

ETSI TS 137 571-4 V16.9.0 (2024-08)



**Universal Mobile Telecommunications System (UMTS);
LTE;
5G;
User Equipment (UE)
conformance specification for UE positioning;
Part 4: Test suites
(3GPP TS 37.571-4 version 16.9.0 Release 16)**



Reference

RTS/TSGR-0537571-4vg90

Keywords

5G,LTE,UMTS

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from the
ETSI [Search & Browse Standards application](#).

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format on [ETSI deliver](#).

Users should be aware that the present document may be revised or have its status changed,
this information is available in the [Milestones listing](#).

If you find errors in the present document, please send your comments to
the relevant service listed under [Committee Support Staff](#).

If you find a security vulnerability in the present document, please report it through our
[Coordinated Vulnerability Disclosure \(CVD\)](#) program.

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2024.
All rights reserved.

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org/>).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™** and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

Legal Notice

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities. These shall be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between 3GPP and ETSI identities can be found under <https://webapp.etsi.org/key/queryform.asp>.

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Contents

Intellectual Property Rights	2
Legal Notice	2
Modal verbs terminology.....	2
Foreword.....	4
Introduction	4
1 Scope	5
2 References	5
3 Definitions, symbols and abbreviations	5
4 Test Requirements.....	6
5 to 9 Void.....	6
Annex A to E: Void	7
Annex F (informative): Change history	8
History	15

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 4 of a multi-part conformance test specification. The specification contains a TTCN design frame work and the detailed test specifications in TTCN for the UE:

- A-GPS at the UTRA Uu interface in TTCN-2;
- A-GNSS at the UTRA Uu interface in TTCN-3;
- LTE positioning at the LTE-Uu interface in TTCN-3.
- NR positioning at the NR-Uu interface in TTCN-3.

The present document is part 4 of a multi-parts TS:

- 3GPP TS 37.571-1: User Equipment (UE) conformance specification for UE positioning; Part 1: Terminal conformance.
- 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 and signalling conformance testing in TTCN for the UE:

- A-GPS at the UTRA Uu interface;
- LTE positioning at the LTE-Uu interface;
- A-GNSS at the UTRA Uu interface.
- NR positioning at the NR-Uu interface.

The following TTCN test specification and design considerations can be found in the present document:

- Test system architecture;
- Test models and ASP definitions;
- Test methods and usage of communication ports definitions;
- Test configurations;
- Design principles and assumptions;
- TTCN styles and conventions;
- Partial PIXIT proforma;
- Test suites in TTCN-2 and TTCN-3;
- The Test Suites designed and implemented in the present document are based on the test specifications in prose in 3GPP TS 37.571-2 [3];
- The applicability of the individual test cases is specified in the test ICS proforma specification in 3GPP TS 37.571-3 [4].

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 [29] (void)

[30] 3GPP TS 37.571-4 Release 17: "User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites"

3 Definitions, symbols and abbreviations

Void

4 Test Requirements

The requirements of the present document are provided in 3GPP TS 37.571-4 Release 17 [30].

