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Technical Specification

3rd Generation Partnership Project;

Technical Specification Group Radio Access Network;

User Equipment (UE) conformance specification for UE positioning;

Part 1: Conformance test specification

(Release 16)



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# Foreword

This Technical Specification 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 part 1 of a multi-parts TS:

- 3GPP TS 37.571-1: User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification.

- 3GPP TS 37.571-2: User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance.

- 3GPP TS 37.571-3: User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS).

- 3GPP TS 37.571-4: User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites.

- 3GPP TS 37.571-5: 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 or TDD mode of UTRA and FDD or TDD mode of E-UTRA, NB-IOT and NR 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),

- for E-UTRA: Assisted Global Navigation Satellite System (A-GNSS), Observed Time Difference of Arrival (OTDOA), Enhanced Cell ID (ECID), Metropolitan Beacon System (MBS), Wireless Local Area Network (WLAN), Bluetooth Low Energy (BLE),

- for NB-IOT: Observed Time Difference of Arrival (OTDOA), [others FFS], and

- for NR: Assisted Global Navigation Satellite System (A-GNSS), Observed Time Difference of Arrival (OTDOA), Enhanced Cell ID (ECID), Metropolitan Beacon System (MBS), Wireless Local Area Network (WLAN), Bluetooth Low Energy (BLE).

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 unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).

[1] to [57] (void)

[58] 3GPP TR 37.571-1 Release 17: "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 TR 37.571-1 Release 17 [58].

