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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 2: Protocol conformance

(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 2 of a multi-part 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 protocol conformance testing for UTRAN, E-UTRAN and NR User Equipment (UE) supporting UE positioning.

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

- the overall protocol conformance test structure;

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

The present document is valid for UE supporting UE positioning implemented according to 3GPP releases starting from Release 99 up to the Release indicated on the cover page 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 [34] (void)

[35] 3GPP TR 37.571-2 Release 17: "User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance"

# 3 Definitions and abbreviations

Void

# 4 Default Conditions for UTRAN

The requirements of the present document are provided in 3GPP TR 37.571-2 Release 17 [35].

# 5 to 9 Void

Annex A (informative):  
Change history

| **Change history** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **TSG #** | **TSG Doc.** | **CR** | **Rev** | **Subject/Comment** | **Old** | **New** |
| 36.571-2 | | | | | | | |
| 2010-08 | R5#48 | R5-104119 |  |  | Initial skeleton proposal |  | 0.0.0 |
|  | R5#48 | R5-104741 |  |  | Merge of documents R5-104119, R5-104120, R5-104121, R5-104122, together with small editorial modifications | 0.0.0 | 0.0.1 |
| 2011-02 | R5#50 | R5-110250 |  |  | Various corrections based on LPP v9.3.0 (R5-106431) | 0.0.1 |  |
|  |  |  |  |  | New test cases: LPP Reliable Transport (R5-106433) |  |  |
|  |  |  |  |  | New test cases: CS fallback (R5-106698) |  | 0.1.0 |
| 2011-05 | R5#51 | R5-112388 |  |  | Various corrections (R5-110251) | 0.1.0 |  |
|  |  |  |  |  | OTDOA default conditions (R5-110252) |  | 0.2.0 |
| 2011-08 | R5#52 | R5-113770 |  |  | Small corrections to 36.571-2 baseline text | 0.2.0 |  |
|  |  | R5-113771 |  |  | Addition of LPP abort test case |  |  |
|  |  | R5-113147 |  |  | Addition of Position Capability Transfer test case |  |  |
|  |  | R5-113140 |  |  | Addition of Notification test cases |  |  |
|  |  | R5-113769 |  |  | Addition of UE Network Capability test case |  |  |
|  |  | R5-113847 |  |  | Addition of LPP Error handling test cases |  | 1.0.0 |
| 37.571-2 | | | | | | | |
| 2011-11 | R5#53 | R5-115249 |  |  | Creation of 37.571-2 based on 36.571-2 v1.0.0 and 34.123-1 v9.6.0 |  | 1.0.0 |
|  |  | R5-115250 |  |  | Default conditions for ECID signalling test cases in 37.571-2 baseline text |  |  |
|  |  | R5-115251 |  |  | Various corrections to the 37.571-2 baseline text |  |  |
|  |  | R5-115252 |  |  | Default system information for UTRAN A-GNSS tests in 37.571-2 baseline text |  | 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 | R5-120358 | 0001 | - | Addition of missing test case 7.3.4.1 | 9.0.0 | 9.1.0 |
| 2012-03 | RAN#55 | R5-120359 | 0002 | - | Addition of missing test case 7.3.4.2 | 9.0.0 | 9.1.0 |
| 2012-03 | RAN#55 | R5-120360 | 0003 | - | Addition of missing test case 7.3.4.3 | 9.0.0 | 9.1.0 |
