



**Universal Mobile Telecommunications System (UMTS);
LTE;
Universal Terrestrial Radio Access (UTRA) and
Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC);
User Equipment (UE) conformance specification
for UE positioning;
Part 5: Test scenarios and assistance data
(3GPP TS 37.571-5 version 12.7.0 Release 12)**



Reference

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Keywords

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Foreword

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Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The present document is part 5 of a multi-part TS:

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

3GPP TS 37. 571-2: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance.

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

3GPP TS 37. 571-4: Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites.

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

1 Scope

The present document specifies the test scenarios and assistance data required for the conformance test for FDD or TDD mode of UTRA and E-UTRA 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) and Enhanced Cell ID (ECID).

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 [20] (void)

[21] 3GPP TS 37.571-5 Release 13: "Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data"

3 Definitions, symbols and abbreviations

Void

4 General

The requirements of the present document are provided in 3GPP TS 37.571-5 Release 13 [21].

5 to 7 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#56 bis | 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 |

| Date | TSG # | TSG Doc. | CR | Rev | Subject/Comment | Old | New |
|---------|---------|-----------|------|-----|---|---------|---------|
| 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 |

| Date | TSG # | TSG Doc. | CR | Rev | Subject/Comment | Old | New |
|---------|---------|-----------|------|-----|--|--------|--------|
| 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 |
| 2017-03 | RAN#75 | R5-171336 | 0163 | - | Removal of technical content in 37.571-5 v12.6.0 and substitution with pointer to the next Release | 12.6.0 | 12.7.0 |

History

| Document history | | |
|-------------------------|---------------|-------------|
| V12.0.0 | January 2015 | Publication |
| V12.1.0 | April 2015 | Publication |
| V12.2.0 | July 2015 | Publication |
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| V12.7.0 | April 2017 | Publication |