

ETSI TS 134 122 V5.7.0 (2007-03)

Technical Specification

**Universal Mobile Telecommunications System (UMTS);
Terminal conformance specification,
Radio transmission and reception (TDD)
(3GPP TS 34.122 version 5.7.0 Release 5)**



Reference

RTS/TSGR-0534122v570

Keywords

UMTS

ETSI

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Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

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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.

1 Scope

This present document specifies the measurement procedure for the conformance test of the mobile station that contain transmitting characteristics, receiving characteristics and performance requirements in addition to requirements for support of RRM (Radio Resource Management) in both UTRATDD modes. The two options are the 3,84 Mcps TDD Option and 1,28 Mcps TDD Option, respectively.

The requirements are listed in different clauses only if the corresponding parameters deviate. More generally, tests are only applicable to those mobiles that are intended to support the appropriate functionality. To indicate the circumstances in which tests apply, this is noted in the “definition and applicability” part of the test.

For example only release 5 and later UE declared to support HSDPA shall be tested for this functionality. In the event that for some tests different conditions apply for different releases, this is indicated within the text of the test itself.

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 34.122 (Release-6): "Terminal conformance specification; Radio transmission and reception (TDD)".

3 Requirements

The requirements of the present document are provided in 3GPP TS 34.122 Release 6 [1].

Annex A (informative): Change history

| Meeting -1st- Level | Doc-1st-Level | CR | Rev | Subject | Cat | Version - Current | Version -New | Doc-2nd- Level |
|---------------------------|---------------|-----|-----|---|-----|-------------------------|-----------------|-------------------|
| TP-22 | TP-030281 | 181 | 1 | Addition of LCR GSM neighbour reporting | F | 4.9.0 | 5.0.0 | T1-031615 |
| TP-22 | TP-030281 | 182 | 1 | Addition of LCR GSM handover test | F | 4.9.0 | 5.0.0 | T1-031616 |
| TP-22 | TP-030281 | 183 | 1 | Update to LCR GSM RSSI measurement | F | 4.9.0 | 5.0.0 | T1-031617 |
| TP-22 | TP-030281 | 184 | 1 | Update to inter frequency measurements | F | 4.9.0 | 5.0.0 | T1-031618 |
| TP-22 | TP-030281 | 185 | 1 | Correction of LCR ISCP test case | F | 4.9.0 | 5.0.0 | T1-031619 |
| TP-22 | TP-030281 | 186 | 1 | Addition of TDD HSDPA section & creation Rel 5 | B | 4.9.0 | 5.0.0 | T1-031620 |
| TP-22 | TP-030281 | 187 | 1 | HSDPA HS DSCH throughput (fixed and variable) | B | 4.9.0 | 5.0.0 | T1-031621 |
| TP-22 | TP-030281 | 188 | 1 | Addition of Reporting of HS DSCH CQI | B | 4.9.0 | 5.0.0 | T1-031622 |
| TP-22 | TP-030281 | 189 | 1 | Addition of HS-SCCH Detection Performance | B | 4.9.0 | 5.0.0 | T1-031623 |
| RP-29 | RP-050514 | 190 | - | CR to 34.122 Rel-5: Correction to Cell Re-selection in CELL_FACH for 1.28Mcps TDD | F | 5.0.0 | 5.1.0 | R5-051217 |
| RP-29 | RP-050514 | 191 | - | CR to 34.122 Rel-5: Correction to Cell Re-selection in idle for 1.28Mcps TDD | F | 5.0.0 | 5.1.0 | R5-051218 |
| RP-29 | RP-050514 | 192 | - | CR to 34.122 Rel-5: Correction to UE Measurements Procedures for 1.28Mcps TDD | F | 5.0.0 | 5.1.0 | R5-051219 |
| RP-29 | RP-050514 | 193 | - | CR to 34.122 Rel-5: Correction to UE Measurements Performance Requirements for 1.28Mcps TDD | F | 5.0.0 | 5.1.0 | R5-051220 |
| RP-30 | RP-050777 | 194 | - | Adding terminal Baseline and Service Implementation Capabilities of 1.28Mcps TDD | F | 5.1.0 | 5.2.0 | R5-051886 |
| RP-30 | RP-050777 | 195 | - | Correction to power control downlink – 1.28 Mcps TDD option | F | 5.1.0 | 5.2.0 | R5-051887 |
| RP-30 | RP-050777 | 196 | - | Correction to blocking exceptions for 1.28 Mcps TDD option | F | 5.1.0 | 5.2.0 | R5-051888 |
| RP-30 | RP-050777 | 197 | - | Name correction of logical and transport channels | F | 5.1.0 | 5.2.0 | R5-051889 |
| RP-30 | RP-050777 | 198 | - | Correction to power definitions | F | 5.1.0 | 5.2.0 | R5-051890 |
| RP-30 | RP-050777 | 199 | - | Completing 1.28Mcps TDD/FDD cell reselection in idle mode | F | 5.1.0 | 5.2.0 | R5-051891 |
| RP-30 | RP-050777 | 200 | - | Adding OCNS_Ec/Ior and correcting Ioc | F | 5.1.0 | 5.2.0 | R5-051892 |
| RP-30 | RP-050777 | 201 | - | Correction of Cell Re-selection in CELL_FACH | F | 5.1.0 | 5.2.0 | R5-051893 |
| RP-31 | RP-060163 | 202 | - | Correcting cell reselection test procedure | F | 5.2.0 | 5.3.0 | R5-060453 |
| RP-31 | RP-060146 | 203 | - | Adding statistical Testing of HSDPA Receiver Performance | F | 5.2.0 | 5.3.0 | R5-060034 |
| RP-31 | RP-060146 | 204 | - | Completing the test of reporting of HS-DSCH Channel Quality Indicator | F | 5.2.0 | 5.3.0 | R5-060033 |
| RP-31 | RP-060146 | 205 | - | Completing HS-SCCH Detection Performance test | F | 5.2.0 | 5.3.0 | R5-060032 |
| RP-31 | RP-060146 | 206 | - | Completing HS-DSCH throughput for variable reference channels | F | 5.2.0 | 5.3.0 | R5-060031 |
| RP-31 | RP-060146 | 207 | - | Completing HS-DSCH throughput for fixed reference channels | F | 5.2.0 | 5.3.0 | R5-060030 |
| RP-31 | RP-060146 | 208 | - | Adding general test conditions and declarations for HSDPA | F | 5.2.0 | 5.3.0 | R5-060029 |
| RP-32 | RP-060329 | 209 | - | Update of HCR reference channels | F | 5.3.0 | 5.4.0 | R5-061150 |
| RP-32 | RP-060328 | 210 | - | Correcting the handover delay for 1.28Mcps TDD option | F | 5.3.0 | 5.4.0 | R5-061426 |
| RP-32 | RP-060328 | 211 | - | Correcting inter RAT cell re-selection for 1.28Mcps TDD option | F | 5.3.0 | 5.4.0 | R5-061427 |
| RP-32 | RP-060336 | 212 | - | Addition of HCR HS-DSCH throughput for fixed reference channels | F | 5.3.0 | 5.4.0 | R5-061142 |
| RP-32 | RP-060336 | 213 | - | Addition of HCR HS-DSCH throughput for variable reference channels | F | 5.3.0 | 5.4.0 | R5-061143 |
| RP-32 | RP-060336 | 214 | - | Addition of HCR reporting of HS-DSCH channel quality indicator | F | 5.3.0 | 5.4.0 | R5-061144 |
| RP-32 | RP-060336 | 215 | - | Addition of HCR HSDPA reference channels | F | 5.3.0 | 5.4.0 | R5-061145 |
| RP-32 | RP-060336 | 216 | - | Addition of HCR multi-path fading environments for HSDPA performance requirements | F | 5.3.0 | 5.4.0 | R5-061146 |
| RP-32 | RP-060336 | 217 | - | Addition of statistical testing of HSDPA receiver performance for HCR to Annex F | F | 5.3.0 | 5.4.0 | R5-061147 |
| RP-33 | RP-060552 | 218 | - | Correction to Handover to GSM for 1.28Mcps TDD option | F | 5.4.0 | 5.5.0 | R5-062124 |
| RP-33 | RP-060552 | 219 | - | Correcting the RRC re-establishment delay for 1.28Mcps TDD option | F | 5.4.0 | 5.5.0 | R5-062125 |
| RP-33 | RP-060552 | 220 | - | Correcting the statistical testing of receiver BER/BLER performance | F | 5.4.0 | 5.5.0 | R5-062126 |
| RP-33 | RP-060552 | 221 | - | Correcting the statistical testing of RRM delay performance | F | 5.4.0 | 5.5.0 | R5-062128 |