| 2012-03 | RAN#55 | R5-120361 | 0004 | - | Addition of missing test case 7.3.4.4 | 9.0.0 | 9.1.0 |
| 2012-03 | RAN#55 | R5-120362 | 0005 | - | Editorial corrections to 37.571-2 | 9.0.0 | 9.1.0 |
| 2012-03 | RAN#55 | R5-120363 | 0006 | - | Completion of Test Case 7.3.1.1 | 9.0.0 | 9.1.0 |
| 2012-03 | RAN#55 | R5-120364 | 0007 | - | Removal of FFS for Sub-test -7 | 9.0.0 | 9.1.0 |
| 2012-03 | RAN#55 | R5-120395 | 0008 | - | Addition of RESET command to EPC MO-LR tests | 9.0.0 | 9.1.0 |
| 2012-03 | RAN#55 | R5-120725 | 0009 | - | Correction of MO-LR CS fallback test cases 7.4.1 | 9.0.0 | 9.1.0 |
| 2012-06 | RAN#56 | R5-121134 | 0010 | - | Clarification to cell synchronization for OTDOA | 9.1.0 | 9.2.0 |
| 2012-06 | RAN#56 | R5-121148 | 0011 | - | Completion of Test Case 7.3.1.1 | 9.1.0 | 9.2.0 |
| 2012-06 | RAN#56 | - | - | - | Upgrade to v10.0.0 with no change. | 9.2.0 | 10.0.0 |
| 2012-09 | RAN#57 | R5-123067 | 0012 | - | Removal of FFS for Sub-test-7 | 10.0.0 | 10.1.0 |
| 2012-09 | RAN#57 | R5-123068 | 0013 | - | Correction of references to clauses in 37.571-5 | 10.0.0 | 10.1.0 |
| 2012-09 | RAN#57 | R5-123070 | 0014 | - | Editorial Corrections | 10.0.0 | 10.1.0 |
| 2012-09 | RAN#57 | R5-123071 | 0015 | - | Correction of MO-LR CS fallback test cases 7.4.1 | 10.0.0 | 10.1.0 |
| 2012-09 | RAN#57 | R5-123072 | 0016 | - | Correction to UE Network Capability Test Procedure | 10.0.0 | 10.1.0 |
| 2012-09 | RAN#57 | R5-123073 | 0017 | - | Correction to Register and Facility message type content | 10.0.0 | 10.1.0 |
| 2012-09 | RAN#57 | R5-123074 | 0018 | - | Addition of RESET command to EPC MO-LR tests | 10.0.0 | 10.1.0 |
| 2012-09 | RAN#57 | R5-123698 | 0019 | - | Small corrections to default E-UTRAN message contents | 10.0.0 | 10.1.0 |
| 2013-03 | RAN#59 | R5-130112 | 0021 | - | Correction to LPP Request Location Information Message Content for TC 7.3.4.4 | 10.1.0 | 10.2.0 |
| 2013-03 | RAN#59 | R5-130593 | 0022 | - | Correction of applicability for TC 7.3.2.3 | 10.1.0 | 10.2.0 |
| 2013-06 | RAN#60 | R5-131099 | 0023 | - | Clarification of IE values | 10.2.0 | 10.3.0 |
| 2013-06 | RAN#60 | R5-131100 | 0024 | - | Correction of behaviour in 7.3.2.3 | 10.2.0 | 10.3.0 |
| 2013-06 | RAN#60 | R5-131101 | 0025 | - | Simplification of test set-up for OTDOA and ECID tests | 10.2.0 | 10.3.0 |
| 2013-06 | RAN#60 | R5-131306 | 0026 | - | Correction to LTE UE Positioning test cases | 10.2.0 | 10.3.0 |
| 2013-06 | RAN#60 | R5-131326 | 0027 | - | Correction to available GNSS assistance data elements | 10.2.0 | 10.3.0 |
| 2013-06 | RAN#60 | R5-131877 | 0028 | - | Clarification of Sub-Test Case Numbers Tables | 10.2.0 | 10.3.0 |
| 2013-06 | RAN#60 | R5-131878 | 0029 | - | New test case for inter-frequency RSTD measurement indication procedure | 10.2.0 | 10.3.0 |
| 2013-09 | RAN#61 | R5-133175 | 0030 | - | Clarifications to 7.3.3.1 | 10.3.0 | 10.4.0 |
| 2013-12 | RAN#62 | R5-134907 | 0031 | - | Addition of missing IEs from otdoa-ProvideCapabilities in 7.3.1.1 | 10.4.0 | 10.5.0 |
| 2013-12 | RAN#62 | R5-134908 | 0032 | - | Change Applicability of test 7.3.5.1 | 10.4.0 | 10.5.0 |
