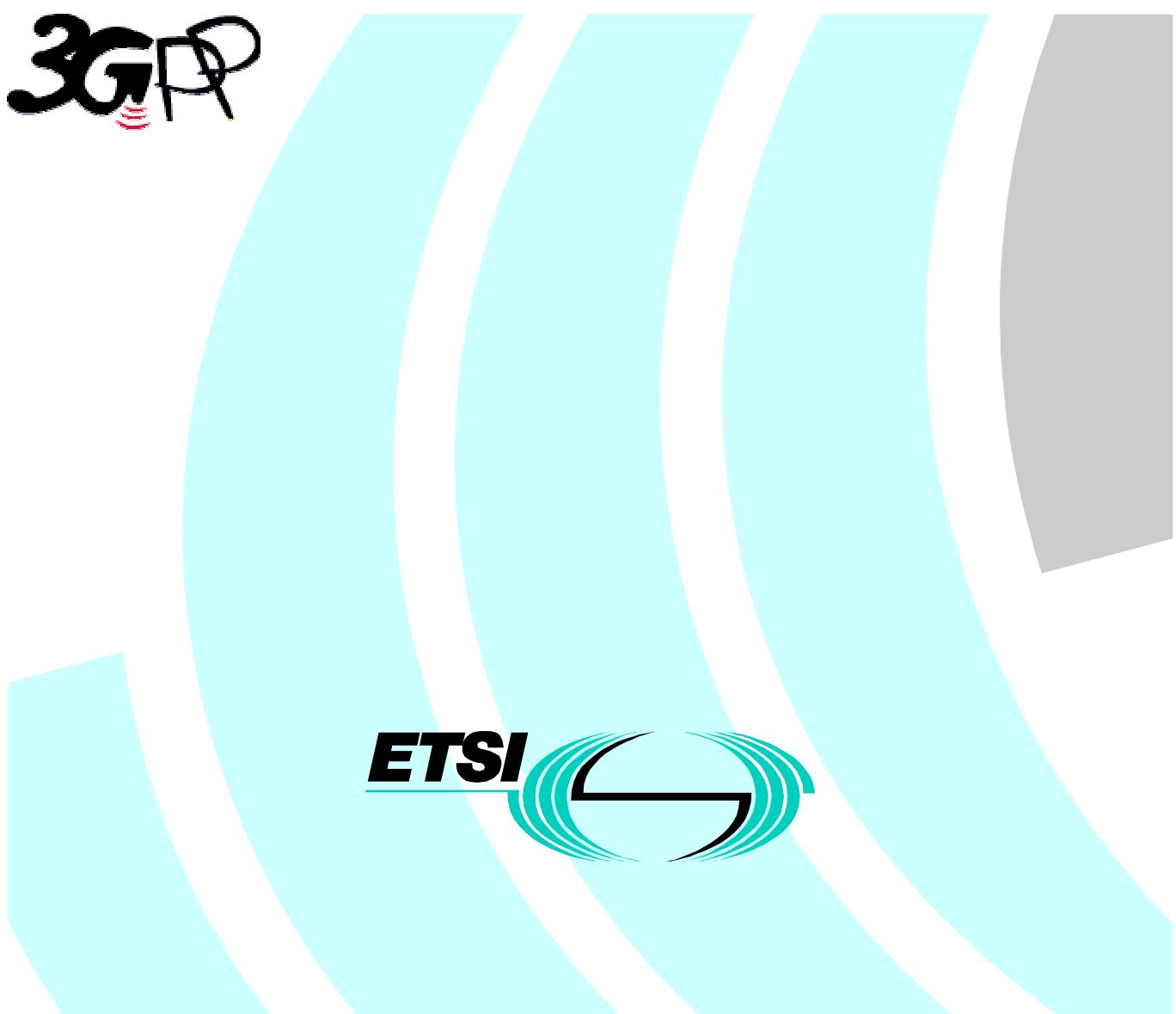


**Universal Mobile Telecommunications System (UMTS);
User Equipment (UE) conformance specification;
Part 1: Protocol conformance specification
(3GPP TS 34.123-1 version 3.5.0 Release 1999)**



Reference

RTS/TSGT-0134123-1UR6

Keywords

UMTS

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Foreword

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Foreword

This Technical Specification (TS) has been produced by the 3rd 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.