# 5 to 16 Void

Annex A to I: Void

Annex J (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 TS 37.571-1 | 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 |
| 2014-09 | RAN#65 | R5-144203 | 0073 | - | Addition of new TC 10.1B FDD RSTD Measurement Reporting Delay CA for 5+5MHz | 11.2.0 | 12.0.0 |
| 2014-09 | RAN#65 | R5-144204 | 0074 | - | Addition of new TC 10.1C FDD RSTD Measurement Reporting Delay CA for 10+5MHz | 11.2.0 | 12.0.0 |
| 2014-09 | RAN#65 | R5-144205 | 0075 | - | Addition of new TC 10.2B TDD RSTD Measurement Reporting Delay CA for 5+5MHz | 11.2.0 | 12.0.0 |
| 2014-09 | RAN#65 | R5-144206 | 0076 | - | Addition of new TC 10.2C TDD RSTD Measurement Reporting Delay CA for 10+5MHz | 11.2.0 | 12.0.0 |
| 2014-09 | RAN#65 | R5-144207 | 0077 | - | Addition of new TC 10.3B FDD RSTD Measurement Accuracy CA for 5+5MHz | 11.2.0 | 12.0.0 |
| 2014-09 | RAN#65 | R5-144208 | 0078 | - | Addition of new TC 10.3C FDD RSTD Measurement Accuracy CA for 10+5MHz | 11.2.0 | 12.0.0 |
| 2014-09 | RAN#65 | R5-144209 | 0079 | - | Addition of new TC 10.4B TDD RSTD Measurement Accuracy CA for 5+5MHz | 11.2.0 | 12.0.0 |
| 2014-09 | RAN#65 | R5-144210 | 0080 | - | Addition of new TC 10.4C TDD RSTD Measurement Accuracy CA for 10+5MHz | 11.2.0 | 12.0.0 |
| 2014-12 | RAN#66 | R5-145133 | 0092 | - | Update Galileo ICD reference | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145211 | 0093 | - | Io value incorrectly calculated | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145212 | 0094 | - | Editorial Note clarification | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145213 | 0095 | - | Alignment of Es/Nos value | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145214 | 0096 | - | Duplicated Io values listed in RSTD tables | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145215 | 0097 | - | Correction to References in Specification | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145254 | 0098 | - | LBS Perf: Corrections to measurement gap configuration | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145490 | 0099 | - | Test Tolerances for TC 8.1.5 E-UTRAN FDD UE Rx-Tx time difference (feICIC) | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145491 | 0100 | - | Test Tolerances for TC 8.1.6 E-UTRAN TDD UE Rx-Tx time difference (feICIC) | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145492 | 0101 | - | Uncertainties and Test Tolerances to Annex C for feICIC UE Rx-Tx test cases | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145502 | 0102 | - | Correction to periodicity of ABS pattern in UE RX-TX time difference for feICIC | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145503 | 0103 | - | Introduction of BDS testing in Annex C of 37.571 | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145510 | 0104 | - | Correction to Annex E notes and tables | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145836 | 0105 | - | Changes to RSTD tests to align with RAN 4 | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145843 | 0106 | - | Introduction of feICIC applicability statement for UE Rx-TX Time Difference test cases | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145864 | 0107 | - | Introduction of content for BDS and UTRA TDD UE in section 1-3 of TS 37.571-1 | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145865 | 0108 | - | Introduction of content for BDS in section 4 in TS 37.571-1 | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145870 | 0109 | - | Corrections to measurement procedures for UTRA A-GPS and A-GNSS tests | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145871 | 0110 | - | Correction to UE Rx-Tx Time difference tests | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145920 | 0111 | - | Introduction of test cases for BDS and UTRA TDD UE in section 6 of TS 37.571-1 | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145930 | 0112 | - | Introduction of test cases for BDS in section 7 of TS 37.571-1 | 12.0.0 | 12.1.0 |
| 2015-03 | RAN#67 | R5-150051 | 0113 | - | Updates to RSTD values and terminology following changes in RAN 4 | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150074 | 0114 | - | Remove incorrect note from CA RSTD accuracy tests | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150082 | 0115 | - | Uncertainties and Test Tolerances for RSTD test cases 10.1, 10.1A, 10.1B, 10.1C, 10.2, 10.2A, 10.2B, and 10.2C | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150085 | 0116 | - | Uncertainties and Test Tolerances for RSTD test cases 10.3B, 10.3C, 10.4B, and 10.4C | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150107 | 0117 | - | Corrections to table headings in CA RSTD tests | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150378 | 0118 | - | Very minor corrections to references for feICIC test cases, 8.1.5 and 8.1.6 | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150609 | 0119 | - | Abbreviation Corrections for BDS in 37.571-1 | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150833 | 0120 | - | Addition of BDS ICD reference | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150834 | 0121 | - | Corrections to BDS Test Requirements for Minimum Performance tests | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150835 | 0122 | - | The lo Unit Parameter is Incorrect | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150836 | 0123 | - | Inconsistent Text Referenced | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150837 | 0124 | - | Missing Abbreviations in Specification | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150888 | 0125 | - | New TC: TDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz+10MHz bandwidth | 12.1.0 | 12.2.0 |