| 2013-12 | RAN#62 | R5-134909 | 0033 | - | Addition of Capability exchange in various clause 7 tests | 10.4.0 | 10.5.0 |
| 2013-12 | RAN#62 | R5-134910 | 0034 | - | Clarification of Provide Capabilities content for test 7.2.2.2 | 10.4.0 | 10.5.0 |
| 2014-03 | RAN#63 | R5-140133 | 0035 | - | Add Assistance Data delivery to test 7.3.5.1 | 10.5.0 | 10.6.0 |
| 2014-03 | RAN#63 | R5-140606 | 0036 | - | Correction to LTE UE Positioning test case 7.2.1.2 | 10.5.0 | 10.6.0 |
| 2014-03 | RAN#63 | R5-140608 | 0037 | - | Correction to LTE UE Positioning test case 7.2.1.3 | 10.5.0 | 10.6.0 |
| 2014-03 | RAN#63 | R5-140793 | 0038 | - | Correction to message content for inter-frequency RSTD measurement indication test case | 10.5.0 | 10.6.0 |
| 2014-06 | RAN#64 | R5-142251 | 0039 | - | Clarification of use of satellite simulator | 10.6.0 | 10.7.0 |
| 2014-06 | RAN#64 | R5-142886 | 0040 | - | Correction to EUTRA UE Positioning test cases 7.3.4.x | 10.6.0 | 10.7.0 |
| 2014-09 | RAN#65 | R5-144194 | 0041 | - | Clarification for configuration of cell 1 in OTDOA tests | 10.7.0 | 10.8.0 |
| 2014-09 | RAN#65 | R5-144195 | 0042 | - | RESET Positioning Information in LPP Abort Procedures | 10.7.0 | 10.8.0 |
| 2014-09 | RAN#65 | R5-144237 | 0043 | - | Adding extra neighbour cells to 7.3.5.1 | 10.7.0 | 10.8.0 |
| 2014-09 | RAN#65 | R5-144626 | 0044 | - | Correct OTDOA and ECID Elements in 7.3.4.2 and 7.3.4.4 | 10.7.0 | 10.8.0 |
| 2014-09 | RAN#65 | R5-144702 | 0045 | - | Correction to test case 7.5.1, Table 7.5.1.3.2-1: Main behaviour | 10.7.0 | 10.8.0 |
| 2014-09 | RAN#65 | R5-144703 | 0046 | - | Updates OTDOA Neighbour Cell Info List | 10.7.0 | 10.8.0 |
| 2014-12 | RAN#66 | R5-145137 | 0047 | - | Clarification to OTDOA Assistance Data | 10.8.0 | 10.9.0 |
| 2014-12 | RAN#66 | R5-145347 | 0048 | - | Addition of Galileo in test 7.3.3 | 10.8.0 | 10.9.0 |
| 2014-12 | RAN#66 | R5-145736 | 0049 | - | Correction to OTDOA related default message contents in LPP common procedure for Position Capability Transfer | 10.8.0 | 10.9.0 |
| 2014-12 | RAN#66 | - | - | - | Raised to v 11.0.0 with no change | 10.9.0 | 11.0.0 |
| 2014-12 | RAN#66 | R5-145737 | 0050 | - | Addition of Beidou | 11.0.0 | 12.0.0 |
| 2015-03 | RAN#67 | R5-150741 | 0051 | - | Abbreviation Corrections for BDS in 37.571-2 | 12.0.0 | 12.1.0 |
| 2015-06 | RAN#68 | R5-151109 | 0054 | - | IMS settings for LTE Positioning test cases | 12.1.0 | 12.2.0 |
| 2015-06 | RAN#68 | R5-151981 | 0053 | 1 | Correction of prs-ConfigurationIndex for TDD | 12.1.0 | 12.2.0 |
| 2015-06 | RAN#68 | R5-151982 | 0055 | 1 | LPP updates and corrections | 12.1.0 | 12.2.0 |
| 2015-06 | RAN#68 | R5-151983 | 0056 | 1 | Update of default GNSS Assistance Data Elements | 12.1.0 | 12.2.0 |
| 2015-06 | RAN#68 | R5-151984 | 0057 | 1 | Correction to EUTRA UE Positioning test case 7.3.3.1 | 12.1.0 | 12.2.0 |
| 2015-06 | RAN#68 | R5-152147 | 0058 | 1 | Correction to EUTRA UE Positioning test cases covering the UE-assisted case | 12.1.0 | 12.2.0 |
| 2015-06 | RAN#68 | R5-152149 | 0052 | 2 | Addition of "early fix" to A-GNSS tests | 12.1.0 | 12.2.0 |
