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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 5: Test scenarios and assistance data

(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 5 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 test scenarios and assistance data required for the conformance and minimum performance tests for FDD or TDD mode of UTRA, E-UTRA and NR for the User Equipment (UE) that supports one or more of the defined positioning methods. For UTRA these are Assisted Global Positioning System (A-GPS) and Assisted Global Navigation Satellite System (A-GNSS). For E-UTRA these are A-GNSS, Observed Time Difference of Arrival (OTDOA), Enhanced Cell ID (ECID), Wireless Local Area Network (WLAN), Metropolitan Beacon Systems (MBS) and Bluetooth. For NR these are A-GNSS, Observed Time Difference of Arrival (LTE) (OTDOA (LTE)), Enhanced Cell ID (LTE) (ECID (LTE)), Wireless Local Area Network (WLAN), Metropolitan Beacon Systems (MBS) and Bluetooth.

The present documents also specifies the GNSS scenario files for the test scenarios defined in TS 36.508 for V2X and aerial testing.

# 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 [26] (void)

[27] 3GPP TR 37.571-5 Release 17: "User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data"

# 3 Definitions, symbols and abbreviations

Void

# 4 General

The requirements of the present document are provided in 3GPP TR 37.571-5 Release 17 [27].

# 5 to 11 Void

Annex A to B: Void

Annex C (informative): Change history

| **Date** | **TSG #** | **TSG Doc.** | **CR** | **Rev** | **Subject/Comment** | **Old** | **New** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2010-08 | RAN5#48 | R5-104318 |  |  | Initial draft created as TS 36.571-5 |  | 0.0.0 |
| 2010-11 | RAN5#49 | R5-106146 |  |  | Initial draft created from TS 36.571-5 with minor updates | 0.0.0 | 0.1.0 |
| 2010-11 | RAN5#49 | R5-106615 |  |  | Editor’s notes added | 0.1.0 | 0.1.1 |
| 2010-11 | RAN5#49 | R5-106614 |  |  | Version 1.0.0 prepared for presentation to RAN Plenary | 0.1.1 | 1.0.0 |
| 2011-05 | RAN5#51 | R5-112807 |  |  | Version 1.1.0 with additional values and editorial changes | 1.0.0 | 1.1.0 |
| 2011-08 | RAN5#52 | R5-113136 |  |  | Additional values and editorial changes | 1.1.0 | - |
| 2011-08 | RAN5#52 | R5-113137 |  |  | Version 2.0.0 prepared for presentation to RAN Plenary | 1.1.0 | 2.0.0 |
| 2011-09 | RAN#53 | RP-111127 |  |  | v2.0.0 approved at RAN#53 and raised to v9.0.0 with no change | 2.0.0 | 9.0.0 |
| 2011-12 | RAN5#53 | R5-115203 | 0001 | - | Removal of editor's notes on OTDOA values | 9.0.0 | 9.1.0 |
| 2011-12 | RAN5#53 | R5-115204 | 0002 | - | Correction of references | 9.0.0 | 9.1.0 |
| 2012-03 | RAN5#54 | R5-120085 | 0003 | - | OTDOA reference corrections | 9.1.0 | 9.2.0 |
| 2012-03 | RAN5#54 | R5-120086 | 0004 | - | Update references | 9.1.0 | 9.2.0 |
| 2012-03 | RAN5#54 | R5-120092 | 0005 | - | OTDOA parameter corrections | 9.1.0 | 9.2.0 |
| 2012-06 | RAN5#55 | R5-121136 | 0006 | - | Corrections to GPS Almanac data file | 9.2.0 | 9.3.0 |
| 2012-06 | RAN5#55 | R5-121137 | 0007 | - | Removal of OTDOA data for signalling test cases | 9.2.0 | 9.3.0 |
| 2012-06 | RAN5#55 | R5-121249 | 0008 | - | LBS: Corrections to gnss-SystemTime message | 9.2.0 | 9.3.0 |
| 2012-06 | RAN5#55 | R5-121853 | 0009 | - | Additions and corrections to GNSS data | 9.2.0 | 9.3.0 |
| 2012-06 | RAN5#55 | R5-121910 | 0010 | - | Additions and corrections to GNSS data | 9.2.0 | 9.3.0 |
| 2012-06 | RAN5#55 | R5-121911 | 0011 | - | Reduction in size of GPS data file | 9.2.0 | 9.3.0 |