| 2015-03 | RAN#67 | R5-150911 | 0126 | - | New TC: TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 20MHz +10MHz Bandwidth | 12.1.0 | 12.2.0 |
| 2015-06 | RAN#68 | R5-151070 | 0128 | - | Delete "FFS" from ECID test conditions | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151083 | 0129 | - | Uncertainties and Test Tolerances for RSTD test case 10.2D | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151085 | 0130 | - | Uncertainties and Test Tolerances for RSTD test case 10.4D | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151086 | 0131 | - | RSTD accuracy changes for Rel-12 | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151088 | 0132 | - | Formatting error in Parameter Sensitivity Coarse Tables | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151089 | 0133 | - | Incorrect Expected RSTD value in Table 9.2.5.4.1-1 | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151162 | 0135 | - | Correction of the TPR of Absolute GNSS signal level for Dynamic Range | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151331 | 0136 | - | Addition of band 32 to 37.571-1 | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151335 | 0137 | - | Corrections to message contents for feICIC TCs in 37.571-1 | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151912 | 0134 | 1 | LPP responseTime update and correction | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151913 | 0138 | 1 | Introduction of new test case 8.1.3 to 37.571-1 | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-151914 | 0139 | 1 | Introduction of new test case 8.1.4 to 37.571-1 | 12.2.0 | 12.3.0 |
| 2015-06 | RAN#68 | R5-152014 | 0127 | 1 | Add TDD to A-GNSS testing | 12.2.0 | 12.3.0 |
| 2015-09 | RAN#69 | R5-153253 | 0140 | - | CA LBS: Clarification of PHICH configuration | 12.3.0 | 12.4.0 |
| 2015-09 | RAN#69 | R5-153661 | 0144 | - | Update of Galileo OS SIS ICD reference | 12.3.0 | 12.4.0 |
| 2015-09 | RAN#69 | R5-153863 | 0143 | 1 | Update of feICIC Test cases 8.1.5 and 8.1.6 | 12.3.0 | 12.4.0 |
| 2015-09 | RAN#69 | R5-153864 | 0141 | 1 | Update of eICIC Test case 8.1.3 | 12.3.0 | 12.4.0 |
| 2015-09 | RAN#69 | R5-153865 | 0142 | 1 | Update of eICIC Test case 8.1.4 | 12.3.0 | 12.4.0 |
| 2015-09 | RAN#69 | - | - | - | update of the "non-specific references" in section 2 according to the approved R5-153582 and an action point on ETSI MCC | 12.3.0 | 12.4.0 |
| 2015-12 | RAN#70 | R5-155018 | 0145 | - | Uncertainties and Test Tolerances for RSTD Test Cases 10.3A\_1 and 10.4A\_1 | 12.4.0 | 12.5.0 |
| 2015-12 | RAN#70 | R5-155035 | 0146 | - | Incorrect Table Note referenced in LPP Request Table | 12.4.0 | 12.5.0 |
| 2015-12 | RAN#70 | R5-155063 | 0149 | - | Incorrect references in TDD test cases | 12.4.0 | 12.5.0 |
| 2015-12 | RAN#70 | R5-155064 | 0150 | - | Reference [2] has no explanation | 12.4.0 | 12.5.0 |
| 2015-12 | RAN#70 | R5-155065 | 0151 | - | Remove square brackets from RSTD tests | 12.4.0 | 12.5.0 |
| 2015-12 | RAN#70 | R5-155066 | 0152 | - | Incorrect Section number referenced | 12.4.0 | 12.5.0 |
| 2015-12 | RAN#70 | R5-155081 | 0153 | - | Editorial changes to correct Section and Table references | 12.4.0 | 12.5.0 |
| 2015-12 | RAN#70 | R5-155875 | 0154 | 1 | Two new 3 DL CA RSTD Measurement Reporting Delay test cases | 12.4.0 | 12.5.0 |
| 2015-12 | RAN#70 | R5-156111 | 0155 | 1 | Two new 3 DL CA RSTD Measurement Accuracy test cases | 12.4.0 | 12.5.0 |
| 2016-03 | RAN#71 | R5-160041 | 0156 | - | Correction to Cells in OTDOA 3DL RSTD Measurement | 12.5.0 | 12.6.0 |
| 2016-03 | RAN#71 | R5-160900 | 0164 | - | Add Cell values in RSTD Table for 3DL RSTD | 12.5.0 | 12.6.0 |
| 2016-03 | RAN#71 | R5-160909 | 0157 | 1 | Correction of Cell Time offset in RSTD CA | 12.5.0 | 12.6.0 |
| 2016-03 | RAN#71 | R5-161016 | 0161 | 1 | Add Cell values in OTDOA table for 3DL RSTD Measurement Reporting Delay | 12.5.0 | 12.6.0 |
| 2016-03 | RAN#71 | R5-161053 | 0158 | 1 | Correction to Trstd values in 3DL RSTD Measurement Accuracy test cases | 12.5.0 | 12.6.0 |
| 2016-03 | RAN#71 | R5-161054 | 0160 | 1 | Addition of antenna diagram Figure for 3DL CA test cases | 12.5.0 | 12.6.0 |
| 2016-06 | RAN#72 | R5-162114 | 0165 | - | Uncertainties and Test Tolerances for RSTD Test Cases 10.5 and 10.6 | 12.6.0 | 12.7.0 |
| 2016-06 | RAN#72 | R5-162116 | 0166 | - | Uncertainties and Test Tolerances for RSTD Test Cases 10.7 and 10.8 | 12.6.0 | 12.7.0 |
| 2016-06 | RAN#72 | R5-163116 | 0167 | 1 | Uncertainties and Test tolerances for TS 37.571-1 Test cases 8.1.3 and 8.1.4 | 12.6.0 | 12.7.0 |
| 2016-06 | RAN#72 | R5-162970 | 0168 | 1 | Add missing LTE FDD TDD bands to E-UTRA Band Groups | 12.7.0 | 13.0.0 |
| 2016-06 | RAN#72 | R5-162971 | 0169 | 1 | Add missing LTE FDD band to Annex E | 12.7.0 | 13.0.0 |