| 2015-09 | RAN#69 | R5-153110 | 0059 | - | Correction to GANSS Multi-frequency Measurement Requested IE | 12.2.0 | 12.3.0 |
| 2015-09 | RAN#69 | R5-153111 | 0060 | - | Corrections to MEASUREMENT CONTROL messages | 12.2.0 | 12.3.0 |
| 2015-09 | RAN#69 | R5-153153 | 0061 | - | Missing " earlyFixReport-r12 " in Table 7.2.2.2.3.3-13 | 12.2.0 | 12.3.0 |
| 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 | 12.2.0 | 12.3.0 |
| 2015-12 | RAN#70 | R5-155101 | 0064 | - | Correction to use of Modernized GPS with BDS | 12.3.0 | 12.4.0 |
| 2016-03 | RAN#71 | R5-160354 | 0067 | - | Addition of extra call flow to test case 7.3.4.4 | 12.4.0 | 12.5.0 |
| 2016-09 | RAN#73 | R5-165993 | 0069 | 1 | Add missing references to GPS and Galileo and A-GPS and A-Galileo | 12.5.0 | 12.6.0 |
| 2016-09 | RAN#73 | R5-165996 | 0070 | 1 | Addition of Indoor Positioning Protocol Conformance Testing (MBS) | 12.6.0 | 13.0.0 |
| 2016-12 | RAN#74 | R5-168065 | 0071 | - | Change of applicability of ECID tests for TDD | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-168461 | 0073 | - | Missing Satellite signal sub-test case reference | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-168463 | 0075 | - | Incorrect Procedure Step referenced for Main behaviour Table | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169094 | 0074 | 1 | Correction in Table 7.3.4.4.3.3-11 for sub test 6 | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169100 | 0072 | 1 | Addition of TC 7.3.3.1A | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169101 | 0076 | 1 | Add WLAN signalling sub-test and references for Indoor Positioning | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169102 | 0077 | 1 | Add BT signalling sub-test and references for Indoor Positioning | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169103 | 0078 | 1 | Add Sensor signalling sub-test and references for Indoor Positioning | 13.0.0 | 13.1.0 |
| 2017-03 | RAN#75 | R5-170736 | 0079 | - | Remove Bluetooth Abbreviations and Add Missing References for WLAN | 13.1.0 | 13.2.0 |
| 2017-03 | RAN#75 | - | - | - | Administrative release upgrade to match the release of 3GPP TS 37.571-1 which was upgraded at RAN#74 to Rel-14 due to Rel-14 relevant CR(s) | 13.2.0 | 14.0.0 |
| 2017-06 | RAN#76 | R5-172963 | 0082 | 1 | Merge GNSS sub-tests into one sub-test | 14.0.0 | 14.1.0 |
| 2017-06 | RAN#76 | R5-172964 | 0084 | 1 | Correction to tbs-ProvideCapabilities in several tables | 14.0.0 | 14.1.0 |
| 2017-06 | RAN#76 | R5-172967 | 0083 | 1 | Introduction of MBS Assistance Data Signalling Sub-test 16 | 14.0.0 | 14.1.0 |
| 2017-09 | RAN#77 | R5-173685 | 0086 | - | Editorial changes for Release 14 alignment with core specification | 14.1.0 | 14.2.0 |
| 2017-09 | RAN#77 | R5-173922 | 0089 | - | Clarifications to test 7.2.2.1 for UEs that support more than one positioning technology | 14.1.0 | 14.2.0 |
| 2017-09 | RAN#77 | R5-174060 | 0091 | - | Editorial change to remove referenced text for ‘signals switched off or not present’ in Section 7 | 14.1.0 | 14.2.0 |