| 2012-06 | RAN5#55 | - | - | - | Upgraded to v10.0.0 with no change. | 9.3.0 | 10.0.0 |
| 2012-09 | RAN5#56 | R5-123097 | 0012 | - | Addition of missing Assistance Data | 10.0.0 | 10.1.0 |
| 2012-09 | RAN5#56 | R5-123699 | 0013 | - | Addition of Rel-10 Information Elements | 10.0.0 | 10.1.0 |
| 2012-09 | RAN5#56 | R5-123914 | 0014 | - | Addition of missing Assistance Data | 10.0.0 | 10.1.0 |
| 2012-12 | RAN5#57 | R5-125577 | 0015 | - | Correction to Reference UE Position value | 10.1.0 | 10.2.0 |
| 2012-12 | RAN5#57 | R5-125779 | 0017 | - | LBS Sig: Corrections to GLONASS acquisition assistance data | 10.1.0 | 10.2.0 |
| 2012-12 | RAN5#57 | R5-125780 | 0018 | - | LBS Sig: Corrections to GNSS assistance data | 10.1.0 | 10.2.0 |
| 2012-12 | RAN5#57 | R5-125849 | 0019 | - | LBS Perf: Correction of coordinates for GNSS Scenario #2 and #5 | 10.1.0 | 10.2.0 |
| 2012-12 | RAN5#57 | R5-125850 | 0020 | - | LBS Perf: Corrections to GNSS assistance data | 10.1.0 | 10.2.0 |
| 2012-12 | RAN5#57 | R5-125917 | 0021 | - | LBS Perf: Corrections to GLONASS acquisition assistance data | 10.1.0 | 10.2.0 |
| 2012-12 | RAN5#56bis | R5-124122 | 0022 | - | OTDOA data for new test cases 10.1 - 10.4 for RSTD for Carrier Aggregation | 10.1.0 | 10.2.0 |
| 2013-03 | RAN5#58 | R5-130118 | 0023 | - | Addition of Rel-10 IEs | 10.2.0 | 10.3.0 |
| 2013-03 | RAN5#58 | R5-130119 | 0024 | - | Addition of Rel-10 IEs | 10.2.0 | 10.3.0 |
| 2013-03 | RAN5#58 | R5-130122 | 0025 | - | Change of file names for assistance data | 10.2.0 | 10.3.0 |
| 2013-03 | RAN5#58 | R5-130123 | 0026 | - | Change of file names for assistance data | 10.2.0 | 10.3.0 |
| 2013-03 | RAN5#58 | R5-130529 | 0027 | - | Correction to GPS assistance data | 10.2.0 | 10.3.0 |
| 2013-03 | RAN5#58 | R5-130689 | 0028 | - | Correction to GLONASS assistance data | 10.2.0 | 10.3.0 |
| 2013-03 | RAN5#58 | R5-130690 | 0029 | - | Correction to GPS assistance data | 10.2.0 | 10.3.0 |
| 2013-03 | RAN5#58 | R5-130960 | 0030 | - | Correction to GLONASS assistance data | 10.2.0 | 10.3.0 |
| 2013-06 | RAN5#59 | R5-131103 | 0031 | - | Additional OTDOA assistance data for new inter-frequency tests | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-131108 | 0032 | - | Correction to GLONASS ToD | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-131329 | 0033 | - | Correction to available GNSS assistance data elements for signalling tests | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-131330 | 0034 | - | Addition of missing Rel-10 IE | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-131509 | 0035 | - | Corrections to UTC Model assistance data values | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-131511 | 0036 | - | Corrections and clarifications to use of UTC Model and Auxiliary Information | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-131948 | 0037 | - | OTDOA assistance data alignment with RAN 4 | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-131949 | 0038 | - | Corrections to UTC Model assistance data values | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-131997 | 0039 | - | LBS Perf: Introduction of GLONASS acquisition assistance data | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-131998 | 0040 | - | Addition of GLONASS Acquisition Assistance data | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-132060 | 0041 | - | Addition of GLONASS Acquisition Assistance data | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-132061 | 0042 | - | LBS Sig: Introduction of GLONASS acquisition assistance data | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-132100 | 0043 | - | Corrections and clarifications to use of UTC Model and Auxiliary Information | 10.3.0 | 10.4.0 |