5 to 9 Void

Annex A to E: Void

Annex F (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	R e v	Subject/Comment	Old	New
2011-06	RAN5#51	R5-112203	-	-	Initial proposal for A-GNSS		0.0.1
2011-09	RAN5#52	R5-113037	-	-	Introduced positioning test model	0.0.1	0.1.0
2011-11	RAN5#53	R5-115106	-	-	Imported A-GPS test model from 3GPP TS 34.123-3	0.1.0	1.0.0
2011-12	RAN#54	RP-111627	-	-	Presentation of V1.0.0	0.1.0	1.0.0
2012-05	RAN5#55	R5-121083	-	-	Presentation of V1.1.0	1.0.0	1.1.0
2012-06	RAN#56	RP-120614	-	-	Presentation of V2.0.0	1.0.0	2.0.0
2012-06	RAN#56	-	-	-	Editorial corrections and formattings.	2.0.0	9.0.0
2012-06	RAN#56	-	-	-	Raised to v10.0.0 with no change.	9.0.0	10.0.0
2012-09	RAN#57	R5-123690	0001	-	37571-4: Routine maintenance and updates	10.0.0	10.1.0
2013-06	RAN#60	R5-131136	0003	-	37571-4: Routine maintenance and updates	10.1.0	10.2.0
2013-06	RAN#60	R5s130125	0004	-	Addition of EUTRA UE Positioning test case 7.1.1	10.1.0	10.2.0
2013-06	RAN#60	R5s130145	0005	-	Addition of EUTRA UE Positioning test case 7.3.1.1	10.1.0	10.2.0
2013-06	RAN#60	R5s130147	0006	-	Addition of EUTRA UE Positioning test case 7.3.2.1	10.1.0	10.2.0
2013-06	RAN#60	R5s130149	0007	-	Addition of EUTRA UE Positioning test case 7.3.2.2	10.1.0	10.2.0
2013-06	RAN#60	R5s130151	0008	-	Addition of EUTRA UE Positioning test case 7.3.2.3	10.1.0	10.2.0
2013-06	RAN#60	R5s130153	0009	-	Addition of EUTRA UE Positioning test case 7.3.5.1_6s	10.1.0	10.2.0
2013-06	RAN#60	R5s130155	0010	-	Addition of EUTRA UE Positioning test case 7.3.5.1_5s	10.1.0	10.2.0
2013-06	RAN#60	R5s130157	0011	-	Addition of EUTRA UE Positioning test case 7.3.4.2_5s	10.1.0	10.2.0
2013-06	RAN#60	R5s130159	0012	-	Addition of EUTRA UE Positioning test case 7.3.4.2_6s	10.1.0	10.2.0
2013-06	RAN#60	R5s130288	0013	-	Addition of EUTRA UE Positioning test case 7.3.4.4_5s	10.1.0	10.2.0
2013-06	RAN#60	R5s130290	0014	-	Addition of EUTRA UE Positioning test case 7.3.5.1_1s	10.1.0	10.2.0
2013-06	RAN#60	RP-130616	0015	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	10.1.0	10.2.0
2013-09	RAN#61	R5s130421	0016	-	Correction to EUTRA UE Positioning test cases 7.3.4.2.5s and 7.3.4.4.5s	10.2.0	10.3.0
2013-09	RAN#61	R5s130457	0017	-	Correction to EUTRA UE Positioning test case 7.3.5.1.1s	10.2.0	10.3.0
2013-09	RAN#61	R5s130468	0018	-	Correction to EUTRA UE Positioning test cases 7.3.1.1	10.2.0	10.3.0
2013-09	RAN#61	RP-131167	0019	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	10.2.0	10.3.0
2013-12	RAN#62	R5s130618	0020	-	Addition of EUTRA UE Positioning test case 7.3.4.1_1s	10.3.0	10.4.0
2013-12	RAN#62	R5s130627	0021	-	Addition of EUTRA UE Positioning test case 7.3.4.3_1s	10.3.0	10.4.0
2013-12	RAN#62	RP-131871	0022	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	10.3.0	10.4.0
2014-03	RAN#63	R5-140326	0023	-	A-GNSS ASN.1 reference	10.4.0	10.5.0
2014-03	RAN#63	R5s130913	0024	-	Correction to function fl_TC_7_3_5_1_GNSS_TestBody	10.4.0	10.5.0
2014-03	RAN#63	R5s130914	0025	-	Correction to sVID values in AcquisitionAssist and AuxiliaryInformation	10.4.0	10.5.0
2014-03	RAN#63	R5s131009	0026	-	Addition of EUTRA UE Positioning test case 7.3.5.1_2s	10.4.0	10.5.0
2014-03	RAN#63	R5s131011	0027	-	Addition of EUTRA UE Positioning test case 7.3.5.1_4s	10.4.0	10.5.0
2014-03	RAN#63	RP-140316	0028	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	10.4.0	10.5.0
2014-06	RAN#64	R5s140086	0029	-	Addition of EUTRA UE Positioning test case 7.2.1.1	10.5.0	10.6.0
2014-06	RAN#64	R5s140088	0030	-	Addition of EUTRA UE Positioning test case 7.2.1.2	10.5.0	10.6.0