| 2017-09 | RAN#77 | R5-174582 | 0087 | 1 | Correction to Inter-frequency RSTD measurement indication test cases 7.5.1 to support Band > 64 | 14.1.0 | 14.2.0 |
| 2017-09 | RAN#77 | R5-174583 | 0090 | 1 | Editorial change to correct typos and missing Information Elements in tables | 14.1.0 | 14.2.0 |
| 2017-09 | RAN#77 | R5-174585 | 0088 | 1 | Editorial change to correct IEs | 14.1.0 | 14.2.0 |
| 2017-12 | RAN#78 | R5-176088 | 0092 | - | Correction to LPP ProvideAssistanceData for UE Based MBS | 14.2.0 | 14.3.0 |
| 2017-12 | RAN#78 | R5-176569 | 0093 | - | Addition of Rel-14 WLAN Positioning Protocol Tests and Sub-Tests | 14.2.0 | 14.3.0 |
| 2017-12 | RAN#78 | R5-176570 | 0094 | - | Addition of Rel-14 Sensor Positioning Protocol Tests and Sub-Tests | 14.2.0 | 14.3.0 |
| 2017-12 | RAN#78 | R5-176574 | 0095 | - | Correction for UE Assisted TBS Request Location Information Table | 14.2.0 | 14.3.0 |
| 2017-12 | RAN#78 | R5-176576 | 0096 | - | Deletion of Duplicated IEs in Table 5.4.1.3-2 | 14.2.0 | 14.3.0 |
| 2017-12 | RAN#78 | R5-177039 | 0097 | 1 | Editorial change to correct typos, grammar, descriptive text in table content, missing references and formatting issues | 14.2.0 | 14.3.0 |
| 2017-12 | RAN#78 | - | - | - | Administrative release upgrade to match the release of 3GPP TS 37.571-1 which was upgraded at RAN#78 to Rel-15 due to Rel-15 relevant CR(s) | 14.3.0 | 15.0.0 |
| 2018-03 | RAN#79 | R5-181111 | 0102 | - | Update Main Behaviour positioning method | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181112 | 0103 | - | Missing Release 14 Information Element for otdoa | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181113 | 0104 | - | Update Simulated Environment conditions for MBS, WLAN, and Bluetooth | 15.0.0 | 15.1.0 |
| 2018-06 | RAN#80 | R5-182957 | 0106 | - | Correction to UE Positioning TCs 7.2.2.1 + 7.2.2.2 | 15.1.0 | 15.2.0 |
| 2018-06 | RAN#80 | R5-183169 | 0105 | 1 | Addition of Rel-14 LPP message segmentation IEs into Capabilities messages | 15.1.0 | 15.2.0 |
| 2018-09 | RAN#81 | R5-184037 | 0108 | - | Addition of PICS for support of LPP message segmentation in test 7.3.1.1 | 15.2.0 | 15.3.0 |
| 2018-12 | RAN#82 | R5-186618 | 0109 | - | Addition of NR background information | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186695 | 0110 | - | Addition of Rel-12 missing IEs to LPP message contents | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186696 | 0111 | - | Addition of Rel-15 missing IEs to LPP message contents | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-187726 | 0112 | 1 | Positioning NSA Protocol tests - LPP Procedures | 15.3.0 | 15.4.0 |
| 2019-03 | RAN#83 | R5-192382 | 0113 | 1 | Addition NR SA positioning tests and removal of NSA | 15.4.0 | 15.5.0 |
| 2019-03 | RAN#83 | - | - | - | Administrative release upgrade to match the release of TS 37.571-1 which was upgraded at RAN#83 to Rel-16 due to a Rel-16 relevant CR | 15.5.0 | 16.0.0 |
| 2019-06 | RAN#84 | R5-195201 | 0119 | - | Addition of information for test environments for NR | 16.0.0 | 16.1.0 |
