



**Universal Mobile Telecommunications System (UMTS);
LTE;
Universal Terrestrial Radio Access (UTRA)
and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC);
User Equipment (UE) conformance specification
for UE positioning;
Part 1: Conformance test specification
(3GPP TS 37.571-1 version 11.3.0 Release 11)**



Reference

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Foreword

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 - 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 part 1 of a multi-parts TS:

3GPP TS 37. 571-1: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification.

3GPP TS 37.571-2: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance.

3GPP TS 37.571-3: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS).

3GPP TS 37.571-4: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites.

3GPP TS 37. 571-5: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data.

1 Scope

The present document specifies the procedures for the conformance test of the measurement requirements for FDD mode of UTRA and FDD or TDD mode of E-UTRA for the User Equipment (UE) that supports one or more of the defined positioning methods. These positioning methods are for UTRA: Assisted Global Positioning System (A-GPS), Assisted Global Navigation Satellite Systems (A-GNSS) and for E-UTRA: Assisted Global Navigation Satellite System (A-GNSS), Observed Time Difference of Arrival (OTDOA), Enhanced Cell ID (ECID).

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 "Test applicability " part of the test.

The Implementation Conformance Statement (ICS) pro-forma could be found in the 3rd part of the present document.

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 [35] (void)

[36] 3GPP TS 37.571-1 Release 12: "Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification"

3 Definitions, symbols and abbreviations

Void

4 General test conditions

The requirements of the present document are provided in 3GPP TS 37.571-1 Release 12 [36].