Introduction

The present document is the first part of a multi-part conformance specification. TS 34.123-2 (part 2) [11] contains a pro-forma for the Implementation Conformance Statement (ICS). TS 34.123-3 (part 3) [12] contains a detailed and executable description of the test cases written in a standard testing language, TTCN, as defined in ISO/IEC 9646.

For at least a minimum set of services, the prose descriptions of test cases will have a matching detailed test case implemented in TTCN [12].

The minimum set of services are defined as:

- voice calls;
- emergency calls;
- SMS (both Point-to-point and Cell broadcast);
- Circuit Switched data at up to 64 k bits/second;
- fax;

including the underlying layers to support these services.

Release 99 will also include the areas:

- auto-calling restrictions.

The present document may contain descriptions of tests for additional services, but these tests may not have matching TTCN test cases.

The present document will not contain any tests on the USIM, or the interface between the UE and the USIM. These tests are documented elsewhere.

Version 1.0.0 of this specification is intended to be at least 60% complete as judged against its anticipated release 99 contents. Version 3.0.0 is intended to be better than 98% complete as judged against its anticipated release 99 contents. These figures should not be taken as representing test coverage of the release 99 core specifications.

1 Scope

The present document specifies the protocol conformance testing for the 3rd Generation User Equipment (UE).

This is the first part of a multi-part test specification. The following information can be found in this part:

- the overall test structure;
- the test configurations;
- the conformance requirement and reference to the core specifications;
- the test purposes; and
- a brief description of the test procedure, the specific test requirements and short message exchange table.

The following information relevant to testing can be found in accompanying specifications:

- the default setting of the test parameters [9]
- the applicability of each test case [11]

A detailed description of the expected sequence of messages can be found in the 3rd part of this test specification.

The Implementation Conformance Statement (ICS) pro-forma can be found in the 2nd part of this specification.

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] to [8] | (void) |
| [9] | 3GPP TS 34.108: "Reference Environment for Conformance Testing of 3G user equipment (UE)". |
| [10] | (void) |
| [11] | 3GPP TS 34.123-2: "Mobile Station (MS) Conformance Specification, Part 2 - ICS". |
| [12] | 3GPP TS 34.123-3: "Mobile Station (MS) Conformance Specification, Part 3 - Abstract Test Suites". |
| [13] | (void) |
| [14] | 3GPP TS 34.123-1 version 4 (Release 4): "User Equipment (UE) Conformance Specification, Part 1 – Protocol conformance specification |

3 Definitions and abbreviations

(void)

4 Requirements

The requirements of the present document are provided in 3GPP TS 34.123-1 [14].

5 – 18 (void)

Annex A: (void)

Annex B (informative):
(void)