| 2013-06 | RAN5#59 | R5-132101 | 0044 | - | Correction to GLONASS SV Health value in data file | 10.3.0 | 10.4.0 |
| 2013-09 | RAN5#60 | R5-133177 | 0045 | - | Removal of old Assistance Data files | 10.4.0 | 10.5.0 |
| 2013-09 | RAN5#60 | R5-133179 | 0046 | - | Addition of missing Assistance Data files | 10.4.0 | 10.5.0 |
| 2013-09 | RAN5#60 | R5-133180 | 0047 | - | Correction of Doppler 1 values for RRC | 10.4.0 | 10.5.0 |
| 2013-09 | RAN5#60 | R5-133341 | 0048 | - | Change of SV for GNSS Scenario #2 for Multi-path test | 10.4.0 | 10.5.0 |
| 2013-09 | RAN5#60 | R5-133487 | 0050 | - | Correction of Doppler 1 values for RRC | 10.4.0 | 10.5.0 |
| 2013-09 | RAN5#60 | R5-133488 | 0051 | - | Correction of Doppler values for LPP | 10.4.0 | 10.5.0 |
| 2013-09 | RAN5#60 | R5-133726 | 0052 | - | Correction of Doppler values for LPP | 10.4.0 | 10.5.0 |
| 2013-12 | RAN5#61 | R5-134206 | 0053 | - | Correction to GPS Almanac WNa value for scenarios #2 and #5 | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-134251 | 0054 | - | Correction of OmegaA0 value for SV1 in scenario #1 | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-134257 | 0055 | - | Deletion of FFS and Editor's note in clause 6.2.7 | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-134357 | 0057 | - | Correction to GLONASS Navigation Model for scenario #2 and #5 | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-134443 | 0058 | - | LBS Perf: Corrections to the headers of GPS acquisition assistance data files | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-134444 | 0059 | - | LBS Sig: Corrections to the headers of GPS acquisition assistance data files | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-134851 | 0060 | - | Addition of OTDOA Assistance Data for new 20MHz CA test cases | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-134912 | 0061 | - | Correction of OmegaA0 value for SV1 | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-134913 | 0062 | - | Correction to GNSS Navigation Model (sub-test 1) | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-135064 | 0063 | - | LBS Perf: Corrections to the GNSS acquisition assistance data - CR 1 | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-135065 | 0064 | - | LBS Perf: Corrections to the GNSS acquisition assistance data - CR 2 | 10.5.0 | 10.6.0 |
| 2013-12 | RAN5#61 | R5-135072 | 0065 | - | LBS Sig: Corrections to the GNSS acquisition assistance data | 10.5.0 | 10.6.0 |
| 2014-03 | RAN5#62 | R5-140198 | 0066 | - | Adjustment of SV IDs of Satellites to be simulated | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140377 | 0067 | - | LBS Perf: Update of headers of some GNSS acquisition assistance data files | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140378 | 0068 | - | LBS Sig: Removal of redundant inappropriate files from GNSS\_Data\_Sig\_V7.zip file | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140383 | 0069 | - | LBS Perf: Introducing Ephemeris files in Rinex format | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140384 | 0070 | - | LBS Sig: Introducing Ephemeris files in Rinex format | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140794 | 0071 | - | LBS Sig: Clarification on usage of acquisition assistance files | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140795 | 0072 | - | LBS Sig: Changing the name of Almanac files not in Yuma format | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140873 | 0073 | - | LBS Perf: Clarification on usage of acquisition assistance files | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140874 | 0074 | - | LBS Perf: Changing the name of Almanac files not in Yuma format | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140879 | 0075 | - | Corrections to GLONASS GANSS Day and gnss-DayNumber values | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-140900 | 0076 | - | Corrections to GLONASS GANSS Day and gnss-DayNumber values | 10.6.0 | 10.7.0 |