5 to 10 Void

Annex A to G: Void

Annex H (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment TS 36.571-1	Old	New
2010-08	RAN5#48	R5-104316			Initial draft TS 36.571-1 created		0.0.0
2010-11	RAN5#49	R5-106613			V1.0.0 created for presentation to RAN Plenary	0.0.0	1.0.0
2011-02	RAN5#50	R5-110124			Various values and corrections added	1.0.0	1.1.0
2011-08	RAN5#52	R5-113133			Text changes from R5-112139, R5-112386, R5-112837, R5-112838, R5-112839 added	1.1.0	1.2.0
2011-08	RAN5#53				Text changes from R5-113135, R5-113150, R5-114066, R5-113587 added	1.2.0	-
2011-11	RAN5#53	R5-115206			Initial draft TS 37.571-1 created from TS 36.571-1, TS 34.171 and TS 34.172	-	1.0.0
2011-11	RAN5#53	R5-115207			V2.0.0 created for presentation to RAN Plenary with additions from R5-115246, R5-115247, R5-115248, R5-115809	1.0.0	2.0.0
2011-12	RAN#54	-	-	-	Moved to Rel-9 with editorial changes only	2.0.0	9.0.0
2012-03	RAN#55	R5-120087	0001	-	Modify OTDOA connection diagrams	9.0.0	9.1.0
2012-03	RAN#55	R5-120089	0002	-	OTDOA parameter corrections	9.0.0	9.1.0
2012-03	RAN#55	R5-120414	0003	-	Adding ECID test cases to Annexes in TS37.571-1	9.0.0	9.1.0
2012-03	RAN#55	R5-120822	0004	-	Correct A-GNSS signalling	9.0.0	9.1.0
2012-03	RAN#55	R5-120823	0005	-	ECID procedure modifications	9.0.0	9.1.0
2012-03	RAN#55	R5-120893	0006	-	OTDOA procedure updates	9.0.0	9.1.0
2012-06	RAN#56	R5-121126	0007	-	Update to Figure 9.1.1.3-1	9.1.0	9.2.0
2012-06	RAN#56	R5-121127	0008	-	Clarification to notes in tests 9.1.3 & 9.1.4	9.1.0	9.2.0
2012-06	RAN#56	R5-121128	0009	-	Clarifications to frequencies and bandwidths to be used	9.1.0	9.2.0
2012-06	RAN#56	R5-121129	0010	-	Setting responseTime in ECID test cases	9.1.0	9.2.0
2012-06	RAN#56	R5-121130	0011	-	Modifications to signalling used in OTDOA test cases	9.1.0	9.2.0
2012-06	RAN#56	R5-121908	0012	-	Adding operating band 26 to TS 37.571-1	9.1.0	9.2.0
2012-06	RAN#56	-	-	-	Added missing contents from R5-121126, R5-121127, R5-121128	9.2.0	9.2.1
2012-06	RAN#56	-	-	-	Upgraded to v10.0.0 with no change.	9.2.1	10.0.0
2012-09	RAN#57	R5-123066	0013	-	Correction to RSTD Measurement Accuracy Tests 9.1.3 and 9.1.4	10.0.0	10.1.0
2012-09	RAN#57	R5-123913	0014	-	Addition of RRM Test Case 9.8.4 TDD inter-frequency RSTD Accuracy	10.0.0	10.1.0
2012-12	RAN#58	R5-125136	0015	-	Corrections to references	10.1.0	10.2.0
2012-12	RAN#58	R5-125188	0016	-	Correction to LPP Message Content for GNSS Moving Scenario Test	10.1.0	10.2.0
2012-12	RAN#58	R5-125806	0018	-	New test case 10.1 FDD RSTD Measurement Reporting Delay for Carrier Aggregation	10.1.0	10.2.0
2012-12	RAN#58	R5-125807	0019	-	New test case 10.2 TDD RSTD Measurement Reporting Delay for Carrier Aggregation	10.1.0	10.2.0
2012-12	RAN#58	R5-125808	0020	-	New test case 10.3 FDD RSTD Measurement Accuracy for Carrier Aggregation	10.1.0	10.2.0
2012-12	RAN#58	R5-125809	0021	-	New test case 10.4 TDD RSTD Measurement Accuracy for Carrier Aggregation	10.1.0	10.2.0
2012-12	RAN#58	R5-125831	0022	-	Adding bands 28 and 44 to TS 37.571-1	10.1.0	10.2.0
2012-12	RAN#58	R5-125847	0023	-	Corrections to procedures for RSTD tests	10.1.0	10.2.0
2012-12	RAN#58	R5-125848	0024	-	Correction of OCNG Patterns for UE Rx - Tx Time Difference Test Cases	10.1.0	10.2.0
2012-12	RAN#58	R5-125916	0025	-	Add editor's note for value of Iprs for test case 9.1.4	10.1.0	10.2.0
2012-12	RAN#58	R5-124120	0026	-	New common text for test cases 10.1 - 10.4 for RSTD for Carrier Aggregation	10.1.0	10.2.0
2013-03	RAN#59	R5-130959	0027	-	LBS Perf: Corrections to TCs 8.1.1 and 8.1.2	10.2.0	10.3.0
2013-06	RAN#60	R5-131097	0028	-	Removal of Note 1 from OTDOA parameter tables	10.3.0	10.4.0
2013-06	RAN#60	R5-131176	0029	-	Clarification to RSTD Delay Test procedures	10.3.0	10.4.0
2013-06	RAN#60	R5-131943	0030	-	New Test Case for FDD-FDD inter-frequency RSTD Accuracy	10.3.0	10.4.0
2013-06	RAN#60	R5-131944	0031	-	New Test Case for FDD-FDD inter-frequency RSTD measurement reporting delay	10.3.0	10.4.0
2013-06	RAN#60	R5-131945	0032	-	OTDOA test case alignment with RAN 4	10.3.0	10.4.0
2013-06	RAN#60	R5-131946	0033	-	Corrections to ECID and OTDOA tests Note: same contents as R5-131945 was submitted by accident.	10.3.0	10.4.0
2013-06	RAN#60	R5-131947	0034	-	RSTD test parameter updates	10.3.0	10.4.0
2013-06	RAN#60	R5-131993	0035	-	Test Description for TDD inter-frequency accuracy test case	10.3.0	10.4.0
2013-06	RAN#60	R5-131994	0036	-	New test case for TDD inter-frequency RSTD reporting delay 9.2.2	10.3.0	10.4.0
2013-09	RAN#61	R5-133173	0037	-	Tidy up of Table 9.2.1.4.1-1	10.4.0	10.5.0