Annex C (informative): Change history

| Meeting -1st- Level | Doc-1st- Level | CR | Rev | Subject | Cat | Version- Current | Version -New | Doc-2nd- Level |
|---------------------------|-------------------|-----|-----|--|-----|---------------------|-----------------|-------------------|
| TP-08 | | | | Approval of the specification | | 2.0.0 | 3.0.0 | |
| TP-09 | TP-000135 | 001 | | Idle mode test cases | F | 3.0.0 | 3.1.0 | T1-000165 |
| TP-09 | TP-000135 | 002 | | Section 8, RRC Tests: RLCSIZE | C | 3.0.0 | 3.1.0 | T1-000169 |
| TP-09 | TP-000135 | 003 | | Section 8, RRC Tests: HFN | C | 3.0.0 | 3.1.0 | T1-000170 |
| TP-09 | TP-000135 | 004 | | Section 8, RRC Tests: RLCPParam | C | 3.0.0 | 3.1.0 | T1-000171 |
| TP-09 | TP-000135 | 005 | | Section 8, RRC Tests: RBIdentity | C | 3.0.0 | 3.1.0 | T1-000172 |
| TP-09 | TP-000135 | 006 | | Section 8, RRC Tests: TrCHParam | C | 3.0.0 | 3.1.0 | T1-000173 |
| TP-09 | TP-000135 | 007 | | Section 8, RRC Tests: UECapability | C | 3.0.0 | 3.1.0 | T1-000174 |
| TP-09 | TP-000135 | 008 | | Section 8, RRC Tests: RBMapping | C | 3.0.0 | 3.1.0 | T1-000175 |
| TP-09 | TP-000135 | 009 | | Section 8, RRC Tests: PagingCause | C | 3.0.0 | 3.1.0 | T1-000176 |
| TP-09 | TP-000135 | 010 | | Section 8, RRC Tests: RRCCConnRelease-TM | B | 3.0.0 | 3.1.0 | T1-000177 |
| TP-09 | TP-000135 | 011 | | Section 8, RRC Tests: SignallingRelease | B | 3.0.0 | 3.1.0 | T1-000178 |
| TP-09 | TP-000135 | 012 | | Section 8, RRC Tests: CipheringAndIntegrity | C | 3.0.0 | 3.1.0 | T1-000179 |
| TP-09 | TP-000135 | 013 | | Section 8, RRC Tests: Countercheck_rev | B | 3.0.0 | 3.1.0 | T1-000180 |
| TP-09 | TP-000135 | 014 | | Section 8, RRC Tests: RLCInfo | C | 3.0.0 | 3.1.0 | T1-000181 |
| TP-09 | TP-000135 | 015 | | Section 8, RRC Tests: CompressedMode | C | 3.0.0 | 3.1.0 | T1-000182 |
| TP-09 | TP-000135 | 016 | | Section 8, RRC Tests: SIB | F | 3.0.0 | 3.1.0 | T1-000183 |
| TP-09 | TP-000135 | 017 | | Section 8, RRC Tests: PhyCH | D | 3.0.0 | 3.1.0 | T1-000184 |
| TP-09 | TP-000135 | 018 | | Section 8, RRC Tests: Measurement | C | 3.0.0 | 3.1.0 | T1-000185 |
| TP-09 | TP-000135 | 019 | | Section 8, RRC Tests: FailureCases | C | 3.0.0 | 3.1.0 | T1-000186 |
| TP-09 | TP-000135 | 020 | | Section 8, RRC Tests: TFCS | C | 3.0.0 | 3.1.0 | T1-000187 |
| TP-09 | TP-000135 | 021 | | Section 8, RRC Tests: DPCHFrameOffset | C | 3.0.0 | 3.1.0 | T1-000188 |
| TP-09 | TP-000135 | 022 | | Section 8, RRC Tests: ReEstablishmentTimer | C | 3.0.0 | 3.1.0 | T1-000189 |
| TP-09 | TP-000135 | 023 | | Section 8, RRC Tests: InterFrequencyHardHandOver | F | 3.0.0 | 3.1.0 | T1-000206 |
| TP-09 | TP-000135 | 024 | | clause 12.4.1.5 "Routing area updating / abnormal cases / attempt counter check / miscellaneous reject causes" | C | 3.0.0 | 3.1.0 | T1-000211 |
| TP-09 | TP-000135 | 025 | | SM test cases | C | 3.0.0 | 3.1.0 | T1-000208 |
| TP-09 | TP-000135 | 026 | | MM: Authentication | F | 3.0.0 | 3.1.0 | T1-000207 |