| 2016-09 | RAN#73 | R5-165350 | 0179 | - | Incorrect FDD Band reference noted for Band 32 | 13.0.0 | 13.1.0 |
| 2016-09 | RAN#73 | R5-165360 | 0181 | - | Correct editorial changes in Annex C of 37.571-1 | 13.0.0 | 13.1.0 |
| 2016-09 | RAN#73 | R5-166125 | 0173 | 1 | Updates to the UE Rx – Tx Time Difference tests for Rel-12 onwards | 13.0.0 | 13.1.0 |
| 2016-09 | RAN#73 | R5-166126 | 0178 | 1 | Add missing references to GPS and Galileo and A-GPS and A-Galileo | 13.0.0 | 13.1.0 |
| 2016-09 | RAN#73 | R5-166127 | 0180 | 1 | Add Derivation of Test Requirements for test cases 8.1.5 and 8.1.6 | 13.0.0 | 13.1.0 |
| 2016-09 | RAN#73 | R5-166168 | 0182 | 1 | Addition of performance test specification for Indoor Positioning Enhancements (MBS) | 13.0.0 | 13.1.0 |
| 2016-09 | RAN#73 | R5-166179 | 0171 | 1 | Addition of editor’s notes for TDD UE Rx-TX tests | 13.0.0 | 13.1.0 |
| 2016-09 | RAN#73 | R5-166181 | 0174 | 1 | Unification of Channel BW testing requirements for OTDOA 3 DL CA test cases | 13.0.0 | 13.1.0 |
| 2016-09 | RAN#73 | R5-166283 | 0183 | - | Change of Reference Channel for 1.4 MHz RSTD tests | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-168060 | 0185 | - | Change references to Reference Channel for RSTD tests | 13.1.0 | 13.2.0 |
| 2016-12 | RAN#74 | R5-168063 | 0186 | - | Change of applicability of UE Rx-Tx tests for TDD | 13.1.0 | 13.2.0 |
| 2016-12 | RAN#74 | R5-168147 | 0187 | - | Corrections for errors in 37.571-1 | 13.1.0 | 13.2.0 |
| 2016-12 | RAN#74 | R5-169602 | 0184 | 1 | Addition of test tolerances to the performance test specification for Indoor Positioning Enhancements (MBS) | 13.1.0 | 13.2.0 |
| 2016-12 | RAN#74 | R5-169611 | 0190 | 1 | Clarification of MBS beacon code phase delay | 13.1.0 | 13.2.0 |
| 2016-12 | RAN#74 | R5-169663 | 0188 | 1 | Editorial correction on OTDOA TC10.6 | 13.1.0 | 13.2.0 |
| 2016-12 | RAN#74 | R5-168396 | 0189 | - | Band 70 addition to band groups in 37.571-1 | 13.2.0 | 14.0.0 |
| 2017-01 | RAN#74 | - | - | - | correction of floating point of R5-169602 in Table 11.4.5-3 | 14.0.0 | 14.0.1 |
| 2017-03 | RAN#75 | R5-171304 | 0195 | - | Removal of square brackets in the performance test specification for Indoor Positioning Enhancements (MBS) | 14.0.1 | 14.1.0 |
| 2017-03 | RAN#75 | R5-171902 | 0191 | 1 | Update TS 37.571-1 with Addition of LTE Band 48 | 14.0.1 | 14.1.0 |
| 2017-03 | RAN#75 | R5-171904 | 0192 | 1 | Clarification on DRX for Single Mode OTDOA Measurement Reporting Delay Test Cases | 14.0.1 | 14.1.0 |
| 2017-03 | RAN#75 | R5-171905 | 0193 | 1 | Clarification on DRX for 2CC OTDOA Measurement Reporting Delay Test Cases | 14.0.1 | 14.1.0 |
| 2017-03 | RAN#75 | R5-171906 | 0194 | 1 | Clarification on DRX for 3CC OTDOA Measurement Reporting Delay Test Cases | 14.0.1 | 14.1.0 |
| 2017-06 | RAN#76 | R5-172179 | 0197 | - | Add Minimum Performance Sub-tests for 3 GNSS | 14.1.0 | 14.2.0 |
| 2017-06 | RAN#76 | R5-172623 | 0198 | - | Introduction of periodical reporting capability for GNSS | 14.1.0 | 14.2.0 |
| 2017-06 | RAN#76 | R5-173364 | 0200 | 1 | Introduction of MBS Assistance Data Measurement Test Cases | 14.1.0 | 14.2.0 |
| 2017-06 | RAN#76 | R5-173414 | 0201 | 1 | Addition of ACKs in step 5 of test procedures | 14.1.0 | 14.2.0 |
| 2017-09 | RAN#77 | R5-173569 | 0202 | - | Correction of PRS Subframe Offset for TC 10.5 and 10.6 | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-173570 | 0203 | - | Correction of SRS-Bandwidth for ECID TC 8.1.3 and 8.1.4 | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-173571 | 0204 | - | Correction of SRS-Bandwidth for ECID TC 8.1.5 and 8.1.6 | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-173572 | 0205 | - | Correction of message contents for ECID (Editorial Change) | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-173576 | 0209 | - | WLAN and BLE Annex D updates (Editorial Change) | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-173863 | 0214 | - | Editorial change to clarify the MBS test cases applicability | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-174053 | 0215 | - | Update Statement Concerning Test System Uncertainties for Operating Bands Above 3 GHz | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-175116 | 0206 | 1 | New Abbreviations and References for WLAN and BLE (Editorial Change) | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-175117 | 0207 | 1 | WLAN test conditions | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-175118 | 0208 | 1 | WLAN and BLE Connection Diagrams | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-175119 | 0212 | 1 | BLE test conditions | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-175186 | 0210 | 1 | New WLAN AP Identification in Nominal Accuracy Test | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-175187 | 0211 | 1 | New WLAN AP Identification in Dynamic Range Test | 14.2.0 | 14.3.0 |
| 2017-09 | RAN#77 | R5-175188 | 0213 | 1 | New BLE Reporting Test | 14.2.0 | 14.3.0 |
| 2017-12 | RAN#78 | R5-176110 | 0219 | - | Add 4Rx support for OTDOA/ECID tests – Tests | 14.3.0 | 14.4.0 |
| 2017-12 | RAN#78 | R5-176111 | 0220 | - | Add 4Rx support for OTDOA/ECID tests – Connection Diagrams | 14.3.0 | 14.4.0 |