| 2014-03 | RAN5#62 | R5-141034 | 0077 | - | RSTD value updates | 10.6.0 | 10.7.0 |
| 2014-06 | RAN5#63 | R5-142097 | 0078 | - | Corrections to prs-MutingInfo | 10.7.0 | 10.8.0 |
| 2014-06 | RAN5#63 | R5-142249 | 0079 | - | Correction to T\_lamda\_n\_A values for scenario #1 | 10.7.0 | 10.8.0 |
| 2014-06 | RAN5#63 | R5-142250 | 0080 | - | Correction to T\_lamda\_n\_A values | 10.7.0 | 10.8.0 |
| 2014-06 | RAN5#63 | R5-142252 | 0081 | - | Clarification of use of satellite simulator | 10.7.0 | 10.8.0 |
| 2014-06 | RAN5#63 | R5-142884 | 0082 | - | LBS Sig: Correction of FT values in GLONASS scenarios and RINEX file update | 10.7.0 | 10.8.0 |
| 2014-06 | RAN5#63 | R5-142885 | 0083 | - | LBS Sig: Moving some .rnx files to the right .zip file | 10.7.0 | 10.8.0 |
| 2014-06 | RAN5#63 | R5-143110 | 0084 | - | LBS Perf: Moving some .rnx files to the right .zip file | 10.7.0 | 10.8.0 |
| 2014-06 | RAN5#63 | R5-143128 | 0085 | - | LBS Perf: Correction of FT values in GLONASS scenarios and RINEX file update | 10.7.0 | 10.8.0 |
| 2014-09 | RAN5#64 | R5-144133 | 0086 | - | LBS Perf: Adding missing information for QZSS | 10.8.0 | 10.9.0 |
| 2014-09 | RAN5#64 | R5-144135 | 0087 | - | LBS Perf: Adding missing files for QZSS | 10.8.0 | 10.9.0 |
| 2014-09 | RAN5#64 | R5-144136 | 0088 | - | LBS Sig: Adding missing files for QZSS | 10.8.0 | 10.9.0 |
| 2014-09 | RAN5#64 | R5-144139 | 0091 | - | LBS Perf: Adding missing files for Galileo | 10.8.0 | 10.9.0 |
| 2014-09 | RAN5#64 | R5-144140 | 0092 | - | LBS Sig: Adding missing files for Galileo | 10.8.0 | 10.9.0 |
| 2014-09 | RAN5#64 | R5-144793 | 0089 | - | LBS Perf: Adding missing information for Galileo and introduction of Galileo hybrid-subtest | 10.8.0 | 10.9.0 |
| 2014-09 | RAN5#64 | R5-144795 | 0090 | - | LBS Sig: Adding missing information for Galileo and introduction of Galileo hybrid-subtest | 10.8.0 | 10.9.0 |
| 2014-09 | RAN5#64 | R5-144872 | 0097 | - | Updates OTDOA Neighbour Cell Info List | 10.8.0 | 10.9.0 |
| 2014-12 | RAN5#65 | R5-145101 | 0102 | - | LBS Perf: Adding missing information for Galileo | 10.9.0 | 10.10.0 |
| 2014-12 | RAN5#65 | R5-145102 | 0103 | - | LBS Sig: Adding missing information for Galileo | 10.9.0 | 10.10.0 |
| 2014-12 | RAN5#65 | R5-145135 | 0104 | - | Clarification to OTDOA Assistance Data | 10.9.0 | 10.10.0 |
| 2014-12 | RAN5#65 | R5-145136 | 0105 | - | Update Galileo ICD reference | 10.9.0 | 10.10.0 |
| 2014-12 | RAN5#65 | - | - | - | Raised to v11.0.0 with no change | 10.10.0 | 11.0.0 |
| 2014-12 | RAN5#65 | R5-145978 | 0098 | - | LBS Perf: Adding test scenarios for Beidou | 11.0.0 | 12.0.0 |
| 2014-12 | RAN5#65 | R5-145098 | 0099 | - | LBS Sig: Adding test scenarios for Beidou | 11.0.0 | 12.0.0 |
| 2014-12 | RAN5#65 | R5-145099 | 0100 | - | LBS Perf: Adding data files for Beidou | 11.0.0 | 12.0.0 |
| 2014-12 | RAN5#65 | R5-145100 | 0101 | - | LBS Sig: Adding data files for Beidou | 11.0.0 | 12.0.0 |
| 2014-12 | RAN5#65 | R5-145895 | 0106 | - | Addition of Editor’s Note concerning missing data for TDD in sections 5.2 and 6.2 | 11.0.0 | 12.0.0 |
| 2015-03 | RAN5#66 | R5-150052 | 0107 | - | Updates to expectedRSTD values following changes in RAN 4 | 12.0.0 | 12.1.0 |