2013-09	RAN#61	R5-133174	0038	-	Corrections to ECID and OTDOA tests	10.4.0	10.5.0
2013-09	RAN#61	R5-133375	0039	-	Uncertainties and Test Tolerances for RSTD test cases 9.1.1 and 9.1.2	10.4.0	10.5.0
2013-09	RAN#61	R5-133378	0040	-	Uncertainties and Test Tolerances for RSTD test cases 9.1.3 and 9.1.4	10.4.0	10.5.0
2013-09	RAN#61	R5-133848	0041	-	LBS Perf: Uncertainties and test tolerances for TCs 8.1.1 and 8.1.2	10.4.0	10.5.0
2013-09	RAN#61	R5-133885	0042	-	LBS Perf: Revision of test procedure for TC-s 8.1.1-2	10.4.0	10.5.0
2013-12	RAN#62	R5-134200	0043	-	Updates to ECID and RSTD tests following RAN 4 updates	10.5.0	10.6.0
2013-12	RAN#62	R5-134202	0044	-	Addition of Capability exchange in ECID and RSTD tests	10.5.0	10.6.0
2013-12	RAN#62	R5-134205	0045	-	Addition of Applicabilities for 9.2.1 - 9.2.5	10.5.0	10.6.0
2013-12	RAN#62	R5-134849	0046	-	Addition of missing acknowledgements in ECID tests	10.5.0	10.6.0
2013-12	RAN#62	R5-134850	0047	-	Corrections to references for OCNG and RMC	10.5.0	10.6.0
2013-12	RAN#62	R5-134899	0048	-	Introduction 8.1.3 E-UTRAN FDD UE Rx-Tx time difference (feICIC)	10.5.0	10.6.0
2013-12	RAN#62	R5-134970	0049	-	Introduction 8.1.4 E-UTRAN TDD UE Rx-Tx time difference (feICIC)	10.5.0	10.6.0
2013-12	RAN#62	R5-134979	0050	-	Addition of new tests 10.1a, 10.2a, 10.3a and 10.4a for 20MHz CA	10.5.0	10.6.0
2013-12	RAN#62	R5-134980	0051	-	LBS Perf: Corrections to RSTD reporting tests	10.5.0	10.6.0
2013-12	RAN#62	R5-135016	0052	-	Uncertainties and Test Tolerances for RSTD test cases 9.2.1 and 9.2.2	10.5.0	10.6.0
2013-12	RAN#62	R5-135018	0053	-	Uncertainties and Test Tolerances for RSTD test cases 9.2.4 and 9.2.5	10.5.0	10.6.0
2014-03	RAN#63	R5-140107	0054	-	Corrections to PRS_RA in RSTD tests	10.6.0	10.7.0
2014-03	RAN#63	R5-140278	0055	-	Addition of E-UTRA band groups	10.6.0	10.7.0
2014-03	RAN#63	R5-140308	0056	-	LBS RF: Aperiodic CQI configuration for 1.4 MHz bandwidth subtests	10.6.0	10.7.0
2014-03	RAN#63	R5-141033	0057	-	RSTD test case updates	10.6.0	10.7.0
2014-03	RAN#63	R5-140875	0058	-	Additions to TC 8.1.6 E-UTRAN TDD UE Rx-Tx time difference (feICIC)	10.7.0	11.0.0
2014-03	RAN#63	R5-141010	0059	-	Additions to TC 8.1.5 E-UTRAN FDD UE Rx-Tx time difference (feICIC)	10.7.0	11.0.0
2014-06	RAN#64	R5-142098	0060	-	Corrections for OCNG patterns defined in RSTD Tables	11.0.0	11.1.0
2014-06	RAN#64	R5-142211	0061	-	Additions to feICIC UE Rx-Tx test cases in Annex C	11.0.0	11.1.0