| TP-09 | TP-000135 | 027 | | Update of radio bearer test cases (aligned to GSMA ISG version 1.3) | F | 3.0.0 | 3.1.0 | T1-000213 |
| TP-09 | TP-000135 | 028 | | MAC tests | B | 3.0.0 | 3.1.0 | T1-000218 |
| TP-09 | TP-000135 | 029 | | PDCP tests | B | 3.0.0 | 3.1.0 | T1-000166 |
| TP-09 | TP-000135 | 030 | | BMC tests | B | 3.0.0 | 3.1.0 | T1-000167 |
| TP-09 | TP-000135 | 031 | | RRC updates | F | 3.0.0 | 3.1.0 | T1-000168 |
| TP-09 | TP-000135 | 032 | | clause 12.6.1.2 "Authentication rejected" | F | 3.0.0 | 3.1.0 | T1-000210 |
| TP-09 | TP-000135 | 033 | | clause 12.6 "PS authentication and ciphering" | C | 3.0.0 | 3.1.0 | T1-000209 |
| TP-10 | TP-000218 | 034 | | Application of integrity mode protection to signalling message by default | F | 3.1.0 | 3.2.0 | T1-000297 |
| TP-10 | TP-000218 | 035 | | New test cases for CS intersystem handover | B | 3.1.0 | 3.2.0 | T1-000300 |
| TP-10 | TP-000218 | 036 | | CR to 34.123-1, Annex B, Mapping of test cases to core specification versions | D | 3.1.0 | 3.2.0 | T1-000319 |
| TP-10 | TP-000218 | 037 | | Application of ciphering during conformance testing and changes to integrity mode protection related messages | C | 3.1.0 | 3.2.0 | T1-000286 |
| TP-10 | TP-000218 | 038 | | Idle Mode test cases in chapter 6 | F | 3.1.0 | 3.2.0 | T1-000288 |
| TP-10 | TP-000218 | 039 | | Update to RLC test cases | F | 3.1.0 | 3.2.0 | T1-000301 |
| TP-10 | TP-000218 | 040 | | Technical Corrections to RRC test cases in clause 8 | F | 3.1.0 | 3.2.0 | T1-000292 |
| TP-10 | TP-000218 | 041 | | Updates to clause 8 and Annex A due to RAN2 core specifications modifications | C | 3.1.0 | 3.2.0 | T1-000293 |
| TP-10 | TP-000218 | 042 | | Editorial modification for CC test cases (Clause 10) | D | 3.1.0 | 3.2.0 | T1-000289 |
| TP-10 | TP-000218 | 043 | | Update of radio bearer test cases | F | 3.1.0 | 3.2.0 | T1-000290 |
| TP-10 | TP-000218 | 044 | | Update of Session Management test cases | B | 3.1.0 | 3.2.0 | T1-000298 |
| TP-10 | TP-000218 | 045 | | Modification to the "Authentication rejected by the UE" test case | F | 3.1.0 | 3.2.0 | T1-000308 |
| TP-10 | TP-000218 | 046 | | Update to 16. SMS test specification | F | 3.1.0 | 3.2.0 | T1-000309 |
| TP-10 | TP-000218 | 047 | | Correction to MM tests | D | 3.1.0 | 3.2.0 | T1-000310 |
| TP-11 | TP-010021 | 048 | | Idle mode test cases | F | 3.2.0 | 3.3.0 | T1-010076 |
| TP-11 | TP-010021 | 049 | | Updates to clause 8 of TS 34.123-1 version 3.2.0 | F | 3.2.0 | 3.3.0 | T1-010106 |
| TP-11 | TP-010021 | 050 | | Update to GMM test case. | F | 3.2.0 | 3.3.0 | T1-010086 |
| TP-11 | TP-010021 | 051 | | Update to 16. SMS test specification | D | 3.2.0 | 3.3.0 | T1-010090 |
| TP-11 | TP-010021 | 052 | | Annex B: Update of versions of core specifications | F | 3.2.0 | 3.3.0 | T1-010091 |
| TP-12 | TP-010121 | 053 | | Idle mode tests | F | 3.3.0 | 3.4.0 | T1-010167 |
| TP-12 | TP-010121 | 054 | | Clause 7.2: Update of RLC tests to 25.322 v3.5.0 | F | 3.3.0 | 3.4.0 | T1-010170 |

