CR 51.010-2-097 Addition of 4 new EGPRS test cases.	F	5.0.0	5.1.0	GP-023338	EDGE
GP-13	GP-030368	099	2	Applicability of "Speech teleservices" test cases in Annex B	F	5.1.0	5.2.0	GP-030368	TEI
GP-13	GP-030394	100	2	CR 51.010-2-100 r2 Update of applicability table	B	5.1.0	5.2.0		EDGE
GP-13	GP-030167	101		Update to Applicability Table Indicating Tests for MS-Assisted E-OTD	F	5.1.0	5.2.0	GP-030167	LCS
GP-13	GP-030363	102	1	Update to Applicability Table for Assisted GPS MO-LR Tests	F	5.1.0	5.2.0	GP-030363	LCS
GP-13	GP-030359	103	1	suppression of table A.26.2 Terminal Profile	F	5.1.0	5.2.0	GP-030359	SAT
GP-13	GP-030348	104		CR 51.010-2-104 Updating PICS for AMR test cases	B	5.1.0	5.2.0		AMR-NB
GP-13	GP-030389	105		CR 51.010-2-105 Updating PICS for EMR cases	B	5.1.0	5.2.0		TEI
GP-13	GP-030395	106	1	CR 51.010-2 106 r1 Addition of test case on NC2 and Re-allocation in uplink	B	5.1.0	5.2.0		GPRS (S42)
GP-14	GP-030499	107	-	Clarification to speech codec definitions	F	5.2.0	5.3.0	GP-030499	TEI
GP-14	GP-030500	108	-	Correction of Applicability column for clause 14.2.4.	F	5.2.0	5.3.0	GP-030500	TEI
GP-14	GP-030966	109	1	Addition of some DTM test cases to the applicability table.	F	5.2.0	5.3.0	GP-030966	DTM
GP-14	GP-030639	110	-	Deletion of test cases 42.4.2.1.5 and 52.4.2.1.5 from Table B.1.	F	5.2.0	5.3.0	GP-030639	GPRS
GP-14	GP-031044	111	2	Modification of applicability table in 51.010-2 due to introduction of new test cases in 51.010-1	F	5.2.0	5.3.0	GP-031044	GPRS
GP-14	GP-031017	113	2	Addition of test case in TS 51.010 S42: Packet Uplink Assignment containing a new Coding Scheme command.	F	5.2.0	5.3.0	GP-031017	GPRS
GP-14	GP-030841	114	-	Updating PICS for RxQual test cases	F	5.2.0	5.3.0	GP-030841	AMR
GP-14	GP-030999	115	1	Modification of applicability table in 51.010-2 due to introduction of new test cases in 51.010-1	F	5.2.0	5.3.0	GP-030999	GSM
GP-14	GP-030994	116	1	Addition of test cases for Network Assisted Cell Change	B	5.2.0	5.3.0	GP-030994	NACC
GP-14	GP-031013	117	-	CR 51.010-2 Incorrect applicability for 6 test cases of section 42.3.1.1.*	F	5.2.0	5.3.0	GP-031013	GPRS
GP-14	GP-031050	118	2	Update PICS for GPRS EMR Test case	F	5.2.0	5.3.0	GP-031050	GPRS
GP-15	GP-031086	119		CR 51.010-2-119 Table B.1: Conditions for TCs 14.2.18, 14.4.16, 26.6.5.2-2, 26.6.5.2-5, 26.6.5.2-6, 26.6.5.2-10 corrected; Missing TC 31.3.1.2.2.1 added	F	5.3.0	5.4.0	GP-031086	TEI
GP-15	GP-031287	122		CR 51.010-2-122 B1 Add new TC - 44.2.3.1.1a - Routing area updating / accepted / old P-TMSI	F	5.3.0	5.4.0	GP-031287	GPRS
GP-15	GP-031314	123		CR 51.010-2-123 Modification of applicability table in 51.010-2 due to introduction of new test cases in 51.010-1 and change of some testcases titles	F	5.3.0	5.4.0	GP-031314	GPRS