| 2017-12 | RAN#78 | R5-177118 | 0222 | 1 | Adapt LTE A-GNSS test cases for BL/CE devices | 14.3.0 | 14.4.0 |
| 2017-12 | RAN#78 | R5-177411 | 0216 | 1 | Complete WLAN and BLE test cases | 14.3.0 | 14.4.0 |
| 2017-12 | RAN#78 | R5-177413 | 0217 | 1 | Editorial - Alignment of 2CC 5MHz OTDOA Nprs with core spec | 14.3.0 | 14.4.0 |
| 2017-12 | RAN#78 | R5-177414 | 0218 | 1 | Add 4Rx support for OTDOA/ECID tests – Common Sections | 14.3.0 | 14.4.0 |
| 2017-12 | RAN#78 | R5-177415 | 0221 | 1 | Add release information for sub-tests of test case 7.5. | 14.3.0 | 14.4.0 |
| 2017-12 | RAN#78 | R5-176791 | 0223 | - | Band 72 addition to band groups in 37.571-1 | 14.4.0 | 15.0.0 |
| 2017-12 | RAN#78 | R5-176816 | 0224 | - | Band 71 addition to band groups in 37.571-1 | 14.4.0 | 15.0.0 |
| 2018-03 | RAN#79 | R5-180295 | 0228 | - | New OTDOA Cat1bis TC 9.1.3A and 9.1.4A | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180296 | 0229 | - | New OTDOA Cat1bis TC 9.2.4A and 9.2.5A | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180297 | 0230 | - | Annex C OTDOA Cat1bis tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180298 | 0231 | - | UE Category M1/M2 General Sections for OTDOA | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180299 | 0232 | - | New OTDOA Cat M1/M2 reporting delay normal mode tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180300 | 0233 | - | New OTDOA Cat M1/M2 reporting delay enhanced mode tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180301 | 0234 | - | New OTDOA Cat M1/M2 reporting accuracy normal mode tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180303 | 0236 | - | New OTDOA Cat M1/M2 inter-freq reporting delay normal mode tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180304 | 0237 | - | New OTDOA Cat M1/M2 inter-freq reporting delay enhanced mode tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180307 | 0240 | - | New ECID Cat M1/M2 tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180308 | 0241 | - | Annex C OTDOA and ECID Cat M1/M2 | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180311 | 0244 | - | NB-IOT Annex E | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180325 | 0245 | - | Band 68 addition to band groups in 37.571-1 | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180352 | 0246 | - | [Editorial] Correct normative reference for minimum conformance requirements | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180583 | 0247 | - | feMTC Annex E | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180584 | 0248 | - | 4Rx support for OTDOA 2CC | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180585 | 0249 | - | 4Rx support for OTDOA 3CC | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181360 | 0250 | 2 | WLAN core specification updates | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181584 | 0235 | 1 | New OTDOA Cat M1/M2 reporting accuracy enhanced mode tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181585 | 0238 | 1 | New OTDOA Cat M1/M2 inter-freq reporting accuracy normal mode tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181586 | 0239 | 1 | New OTDOA Cat M1/M2 inter-freq reporting accuracy enhanced mode tests | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181599 | 0226 | 1 | New OTDOA Cat1bis TC 9.1.1A and 9.1.2A | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181600 | 0227 | 1 | New OTDOA Cat1bis TC 9.2.1A and 9.2.2A | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181605 | 0242 | 1 | NB-IOT General Sections | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181606 | 0243 | 1 | NB-IOT OTDOA Test Cases | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181613 | 0251 | 1 | Addition of the Band 74 information into TS 37.571-1 | 15.0.0 | 15.1.0 |
| 2018-06 | RAN#80 | R5-182218 | 0256 | - | Common clauses updates for new NB-IOT OTDOA tests | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-182219 | 0257 | - | Annex C updates for NB-IOT OTDOA | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-182279 | 0258 | - | New ECID Cat1bis tests | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-182280 | 0259 | - | New ECID Cat1bis tests - Annexes | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-182382 | 0261 | - | Corrections to WLAN dynamic range test case | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-182384 | 0263 | - | Corrections to maximum response time for WLAN test cases | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-183252 | 0252 | 1 | Completion of OTDOA NB-IOT TC 9.5.1 and 9.5.2 | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-183253 | 0253 | 1 | Completion of OTDOA NB-IOT TC 9.6.1 and 9.6.2 | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-183261 | 0264 | 1 | Clarifications for RSSI reporting in WLAN and BLE test cases | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-183844 | 0254 | 1 | New OTDOA NB-IOT TC 9.5.3 | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-183845 | 0255 | 1 | New OTDOA NB-IOT TC 9.6.3 | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-183847 | 0260 | 1 | Removing editor note from A-GNSS min perf test cases for Cat M1 | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-183848 | 0262 | 1 | Clarifications and additions to EUTRAN, WLAN and BLE test frequencies and bandwidths | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-183849 | 0265 | 1 | Corrections to WLAN and BLE applicabilities | 15.1.0 | 15.2.0 |