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|-------|-----------|-----|---|--|---|-------|-------|--------------|
| RP-33 | RP-060549 | 222 | - | Clarification of Tx spurious emission level from 3.84 Mcps TDD UE into PHS band. | F | 5.4.0 | 5.5.0 | R5-062267_r1 |
| RP-34 | RP-060732 | 223 | - | Adding test case of GSM measurement of without BSIC verification required | F | 5.5.0 | 5.6.0 | R5-063106 |
| RP-34 | RP-060732 | 224 | - | Correction to GSM measurement for 1.28Mcps TDD option | F | 5.5.0 | 5.6.0 | R5-063154 |
| RP-34 | RP-060747 | 225 | - | HS-SCCH detection test for HCR TDD | F | 5.5.0 | 5.6.0 | R5-063218 |
| RP-35 | RP-070104 | 228 | | Correcting the inter frequency measurement for 1.28Mcps TDD option | F | 5.6.0 | 5.7.0 | R5-070119 |
| RP-35 | RP-070104 | 229 | | Correcting the intra frequency measurement test case for 1.28Mcps TDD option | F | 5.6.0 | 5.7.0 | R5-070120 |
| RP-35 | RP-070104 | 230 | | Correcting the test case of open loop power control for 1.28Mcps TDD option | F | 5.6.0 | 5.7.0 | R5-070121 |
| RP-35 | RP-070104 | 231 | | Adding the test criteria in RRM test cases for 1.28Mcps TDD option | F | 5.6.0 | 5.7.0 | R5-070122 |
| RP-35 | RP-070104 | 232 | | Adding test case of Timing Advance for 1.28Mcps TDD option | F | 5.6.0 | 5.7.0 | R5-070123 |
| RP-35 | RP-070105 | 227 | | 34.122 v5.7.0 pointer to Release 6 version | F | 5.6.0 | 5.7.0 | R5-070076 |

History

| Document history | | |
|-------------------------|---------------|-------------|
| V5.0.0 | December 2003 | Publication |
| V5.1.0 | October 2005 | Publication |
| V5.2.0 | December 2005 | Publication |
| V5.3.0 | March 2006 | Publication |
| V5.4.0 | June 2006 | Publication |
| V5.5.0 | October 2006 | Publication |
| V5.6.0 | December 2006 | Publication |
| V5.7.0 | March 2007 | Publication |