| 2015-03 | RAN5#66 | R5-150106 | 0108 | - | Change Nprs value in tests 10.3B, 10.3C, 10.4B, 10.4C | 12.0.0 | 12.1.0 |
| 2015-03 | RAN5#66 | R5-150237 | 0109 | - | LBS Perf: Correction to simulated BDS satellites | 12.0.0 | 12.1.0 |
| 2015-03 | RAN5#66 | R5-150839 | 0110 | - | Missing Abbreviations in Specification | 12.0.0 | 12.1.0 |
| 2015-03 | RAN5#66 | R5-150840 | 0111 | - | Missing OTDOA CA Test Cases | 12.0.0 | 12.1.0 |
| 2015-03 | RAN5#66 | R5-150891 | 0112 | - | Abbreviation Corrections for BDS in 37.571-5 | 12.0.0 | 12.1.0 |
| 2015-06 | RAN5#67 | R5-151069 | 0113 | - | Add TDD to A-GNSS Assistance Data | 12.1.0 | 12.2.0 |
| 2015-06 | RAN5#67 | R5-151091 | 0114 | - | Missing RSTD new tests for 10.2D and 10.4D | 12.1.0 | 12.2.0 |
| 2015-06 | RAN5#67 | R5-151910 | 0117 | 1 | Corrections to the Ionospheric Model of BDS | 12.1.0 | 12.2.0 |
| 2015-09 | RAN5#68 | R5-153108 | 0118 | - | Corrections to UTC Model and Time Model | 12.2.0 | 12.3.0 |
| 2015-09 | RAN5#68 | R5-153109 | 0119 | - | Update to Galileo Assistance Data IEs | 12.2.0 | 12.3.0 |
| 2015-09 | RAN5#68 | R5-153112 | 0120 | - | Corrections to UTC Model | 12.2.0 | 12.3.0 |
| 2015-09 | RAN5#68 | R5-153113 | 0121 | - | Update to Galileo Assistance Data IEs | 12.2.0 | 12.3.0 |
| 2015-09 | RAN5#68 | R5-153150 | 0122 | - | Missing RSTD information for multiple test cases | 12.2.0 | 12.3.0 |
| 2015-09 | RAN5#68 | R5-153151 | 0123 | - | Missing BDS reference in the A-GNSS Minimum Performance Testing | 12.2.0 | 12.3.0 |
| 2015-09 | RAN5#68 | R5-153664 | 0126 | - | Update of Galileo OS SIS ICD reference | 12.2.0 | 12.3.0 |
| 2015-09 | RAN5#68 | R5-153791 | 0124 | 1 | Corrections to BDS Clock Model and Navigation Model for SIG tests | 12.2.0 | 12.3.0 |
| 2015-09 | RAN5#68 | R5-153866 | 0127 | 1 | Corrections to BDS Clock Model and Navigation Model for Perf tests | 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 | R5-155185 | 0131 | - | Values for two new 3 DL CA RSTD Measurement Accuracy test cases | 12.3.0 | 12.4.0 |
| 2015-12 | RAN#70 | R5-155877 | 0130 | 1 | Values for two new 3 DL CA RSTD Measurement Reporting Delay test cases | 12.3.0 | 12.4.0 |
| 2015-12 | RAN#70 | R5-156186 | 0133 | 2 | LBS-Sig: Corrections to A-BDS navigation files | 12.3.0 | 12.4.0 |
| 2015-12 | RAN#70 | R5-156187 | 0132 | 2 | LBS-Perf: Corrections to A-BDS navigation files | 12.3.0 | 12.4.0 |
| 2016-03 | RAN#71 | R5-160173 | 0136 | - | LBS Perf: Correction of assistance data files for A-BDS scenario 1 | 12.4.0 | 12.5.0 |
| 2016-03 | RAN#71 | R5-160174 | 0137 | - | LBS Sig: Correction of assistance data files for A-BDS | 12.4.0 | 12.5.0 |
| 2016-03 | RAN#71 | R5-160899 | 0138 | 1 | LBS Perf: Correction of assistance data files for A-GALILEO scenario 1 | 12.4.0 | 12.5.0 |
| 2016-03 | RAN#71 | R5-160973 | 0140 | 1 | LBS Sig: Correction of assistance data files for A-GALILEO | 12.4.0 | 12.5.0 |
| 2016-03 | RAN#71 | R5-161000 | 0139 | 1 | LBS Perf: Correction of assistance data files for A-GALILEO scenario 2 | 12.4.0 | 12.5.0 |
| 2016-09 | RAN#73 | R5-165088 | 0145 | - | Correction of BDS Almanac di values for geostationary satellites | 12.5.0 | 12.6.0 |
| 2016-09 | RAN#73 | R5-165089 | 0146 | - | Correction of BDS Almanac di values for geostationary satellites | 12.5.0 | 12.6.0 |
| 2016-09 | RAN#73 | R5-165994 | 0147 | 1 | Aligning GNSS and GPS UE reference position | 12.5.0 | 12.6.0 |
| 2016-09 | RAN#73 | R5-165998 | 0149 | 1 | Addition of Indoor Positioning Enhancements (MBS) (protocol) | 12.6.0 | 13.0.0 |