| 2018-09 | RAN#81 | R5-184041 | 0266 | - | Clarifications and corrections to Bluetooth identification test | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-184189 | 0271 | - | Band groups added to specification | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-185416 | 0268 | 1 | Correction to nrs-CRS-PowerOffset-r13 for NB-IOT OTDOA tests | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-185417 | 0269 | 1 | NB-IOT OTDOA reporting delay test cases not testable | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-185419 | 0270 | 1 | Changes to eMTC OTDOA tests | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-185552 | 0267 | 1 | Applicability of tests for types and Categories of UE | 15.2.0 | 15.3.0 |
| 2018-12 | RAN#82 | R5-186489 | 0272 | - | Resubmission of CR 0269 | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186615 | 0274 | - | Clarification of the meaning of A-GPS | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186616 | 0275 | - | Addition of two missing triple-GNSS test cases | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186617 | 0276 | - | Updates to Table 4B.2-1 | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-187983 | 0277 | 1 | Editorial Changes for TS 37.571-1 | 15.3.0 | 15.4.0 |
| 2019-03 | RAN#83 | R5-191607 | 0281 | - | Editorial Changes for TS 37.571-1 | 15.4.0 | 15.5.0 |
| 2019-03 | RAN#83 | R5-192506 | 0278 | 1 | Addition of general NR information | 15.4.0 | 15.5.0 |
| 2019-03 | RAN#83 | R5-192646 | 0282 | 1 | Editorial updates for RSTD NB-IOT tests | 15.4.0 | 15.5.0 |
| 2019-03 | RAN#83 | R5-192851 | 0279 | 1 | Corrections to RSTD reporting accuracy NB-IOT tests | 15.4.0 | 15.5.0 |
| 2019-03 | RAN#83 | R5-192642 | 0280 | 1 | Band 53 introduction in TS 37-571-1 | 15.5.0 | 16.0.0 |
| 2019-06 | RAN#84 | R5-194099 | 0283 | - | Addition of A-GNSS tests for NR | 16.0.0 | 16.1.0 |
| 2019-06 | RAN#84 | R5-194100 | 0284 | - | Updates to Table 4B.2-1 for WLAN and BLE for NR | 16.0.0 | 16.1.0 |
| 2019-06 | RAN#84 | R5-194260 | 0285 | - | 38.509 reference update | 16.0.0 | 16.1.0 |
| 2019-06 | RAN#84 | R5-195009 | 0286 | 1 | MBS Tests for NR | 16.0.0 | 16.1.0 |
| 2019-06 | RAN#84 | R5-195450 | 0287 | 2 | Alignment 9.5.3 and 9.6.3 with core spec | 16.0.0 | 16.1.0 |
| 2019-09 | RAN#85 | R5-196604 | 0292 | - | Alignment of 9.5.3 and 9.6.3 to core spec | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197356 | 0294 | - | Missing Bands in Tables | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197357 | 0295 | - | Corrections to GNSS Multi-path Tests | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197358 | 0296 | - | Correct RSTD Test Parameter Values | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197381 | 0288 | 1 | Corrections to RSTD tests for NB-IoT | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197471 | 0289 | 1 | Alignment of NR terminology | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197473 | 0290 | 2 | Add default conditions for FR2 positioning tests for performance | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197477 | 0291 | 1 | Clarify LPP transport for min perf positioning | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197478 | 0293 | 1 | Correct MBS Applicability Table and Editorial Updates | 16.1.0 | 16.2.0 |
| 2019-12 | RAN#86 | R5-198063 | 0297 | - | Addition of User Plane testing of A-GNSS to clause 7 for LTE | 16.2.0 | 16.3.0 |
| 2019-12 | RAN#86 | R5-198817 | 0302 | - | Editorial Correction to Multi-Path Scenario Test Parameter Table | 16.2.0 | 16.3.0 |
| 2019-12 | RAN#86 | R5-198821 | 0303 | - | Add Reference to RRM Specifications for Frequency Band Groups | 16.2.0 | 16.3.0 |
| 2019-12 | RAN#86 | R5-198822 | 0304 | - | Editorial Corrections for RSTD Test Cases | 16.2.0 | 16.3.0 |
| 2019-12 | RAN#86 | R5-199090 | 0300 | 1 | Update to min perf positioning tests | 16.2.0 | 16.3.0 |
| 2020-03 | RAN#87 | R5-201013 | 0305 | 1 | Editorial changes to TS 37.571-X titles to remove references to individual RATs | 16.3.0 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202803 | 0308 | 1 | Update of the Note 1 in the Power level and satellite allocation tables for the Sensitivity Coarse time assistance requirements and tests for E-UTRA and NR. | 16.4.0 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204979 | 0309 | 1 | Clarification on frequency band test conditions for A-GNSS | 16.5.0 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206774 | 0311 | 1 | Addition of BDS B1C Signal test contents in TS 37.571-1 | 16.6.0 | 16.7.0 |
| 2020-12 | RAN#90 | R5-206783 | 0310 | 1 | Definition of A-GNSS Sensitivity testing conditions for EN-DC | 16.6.0 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210757 | 0318 | - | Update to Annex C for TDD NB-IOT RSTD measurement test cases | 16.7.0 | 16.8.0 |
| 2021-03 | RAN#91 | R5-211796 | 0312 | 1 | Addition of TDD NB-IOT RSTD measurement test case 9.7.1 | 16.7.0 | 16.8.0 |
| 2021-03 | RAN#91 | R5-211797 | 0313 | 1 | Addition of TDD NB-IOT RSTD measurement test case 9.7.2 | 16.7.0 | 16.8.0 |