2014-06	RAN#64	R5-142302	0062	-	LBS RF: Aperiodic CQI configuration for 1.4 MHz bandwidth tests	11.0.0	11.1.0
2014-06	RAN#64	R5-143109	0063	-	Additions to TC 8.1.6 E-UTRAN TDD UE Rx-Tx time difference (feICIC)	11.0.0	11.1.0
2014-06	RAN#64	R5-143111	0064	-	Additions to FDD interruption requirements for SCell	11.0.0	11.1.0
2014-06	RAN#64	R5-143180	0065	-	Additions to TC 8.1.5 E-UTRAN FDD UE Rx-Tx time difference (feICIC)	11.0.0	11.1.0
2014-06	RAN#64	R5-143211	0066	-	LBS RF: Update of RSTD tests	11.0.0	11.1.0
2014-09	RAN#65	R5-144080	0068	-	Corrections to RSTD Measurement Reporting Delay for Carrier Aggregation tests	11.1.0	11.2.0
2014-09	RAN#65	R5-144125	0069	-	Corrections to Physical Cell Id (PCI) Configuration Conditions in UE Rx-Tx time difference feICIC	11.1.0	11.2.0
2014-09	RAN#65	R5-144193	0072	-	Cell-specific test parameters for E-UTRAN	11.1.0	11.2.0
2014-09	RAN#65	R5-144215	0081	-	Clarification to RSTD Reporting Delay tests	11.1.0	11.2.0
2014-09	RAN#65	R5-144409	0083	-	Update to initial conditions and measurement procedure in for UTRA A-GPS and A-GNSS tests	11.1.0	11.2.0
2014-09	RAN#65	R5-144553	0084	-	Removal of editors note in TC 9.1.4	11.1.0	11.2.0
2014-09	RAN#65	R5-144620	0085	-	Updates OTDOA Neighbour Cell Info List	11.1.0	11.2.0
2014-09	RAN#65	R5-144763	0086	-	Correction for RSTD Measurement Accuracy in CA requirements in RRM	11.1.0	11.2.0
2014-09	RAN#65	R5-144789	0070	-	Uncertainties and Test Tolerances for RSTD test cases 10.1, 10.1A, 10.2 and 10.2A	11.1.0	11.2.0
2014-09	RAN#65	R5-144790	0071	-	Uncertainties and Test Tolerances for RSTD test cases 10.3, 10.3A, 10.4 and 10.4A	11.1.0	11.2.0
2014-09	RAN#65	R5-144791	0082	-	Updates to Annex E of TS 37.571-1	11.1.0	11.2.0
2014-09	RAN#65	R5-144792	0087	-	RSTD tests RAN 4 alignment	11.1.0	11.2.0
2014-09	RAN#65	R5-144865	0088	-	Editor's note to PRS levels with fading	11.1.0	11.2.0
2014-09	RAN#65	R5-144870	0089	-	Corrections to Note 3 for RSTD CA tests	11.1.0	11.2.0
2014-09	RAN#65	R5-144914	0090	-	Corrections to TDD RSTD Measurement Reporting Delay for Carrier Aggregation	11.1.0	11.2.0
2014-09	RAN#65	R5-144915	0091	-	RSTD CA Measurement Accuracy connection diagrams	11.1.0	11.2.0
2015-12	RAN#70	R5-155042	0148	-	Removal of technical content in 37.571-1 v11.2.0 and substitution with pointer to the next Release	11.2.0	11.3.0

History

Document history		
V11.0.0	March 2014	Publication
V11.1.0	July 2014	Publication
V11.2.0	October 2014	Publication
V11.3.0	January 2016	Publication