| 2019-06 | RAN#84 | R5-195203 | 0118 | 1 | Clean Up of NR Positioning Test Cases | 16.0.0 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197164 | 0124 | 1 | Correction to Testcases 7.2.2.2, 7.3.4.2 and 7.3.4.4 | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197166 | 0120 | 1 | Addition of sub-test information for NR tests | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197167 | 0121 | 1 | Alignment of NR terminology | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197168 | 0122 | 1 | Complete positioning protocol tests for NR | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197169 | 0123 | 1 | Add default conditions for FR2 positioning tests | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197170 | 0125 | 1 | Clean Up of NR Positioning Test Cases | 16.1.0 | 16.2.0 |
| 2019-09 | RAN#85 | R5-197175 | 0126 | - | Missing Values from Request Assistance Data Table | 16.1.0 | 16.2.0 |
| 2019-12 | RAN#86 | R5-198966 | 0127 | 1 | Additional test coverage for multi-frequency GNSS test cases | 16.2.0 | 16.3.0 |
| 2019-12 | RAN#86 | R5-198967 | 0128 | 1 | Update to protocol positioning tests | 16.2.0 | 16.3.0 |
| 2020-03 | RAN#87 | R5-201010 | 0131 | 1 | ECID test cases deleted for NR Test Configuration B up to and including LPP Rel-15 | 16.3.0 | 16.4.0 |
| 2020-03 | RAN#87 | R5-201012 | 0129 | 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 | R5-203511 | 0133 | - | Correction of WLAN Assistance Data Element referenced clause | 16.4.0 | 16.5.0 |
| 2020-06 | RAN#88 | R5-204489 | 0132 | 1 | Adding measurement gaps for OTDOA configuration | 16.4.0 | 16.5.0 |
| 2020-06 | RAN#88 | R5-204532 | 0134 | 1 | Addition of OTDOA information for pre-test conditions for test 9.3.3.1B | 16.4.0 | 16.5.0 |
| 2020-12 | RAN#90 | R5-205211 | 0136 | - | Addition of miscellaneous Release 16 fields to tables in test case 7.3.1.1 | 16.5.0 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205667 | 0139 | - | Clarification of configuration of measurement gaps for OTDOA in NR tests | 16.5.0 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206424 | 0137 | 1 | Addition of BDS B1C Signal test contents in TS 37.571-2 | 16.5.0 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206442 | 0135 | 1 | Deletion of tests 7.3.3.1, 7.3.3.1A, 9.3.3.1 and 9.3.3.1A | 16.5.0 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206443 | 0138 | 1 | Corrections to LPP Provide Assistance Data for NR test cases in clause 9 | 16.5.0 | 16.6.0 |
| 2021-03 | RAN#91 | R5-210258 | 0140 | - | Definition of values for epdu fields | 16.6.0 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210260 | 0141 | - | Corrections and clarifications to default MBS, WLAN and Sensor assistance data in clause 5.4.1 | 16.6.0 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211298 | 0142 | - | Corrections for support of multiple GPS signals | 16.6.0 | 16.7.0 |
| 2021-06 | RAN#92 | R5-213638 | 0144 | 1 | Addition of NR Rel 16 positioning methods information into protocol conformance test cases for NR | 16.7.0 | 16.8.0 |
| 2021-06 | RAN#92 | R5-213639 | 0145 | 1 | Addition of NR Rel 16 positioning methods into default conditions for NR | 16.7.0 | 16.8.0 |
| 2021-09 | RAN#93 | R5-215154 | 0149 | - | Clarifications for OTDOA (LTE) test cases for NR | 16.8.0 | 16.9.0 |