| 2016-12 | RAN#74 | R5-168470 | 0150 | - | Add WLAN signalling sub-test and references for Indoor Positioning | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169095 | 0156 | 1 | LBS-Sig: correction of the URA value and rinex file format for BDS | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169096 | 0157 | 1 | LBS-Sig: correction of the rinex file format for GLONASS | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169097 | 0158 | 1 | LBS-Sig: correction of the rinex file for GPS | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169098 | 0159 | 1 | LBS-Sig: correction of the rinex file for Galileo | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169099 | 0160 | 1 | LBS-Sig: correction of the QZSS scenario | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169642 | 0151 | 1 | LBS-Perf: correction of the URA value and rinex file format for BDS | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169643 | 0152 | 1 | LBS-Perf: correction of the rinex file format for GLONASS | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169644 | 0153 | 1 | LBS-Perf: correction of the rinex file for GPS | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169645 | 0154 | 1 | LBS-Perf: correction of the rinex file for Galileo | 13.0.0 | 13.1.0 |
| 2016-12 | RAN#74 | R5-169646 | 0155 | 1 | LBS-Perf: correction of the QZSS scenario | 13.0.0 | 13.1.0 |
| 2017-03 | RAN#75 | R5-170739 | 0161 | - | Add Bluetooth signalling subtests and references | 13.1.0 | 13.2.0 |
| 2017-03 | RAN#75 | R5-171907 | 0162 | 1 | Correction OTDOA Assistance Data for 3CC test cases | 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 | R5-172181 | 0165 | - | Add clarification of Sub-test clause for minimum performance tests | 14.0.0 | 14.1.0 |
| 2017-06 | RAN#76 | R5-172966 | 0164 | 1 | Merge GNSS sub-tests into one sub-test | 14.0.0 | 14.1.0 |
| 2017-06 | RAN#76 | R5-172969 | 0167 | 1 | Introduction of MBS Assistance Data for Signalling and Measurement Tests | 14.0.0 | 14.1.0 |
| 2017-06 | RAN#76 | R5-173415 | 0166 | 2 | Add Sub-tests for A-GPS, A-GLONASS and A-BDS for GNSS | 14.0.0 | 14.1.0 |
| 2017-09 | RAN#77 | R5-174586 | 0171 | 1 | Correction of the Fit Validity Interval and SV32 health for GPS RNX files - Signalling | 14.1.0 | 14.2.0 |
| 2017-09 | RAN#77 | R5-175121 | 0170 | 1 | Correction of the Fit Validity Interval and SV32 health for GPS RNX files - Performance | 14.1.0 | 14.2.0 |
| 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) | 14.2.0 | 15.0.0 |
| 2018-03 | RAN#79 | R5-180315 | 0174 | - | Assistance Data for OTDOA Cat1bis | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-180316 | 0175 | - | Assistance Data for OTDOA NB-IOT | 15.0.0 | 15.1.0 |
| 2018-03 | RAN#79 | R5-181346 | 0176 | 1 | Added MBS, WLAN, and Bluetooth assistance data | 15.0.0 | 15.1.0 |
| 2018-06 | RAN#80 | R5-182230 | 0177 | - | Assistance data updates for OTDOA NB-IOT | 15.1.0 | 15.2.0 |
| 2018-09 | RAN#81 | R5-184029 | 0180 | - | Addition of missing assistance data for the Galileo E5A signal for LTE minimum performance sub-tests 3 and 8 | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-184030 | 0181 | - | Addition of missing assistance data for modernized GPS and the GPS L5 signal for the LTE signalling tests | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-184036 | 0182 | - | Addition of missing assistance data for the Galileo E5A signal for LTE signalling tests | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-184191 | 0185 | - | Editorial - Updates, corrections and clarifications to specification | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-185420 | 0184 | 1 | Addition of Assistance Data for OTDOA eMTC tests | 15.2.0 | 15.3.0 |