| Meeting -1st-Level | Doc-1st-Level | CR | Rev | Subject | Cat | Version-Current | Version-New | Doc-2nd-Level |
|--------------------|---------------|-----|-----|---|-----|-----------------|-------------|---------------|
| TP-12 | TP-010121 | 055 | | Corrections to Clause 7.2: RLC test case updates | F | 3.3.0 | 3.4.0 | T1-010171 |
| TP-12 | TP-010121 | 056 | | Corrections to clause 7.3 PDCP | F | 3.3.0 | 3.4.0 | T1-010173 |
| TP-12 | TP-010121 | 057 | | Corrections to clause 7.4 BMC | F | 3.3.0 | 3.4.0 | T1-010174 |
| TP-12 | TP-010121 | 058 | | 7.1 Update to MAC test cases | F | 3.3.0 | 3.4.0 | T1-010175 |
| TP-12 | TP-010121 | 059 | | Modifications to the functional testing of CPCH related UE test cases | C | 3.3.0 | 3.4.0 | T1-010176 |
| TP-12 | TP-010121 | 060 | | Transmission RLC discard | F | 3.3.0 | 3.4.0 | T1-010178 |
| TP-12 | TP-010121 | 061 | | Updates to RRC test case | F | 3.3.0 | 3.4.0 | T1-010179 |
| TP-12 | TP-010121 | 062 | | Deletion of intersystem handover tests GERAN to UTRAN | F | 3.3.0 | 3.4.0 | T1-010181 |
| TP-12 | TP-010121 | 063 | | Corrections to CC test cases | F | 3.3.0 | 3.4.0 | T1-010183 |
| TP-12 | TP-010121 | 064 | | Corrections to Emergency call test cases | F | 3.3.0 | 3.4.0 | T1-010184 |
| TP-12 | TP-010121 | 065 | | Corrections to test of autocalling restrictions | F | 3.3.0 | 3.4.0 | T1-010185 |
| TP-12 | TP-010121 | 066 | | Corrections to call re-establishment tests in CC | F | 3.3.0 | 3.4.0 | T1-010187 |
| TP-12 | TP-010121 | 067 | | MM test case update | F | 3.3.0 | 3.4.0 | T1-010189 |
| TP-12 | TP-010121 | 068 | | CR to 34.123-1 | F | 3.3.0 | 3.4.0 | T1-010193 |
| TP-12 | TP-010121 | 069 | | SMS Update | F | 3.3.0 | 3.4.0 | T1-010194 |
| TP-12 | TP-010121 | 070 | | SMS test specification | F | 3.3.0 | 3.4.0 | T1-010196 |
| TP-12 | TP-010121 | 071 | | Update to GMM test cases | F | 3.3.0 | 3.4.0 | T1-010235 |
| TP-12 | TP-010121 | 072 | | GMM service request test cases | F | 3.3.0 | 3.4.0 | T1-010236 |
| TP-12 | TP-010121 | 073 | | GMM authentication reject test cases | F | 3.3.0 | 3.4.0 | T1-010237 |
| TP-12 | TP-010121 | 074 | | Modifications to Clause 12 (GMM) | F | 3.3.0 | 3.4.0 | T1-010202 |
| TP-12 | TP-010121 | 075 | | Correction in test case 11.1, because of problems in core-specs | F | 3.3.0 | 3.4.0 | T1-010203 |
| TP-12 | TP-010121 | 076 | | Procedure and Expected Sequence Corrections to 11.1.2. | F | 3.3.0 | 3.4.0 | T1-010204 |
| TP-12 | TP-010121 | 077 | | Adding section for multi-layer functional testing | D | 3.3.0 | 3.4.0 | T1-010207 |
| TP-12 | TP-010121 | 078 | | Update of interoperability radio bearer test cases | F | 3.3.0 | 3.4.0 | T1-010208 |
| TP-12 | TP-010121 | 079 | | CR to TS 34.123-1 Update of Table B/1 | D | 3.3.0 | 3.4.0 | T1-010217 |
| TP-13 | TP-010186 | 080 | | Parameters update and Editorial corrections in clauses 7.2.3.1, 7.2.3.2.1, 7.2.3.23, 7.2.3.24 | F | 3.4.0 | 3.5.0 | T1-010292 |
| TP-13 | TP-010186 | 081 | | Corrections to Clause 13 General Tests | F | 3.4.0 | 3.5.0 | T1-010293 |
| TP-13 | TP-010186 | 082 | | Modification in "Method of Test" for RBS test cases in Clause 14 | F | 3.4.0 | 3.5.0 | T1-010294 |