| 2021-03 | RAN#91 | R5-211798 | 0314 | 1 | Addition of TDD NB-IOT RSTD measurement test case 9.7.3 | 16.7.0 | 16.8.0 |
| 2021-03 | RAN#91 | R5-211799 | 0315 | 1 | Addition of TDD NB-IOT RSTD measurement test case 9.8.1 | 16.7.0 | 16.8.0 |
| 2021-03 | RAN#91 | R5-211800 | 0316 | 1 | Addition of TDD NB-IOT RSTD measurement test case 9.8.2 | 16.7.0 | 16.8.0 |
| 2021-03 | RAN#91 | R5-211801 | 0317 | 1 | Addition of TDD NB-IOT RSTD measurement test case 9.8.3 | 16.7.0 | 16.8.0 |
| 2021-06 | RAN#92 | R5-212200 | 0320 | - | Addition of Derivation of Test Requirements for NB-IOT and CA RSTD tests | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212201 | 0321 | - | Corrections to RSTD accuracy requirements values for UE Category M1 and M2 test cases | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212202 | 0322 | - | Corrections to RSTD accuracy requirements values for NB-IOT test cases | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212234 | 0323 | - | Addition of Derivation of Test Requirements for RSTD and Category M1 and M2 RSTD tests | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212235 | 0324 | - | Correction to Derivation of Test Requirements for UE Rx-Tx tests for Category M1 and M2 UEs | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212237 | 0325 | - | Updates to Correction to Derivation of Test Requirements for UE Rx-Tx tests for Category M1 and M2 UEs | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212238 | 0326 | - | Addition of Test Parameter Relaxations for UE Rx - Tx time difference cases | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212242 | 0327 | - | Clarifications to FDD NB-IoT RSTD test case applicabilities and other corrections | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212244 | 0328 | - | Corrections to RSTD test cases for Category M1 and M2 UEs | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212247 | 0329 | - | Updates to requirements for RSTD test cases for Category M1 and M2 UEs | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-212397 | 0330 | - | Update Release 15 and onwards references for TS 36.355 to TS 37.355 | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-213134 | 0332 | - | Add OTDOA feMTC test case 9.3.14 | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-213135 | 0333 | - | Add OTDOA feMTC test case 9.3.15 | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-213138 | 0336 | - | Add OTDOA feMTC test case 9.3.18 | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-213139 | 0337 | - | OTDOA feMTC test cases - Annexes | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-213992 | 0331 | 1 | Add OTDOA feMTC test case 9.3.13 | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-213993 | 0334 | 1 | Add OTDOA feMTC test case 9.3.16 | 16.8.0 | 16.9.0 |
| 2021-06 | RAN#92 | R5-213994 | 0335 | 1 | Add OTDOA feMTC test case 9.3.17 | 16.8.0 | 16.9.0 |
| 2021-09 | RAN#93 | R5-215973 | 0338 | 1 | Addition of Multi-RTT, Dl-AoD and DL-TDOA positioning method test conditions | 16.9.0 | 16.10.0 |
| 2021-09 | RAN#93 | R5-215974 | 0340 | 1 | Addition of conditions for NR PRS-based measurements and connection diagrams | 16.9.0 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217133 | 0346 | - | Update number of satellites for multi-GNSS for LTE tests | 16.10.0 | 16.11.0 |
| 2021-12 | RAN#94 | R5-217134 | 0347 | - | Update number of satellites for multi-GNSS for NR tests | 16.10.0 | 16.11.0 |
| 2021-12 | RAN#94 | R5-217183 | 0355 | - | EN-DC frequency bands for testing of A-GNSS sensitivity requirements | 16.10.0 | 16.11.0 |
| 2021-12 | RAN#94 | R5-218283 | 0348 | 1 | Add OTDOA feMTC test case 9.4.13 | 16.10.0 | 16.11.0 |
| 2021-12 | RAN#94 | R5-218284 | 0349 | 1 | Add OTDOA feMTC test case 9.4.14 | 16.10.0 | 16.11.0 |
| 2021-12 | RAN#94 | R5-218285 | 0350 | 1 | Add OTDOA feMTC test case 9.4.15 | 16.10.0 | 16.11.0 |
| 2021-12 | RAN#94 | R5-218286 | 0351 | 1 | Add OTDOA feMTC test case 9.4.16 | 16.10.0 | 16.11.0 |
| 2021-12 | RAN#94 | R5-218287 | 0352 | 1 | Add OTDOA feMTC test case 9.4.17 | 16.10.0 | 16.11.0 |
| 2021-12 | RAN#94 | R5-218288 | 0353 | 1 | Add OTDOA feMTC test case 9.4.18 | 16.10.0 | 16.11.0 |
| 2021-12 | RAN#94 | R5-218289 | 0354 | 1 | OTDOA feMTC test cases - Annexes | 16.10.0 | 16.11.0 |
| 2022-03 | RAN#95 | R5-220518 | 0356 | - | Addition of test cases for UE Rx-Tx time difference measurement period | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-220534 | 0358 | - | Update test applicability to allow for support of limited GNSS combinations for 5G tests | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-220535 | 0359 | - | Update test applicability to allow for support of limited GNSS combinations | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-221201 | 0360 | - | Update for the signal conditions for FR2 test cases | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-221202 | 0361 | - | New NR RSTD test case 14.2.1 | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-221203 | 0362 | - | New NR RSTD test case 14.2.2 | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-221204 | 0363 | - | New NR RSTD test case 14.3.1 | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-221205 | 0364 | - | New NR RSTD test case 14.3.2 | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-221206 | 0365 | - | New NR PRS-RSRP test case 16.2.1 | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-221207 | 0366 | - | New NR PRS-RSRP test case 16.2.2 | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-221208 | 0367 | - | New NR PRS-RSRP test case 16.3.1 | 16.11.0 | 16.12.0 |