| 2018-09 | RAN#81 | R5-185421 | 0179 | 1 | Addition of missing assistance data for modernized GPS and the GPS L5 signal for LTE minimum performance sub-test 4 | 15.2.0 | 15.3.0 |
| 2018-12 | RAN#82 | R5-186624 | 0186 | - | Correction of implementation errors from R5-184028 | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186625 | 0187 | - | Correction of GNSS-IonosphericModel sub-tests list | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186626 | 0188 | - | Clarification of notes for Galileo signal information | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186627 | 0189 | - | Clarification of use of Modernized GPS for Minimum Performance test cases | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186628 | 0190 | - | Clarification of use of Assistance Data for Galileo and Modernized GPS signalling test cases | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186629 | 0191 | - | Addition of information for two missing Minimum Performance triple-GNSS test cases | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-186630 | 0192 | - | Addition of NR signalling background information | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-187183 | 0193 | - | Correction to number of almanac elements for Galileo | 15.3.0 | 15.4.0 |
| 2018-12 | RAN#82 | R5-187468 | 0194 | - | Editorial Changes for TS 37.571-5 | 15.3.0 | 15.4.0 |
| 2019-03 | RAN#83 | R5-191127 | 0195 | - | Addition of general NR information for minimum performance | 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 | R5-195011 | 0198 | - | Addition of information for A-GNSS Minimum Performance tests for NR | 16.0.0 | 16.1.0 |
| 2019-06 | RAN#84 | R5-195087 | 0197 | 1 | Add SVIDs for subtests 12 and 13 | 16.0.0 | 16.1.0 |
| 2019-12 | RAN#86 | R5-198969 | 0200 | 1 | Addition GNSS scenarios for Aerial testing | 16.1.0 | 16.2.0 |
| 2020-03 | RAN#87 | R5-201015 | 0201 | 1 | Editorial changes to TS 37.571-X titles to remove references to individual RATs | 16.2.0 | 16.3.0 |
| 2021-03 | RAN#90 | R5-211340 | 0205 | 1 | Addition of support for BDS B1C signal | 16.3.0 | 16.4.0 |
| 2021-03 | RAN#90 | R5-211516 | 0203 | 1 | Corrections for support of multiple GPS signals | 16.3.0 | 16.4.0 |
| 2021-03 | RAN#90 | R5-211812 | 0206 | 1 | Addition of support for BDS B1C signal | 16.3.0 | 16.4.0 |
| 2021-03 | RAN#90 | R5-211848 | 0204 | 1 | Corrections for support of multiple signals in a GNSS | 16.3.0 | 16.4.0 |
| 2021-06 | RAN#92 | R5-213141 | 0207 | - | Add assistance data for OTDOA feMTC | 16.4.0 | 16.5.0 |
| 2021-09 | RAN#93 | R5-215711 | 0209 | 1 | Introduction of updated GNSS scenarios | 16.5.0 | 16.6.0 |
| 2021-09 | RAN#93 | R5-216006 | 0208 | 1 | Introduction of updated GNSS scenarios | 16.5.0 | 16.6.0 |
| 2021-12 | RAN#94 | R5-217135 | 0212 | - | Update GNSS scenarios for multi-GNSS | 16.6.0 | 16.7.0 |
| 2021-12 | RAN#94 | R5-217257 | 0214 | - | Include satellite SVIDs for 2012 GNSS scenario | 16.6.0 | 16.7.0 |
| 2021-12 | RAN#94 | R5-218291 | 0213 | 1 | Add assistance data for OTDOA feMTC | 16.6.0 | 16.7.0 |
| 2022-06 | RAN#96 | R5-222521 | 0215 | - | Addition of QZSS to the updated GNSS scenarios | 16.7.0 | 16.8.0 |
| 2022-09 | RAN#97 | R5-225742 | 0216 | 1 | Assistance data for TC 14.2.1 and 14.3.1 | 16.8.0 | 16.9.0 |
| 2022-09 | RAN#97 | R5-225838 | 0217 | 1 | Corrections to the GNSS scenarios | 16.8.0 | 16.9.0 |
| 2022-12 | RAN#98 | R5-227880 | 0218 | 1 | Assistance data for 14.2.2 | 16.9.0 | 16.10.0 |
| 2023-06 | RAN#100 | R5-232150 | 0219 | - | Removal of technical content in TS 37.571-5 v16.10.0 and substitution with pointer to the next Release | 16.10.0 | 16.11.0 |