| 2021-09 | RAN#93 | R5-215616 | 0151 | - | Clarification text on LCS Sub-Test Cases | 16.8.0 | 16.9.0 |
| 2021-09 | RAN#93 | R5-216322 | 0147 | 1 | Correction to NR positioning method information in Position Capability Transfer test case | 16.8.0 | 16.9.0 |
| 2021-09 | RAN#93 | R5-216323 | 0148 | 1 | Addition of assistance data information elements for Multi-RTT, DL-AoD and DL-TDOA positioning methods | 16.8.0 | 16.9.0 |
| 2021-12 | RAN#94 | R5-217127 | 0155 | - | Correction to pre-test conditions for NR DL-TDOA UE-Based test cases | 16.9.0 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217936 | 0152 | 1 | Addition of RESET UE POSITIONING STORED INFORMATION message contents | 16.9.0 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217937 | 0153 | 1 | Correction of the test steps for Multi-RTT sub-tests | 16.9.0 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217938 | 0154 | 1 | Correction of the conditions for Multi-RTT and Dl-AoD assistance data elements | 16.9.0 | 16.10.0 |
| 2022-03 | RAN#95 | R5-221592 | 0156 | 1 | Addition of TC 9.4.1 PosSIB broadcasting followed by location information transfer | 16.10.0 | 16.11.0 |
| 2022-03 | RAN#95 | R5-221593 | 0157 | 1 | Correction of the assistance data elements for NR positioning support | 16.10.0 | 16.11.0 |
| 2022-06 | RAN#96 | R5-223388 | 0158 | 1 | Correction of TC 9.4.1 PosSIB broadcasting followed by location information transfer | 16.11.0 | 16.12.0 |
| 2022-06 | RAN#96 | R5-223389 | 0159 | 1 | Addition of TC 9.4.2 PosSIB broadcasting followed by location information transfer / Positioning SI messages offset | 16.11.0 | 16.12.0 |
| 2022-06 | RAN#96 | R5-223390 | 0160 | 1 | Addition of TC 7.5.2 PosSIB broadcasting followed by location information transfer | 16.11.0 | 16.12.0 |
| 2022-09 | RAN#97 | R5-224406 | 0162 | - | Removal of test case 7.5.2 | 16.12.0 | 16.13.0 |
| 2022-09 | RAN#97 | R5-224407 | 0163 | - | Correction of posSIB broadcasting test case | 16.12.0 | 16.13.0 |
| 2022-09 | RAN#97 | R5-225313 | 0161 | 1 | Correction to LPP Provide Capabilities template for subclause 9 test cases | 16.12.0 | 16.13.0 |
| 2022-09 | RAN#97 | R5-225314 | 0164 | 1 | Addition of on-demand PosSIB followed by location information transfer in RRC\_connected state | 16.12.0 | 16.13.0 |
| 2022-12 | RAN#98 | R5-226459 | 0165 |  | Correction of on-demand posSIB test case in RRC\_connected | 16.13.0 | 16.14.0 |
| 2022-12 | RAN#98 | R5-226513 | 0166 |  | Correction to MeasGapConfig | 16.13.0 | 16.14.0 |
| 2022-12 | RAN#98 | R5-226515 | 0168 |  | Correction to NR-DL-PRS-Info | 16.13.0 | 16.14.0 |
| 2022-12 | RAN#98 | R5-227526 | 0167 | 1 | Correction to NR DL-PRS Assistance Data | 16.13.0 | 16.14.0 |
| 2022-12 | RAN#98 | R5-227527 | 0169 | 1 | Include measObject as part of the measConfig message | 16.13.0 | 16.14.0 |
| 2023-03 | RAN#99 | R5-231022 | 0171 | - | Correction to NR-DL-PRS-Info parameters | 16.14.0 | 16.15.0 |
| 2023-06 | RAN#100 | R5-232149 | 0172 | - | Removal of technical content in TS 37.571-2 v16.15.0 and substitution with pointer to the next Release | 16.15.0 | 16.16.0 |