| TP-13 | TP-010186 | 083 | | Editorial modification for References | F | 3.4.0 | 3.5.0 | T1-010295 |
| TP-13 | TP-010186 | 084 | | Clause 7.3, PDCP tests | F | 3.4.0 | 3.5.0 | T1-010378 |
| TP-13 | TP-010186 | 085 | | Idle mode: Merge of T1S-010180 and 188 | F | 3.4.0 | 3.5.0 | T1-010297 |
| TP-13 | TP-010186 | 086 | | clause 7.4 BMC: editorial correction | F | 3.4.0 | 3.5.0 | T1-010379 |
| TP-13 | TP-010186 | 087 | | Clause 7.1, MAC test cases | F | 3.4.0 | 3.5.0 | T1-010299 |
| TP-13 | TP-010186 | 088 | | Corrections to RLC test case 7.2.2.2 | F | 3.4.0 | 3.5.0 | T1-010300 |
| TP-13 | TP-010186 | 089 | | Corrections to RLC test case 7.2.2.3 | F | 3.4.0 | 3.5.0 | T1-010301 |
| TP-13 | TP-010186 | 090 | | Corrections to RLC test case 7.2.2.8 | F | 3.4.0 | 3.5.0 | T1-010302 |
| TP-13 | TP-010186 | 091 | | Corrections to RLC test case 7.2.2.10 | F | 3.4.0 | 3.5.0 | T1-010303 |
| TP-13 | TP-010186 | 092 | | Corrections to RLC test case 7.2.2.9 | F | 3.4.0 | 3.5.0 | T1-010304 |
| TP-13 | TP-010186 | 093 | | Corrections to RLC test case 7.2.2.12 | F | 3.4.0 | 3.5.0 | T1-010305 |
| TP-13 | TP-010186 | 094 | | Corrections to RLC test case 7.2.2.29 | F | 3.4.0 | 3.5.0 | T1-010306 |
| TP-13 | TP-010186 | 095 | | Corrections to RLC test case 7.2.2.30 | F | 3.4.0 | 3.5.0 | T1-010307 |
| TP-13 | TP-010186 | 096 | | Corrections to RLC test case 7.2.2.33 | F | 3.4.0 | 3.5.0 | T1-010308 |
| TP-13 | TP-010186 | 097 | | Corrections to RLC test case 7.2.2.34 | F | 3.4.0 | 3.5.0 | T1-010309 |
| TP-13 | TP-010186 | 098 | | Updates to clause 8 and Annex A | F | 3.4.0 | 3.5.0 | T1-010310 |
| TP-13 | TP-010186 | 099 | | RRC tests (section 8) | F | 3.4.0 | 3.5.0 | T1-010311 |
| TP-13 | TP-010186 | 100 | | InterSystemHandover tests (section 8.3.7) | F | 3.4.0 | 3.5.0 | T1-010312 |
| TP-13 | TP-010186 | 101 | | Update on Mobility Management | F | 3.4.0 | 3.5.0 | T1-010313 |
| TP-13 | TP-010186 | 102 | | Addition of a SM test case for UE in GSM | F | 3.4.0 | 3.5.0 | T1-010314 |
| TP-13 | TP-010186 | 103 | | Clause 12 "Elementary procedure for Packet Switched Mobility Management"(GMM) | F | 3.4.0 | 3.5.0 | T1-010315 |
| TP-13 | TP-010186 | 104 | | Update of radio bearer test cases | F | 3.4.0 | 3.5.0 | T1-010316 |
| TP-13 | TP-010186 | 105 | | SMS test specification | F | 3.4.0 | 3.5.0 | T1-010317 |
| TP-13 | TP-010186 | 107 | | Corrections to RLC test case 7.2.2.14 | F | 3.4.0 | 3.5.0 | T1-010319 |
| TP-13 | TP-010186 | 108 | | Corrections to RLC test case 7.2.2.7 and 7.2.2.13 | F | 3.4.0 | 3.5.0 | T1-010320 |
| TP-13 | TP-010186 | 109 | | RLC acknowledge mode test cases 7.2.3.14 and 7.2.3.34 | F | 3.4.0 | 3.5.0 | T1-010321 |
| TP-13 | TP-010188 | 111 | | Inclusion of pointer to maintained specification | F | 3.4.0 | 3.5.0 | T1-010367 |
| TP-13 | TP-010189 | 112 | | Update of Annex B | F | 3.4.0 | 3.5.0 | ---- |

History

| Document history | | |
|-------------------------|----------------|-------------|
| V3.0.0 | August 2000 | Publication |
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