| 2022-03 | RAN#95 | R5-221887 | 0357 | 1 | Addition of UE Rx-Tx time difference measurement test uncertainties and test parameter relaxations | 16.11.0 | 16.12.0 |
| 2022-06 | RAN#96 | R5-222596 | 0368 | - | Addition of measurement period requirements in Multi-RTT test conditions, DL-TDOA test conditions and DL-AoD test conditions | 16.12.0 | 16.13.0 |
| 2022-06 | RAN#96 | R5-222597 | 0369 | - | Correction of NR RSTD test cases 14.2.1, 14.2.2, 14.3.1 and 14.3.2 | 16.12.0 | 16.13.0 |
| 2022-06 | RAN#96 | R5-222598 | 0370 | - | Addition of SRS configuration in UE Rx-Tx time difference measurement period test cases | 16.12.0 | 16.13.0 |
| 2022-06 | RAN#96 | R5-222599 | 0371 | - | Addition of new RSTD accuracy test case 14.2.3 | 16.12.0 | 16.13.0 |
| 2022-06 | RAN#96 | R5-222600 | 0372 | - | Addition of new RSTD accuracy test case 14.2.4 | 16.12.0 | 16.13.0 |
| 2022-06 | RAN#96 | R5-222601 | 0373 | - | Addition of new RSTD accuracy test case 14.3.3 | 16.12.0 | 16.13.0 |
| 2022-06 | RAN#96 | R5-222603 | 0375 | - | Addition of new UE Rx-TX time difference accuracy test case 15.3.1 | 16.12.0 | 16.13.0 |
| 2022-06 | RAN#96 | R5-222604 | 0376 | - | Addition of new UE Rx-TX time difference accuracy test case 15.3.2 | 16.12.0 | 16.13.0 |
| 2022-06 | RAN#96 | R5-223748 | 0374 | 1 | Addition of new RSTD accuracy test case 14.3.4 | 16.12.0 | 16.13.0 |
| 2022-09 | RAN#97 | R5-223972 | 0379 | - | Annexes for TC 14.2.1 and 14.3.1 | 16.13.0 | 16.14.0 |
| 2022-09 | RAN#97 | R5-224401 | 0381 | - | Correction of UE Rx-Tx time difference accuracy test cases | 16.13.0 | 16.14.0 |
| 2022-09 | RAN#97 | R5-224403 | 0383 | - | Addition of new PRS RSRP measurement period test case 16.2.3 | 16.13.0 | 16.14.0 |
| 2022-09 | RAN#97 | R5-224404 | 0384 | - | Addition of new PRS RSRP measurement period test case 16.2.4 | 16.13.0 | 16.14.0 |
| 2022-09 | RAN#97 | R5-224478 | 0386 | - | Core spec alignment 9.6.3 | 16.13.0 | 16.14.0 |
| 2022-09 | RAN#97 | R5-225698 | 0380 | 1 | Correction to UE Rx-TX time difference measurement period test cases 15.2.1 and 15.2.2 | 16.13.0 | 16.14.0 |
| 2022-09 | RAN#97 | R5-225740 | 0382 | 1 | Correction of NR RSTD test cases | 16.13.0 | 16.14.0 |
| 2022-09 | RAN#97 | R5-225741 | 0385 | 1 | Addition of new PRS RSRP measurement accuracy test case 16.3.2 | 16.13.0 | 16.14.0 |
| 2022-09 | RAN#97 | R5-225877 | 0377 | 1 | Complete TC 14.2.1 including TT analysis results | 16.13.0 | 16.14.0 |
| 2022-09 | RAN#97 | R5-225878 | 0378 | 1 | Complete TC 14.3.1 including TT analysis results | 16.13.0 | 16.14.0 |
| 2022-12 | RAN#98 | R5-225944 | 0388 |  | Addition of NR PRS-based measurement requirements for Multi-RTT test cases | 16.14.0 | 16.15.0 |
| 2022-12 | RAN#98 | R5-226460 | 0389 |  | Addition of accuracy requiremets for RSTD and PRS-RSRP | 16.14.0 | 16.15.0 |
| 2022-12 | RAN#98 | R5-226489 | 0394 |  | Update on Annexes for RSTD TT results | 16.14.0 | 16.15.0 |
| 2022-12 | RAN#98 | R5-227843 | 0387 | 1 | Correction to UE Rx-Tx time difference test cases 15.2.3, 15.2.4, 15.3.1 and 15.3.2 | 16.14.0 | 16.15.0 |
| 2022-12 | RAN#98 | R5-228005 | 0390 | 1 | Complete TC 14.2.1 with TT analysis results | 16.14.0 | 16.15.0 |
| 2022-12 | RAN#98 | R5-228006 | 0391 | 1 | Complete TC 14.3.1 with TT analysis results | 16.14.0 | 16.15.0 |
| 2022-12 | RAN#98 | R5-228007 | 0392 | 1 | Update TC 14.2.2 with TT analysis results | 16.14.0 | 16.15.0 |
| 2022-12 | RAN#98 | R5-228008 | 0393 | 1 | Update TC 14.3.2 with TT analysis results | 16.14.0 | 16.15.0 |
| 2023-03 | RAN#99 | R5-230337 | 0404 | - | Addition of accuracy requirements for UE Rx-Tx time difference | 16.15.0 | 16.16.0 |
| 2023-03 | RAN#99 | R5-230927 | 0405 | - | Update TC 14.3.2 with TT analysis results | 16.15.0 | 16.16.0 |
| 2023-03 | RAN#99 | R5-231749 | 0395 | 1 | Correction to RSTD test case 14.2.3 | 16.15.0 | 16.16.0 |
| 2023-03 | RAN#99 | R5-231750 | 0396 | 1 | Correction to RSTD test case 14.2.4 | 16.15.0 | 16.16.0 |
| 2023-03 | RAN#99 | R5-231751 | 0397 | 1 | Correction to RSTD test case 14.3.3 | 16.15.0 | 16.16.0 |
| 2023-03 | RAN#99 | R5-231752 | 0398 | 1 | Correction to RSTD test case 14.3.4 | 16.15.0 | 16.16.0 |
| 2023-03 | RAN#99 | R5-231753 | 0399 | 1 | Correction to PRS-RSRP test case 16.2.3 | 16.15.0 | 16.16.0 |
| 2023-03 | RAN#99 | R5-231754 | 0400 | 1 | Correction to PRS-RSRP test case 16.2.4 | 16.15.0 | 16.16.0 |
| 2023-03 | RAN#99 | R5-231755 | 0402 | 1 | Addition of NR PRS-based measurement requirements for NR RSTD and PRS-RSRP test cases | 16.15.0 | 16.16.0 |
| 2023-03 | RAN#99 | R5-231798 | 0406 | 1 | Update minimum conformance requirements for dual PFL for TC 14.3.2 | 16.15.0 | 16.16.0 |
| 2023-06 | RAN#100 | R5-232148 | 0409 | - | Removal of technical content in TS 37.571-1 v16.16.0 and substitution with pointer to the next Release | 16.16.0 | 16.17.0 |