Change history							
Date	TSG #	TSG Doc.	CR	R e v	Subject/Comment	Old	New
2014-06	RAN#64	R5s140090	0031	-	Addition of EUTRA UE Positioning test case 7.2.1.3	10.5.0	10.6.0
2014-06	RAN#64	R5s140242	0032	-	Correction to LTE UE Positioning test case 7.3.5.1	10.5.0	10.6.0
2014-06	RAN#64	R5s140253	0033	-	Addition of EUTRA UE Positioning test case 7.3.4.4.1s	10.5.0	10.6.0
2014-06	RAN#64	R5s140255	0034	-	Addition of EUTRA UE Positioning test case 7.3.4.2.1s	10.5.0	10.6.0
2014-06	RAN#64	R5s140257	0035	-	Correction to LTE UE Positioning test case 7.3.4.3.1s	10.5.0	10.6.0
2014-06	RAN#64	R5s140316	0036	-	Addition of UTRAN UE Positioning test case 6.2.3.3	10.5.0	10.6.0
2014-06	RAN#64	R5s140318	0037	-	Addition of UTRAN UE Positioning test case 6.2.3.4	10.5.0	10.6.0
2014-06	RAN#64	R5s140320	0038	-	Addition of UTRAN UE Positioning test case 6.2.3.5	10.5.0	10.6.0
2014-06	RAN#64	R5s140433	0039	-	Addition of GCF WI-166 EUTRA UE Positioning test case 7.3.4.3.4s	10.5.0	10.6.0
2014-06	RAN#64	R5s140435	0040	-	Addition of GCF WI-166 EUTRA UE Positioning test case 7.3.4.4.4s	10.5.0	10.6.0
2014-06	RAN#64	RP-140825	0041	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	10.5.0	10.6.0
2014-06	RAN#64	R5s140086	0029	-	Addition of EUTRA UE Positioning test case 7.2.1.1	10.5.0	10.6.0
2014-06	RAN#64	R5s140088	0030	-	Addition of EUTRA UE Positioning test case 7.2.1.2	10.5.0	10.6.0
2014-06	RAN#64	R5s140090	0031	-	Addition of EUTRA UE Positioning test case 7.2.1.3	10.5.0	10.6.0
2014-09	RAN#65	R5-144256	0042	-	Routine maintenance and updates	10.6.0	10.7.0
2014-12	RAN#66	R5s140739	0043	-	Addition of GCF WI-166 EUTRA UE Positioning test case 7.3.4.2.4s	10.7.0	10.8.0
2014-12	RAN#66	R5s140777	0044	-	Usage of <MULTIPLE_CNF> in UpperTesterFunctions	10.7.0	10.8.0
2014-12	RAN#66	RP-142067	0045	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	10.7.0	10.8.0
2015-03	RAN#67	R5s141359	0047	-	Correction of errors in implementation of positioning CRs	10.8.0	10.9.0
2015-03	RAN#67	R5s150027	0048	-	Addition of GCF WI-166 EUTRA UE Positioning test case 7.3.4.1.4s	10.8.0	10.9.0
2015-03	RAN#67	RP-150336	0049	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	10.8.0	10.9.0
2015-03	RAN#67	-	-	-	upgraded to Rel-11 with no change	10.9.0	11.0.0
2015-03	RAN#67	R5-150735	0046	-	Addition of BeiDou Test Model	11.0.0	12.0.0
2015-06	RAN#68	RP-150897	0050	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	12.0.0	12.1.0
2015-06	RAN#68	R5s150013	0051	-	Addition of UTRAN UE Positioning test case 6.2.3.2.4s	12.0.0	12.1.0
2015-06	RAN#68	R5s150222	0052	-	Correction to POS ATS in TTCN-3 delivery 15wk10	12.0.0	12.1.0
2015-06	RAN#68	R5s150331	0053	-	Rel-12 baseline upgrade for POS Test Suite	12.0.0	12.1.0
2015-06	RAN#68	R5s150343	0054	-	Corrections to UTRAN UE Positioning functions	12.0.0	12.1.0
2015-06	RAN#68	R5s150344	0055	-	Correction to LTE UE Positioning test cases 7.3.5.1.5s and 7.5.1	12.0.0	12.1.0
2015-06	RAN#68	R5s150345	0056	-	Correction to GLONASS LPP test cases	12.0.0	12.1.0
2015-06	RAN#68	R5s150353	0057	-	Improvement of function f_POS_CheckGnssSupportList	12.0.0	12.1.0

Change history							
Date	TSG #	TSG Doc.	CR	R e v	Subject/Comment	Old	New
2015-06	RAN#68	R5s150404	0058	-	Addition of GCF WI-166 EUTRA UE Positioning test case 7.3.3.1	12.0.0	12.1.0
2015-06	RAN#68	R5s150439	0059	-	Correction to selection of Assistance Data for sub-test 4	12.0.0	12.1.0
2015-09	RAN#69	RP-151421	0060	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	12.1.0	12.2.0
2015-09	RAN#69	R5s150011	0061	-	Addition of UTRAN UE Positioning test case 6.2.1.1.4s	12.1.0	12.2.0
2015-09	RAN#69	R5s150589	0062	-	Correction to EUTRA Positioning functions	12.1.0	12.2.0
2015-09	RAN#69	R5s150590	0063	-	Correction to Upper Tester modules	12.1.0	12.2.0
2015-09	RAN#69	R5s150706	0064	-	Addition of UTRAN UE Positioning test case 6.2.2.1.4s	12.1.0	12.2.0
2015-09	RAN#69	R5s150708	0065	-	Addition of UTRAN UE Positioning test case 6.2.2.3.4s	12.1.0	12.2.0
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	12.1.0	12.2.0
2015-12	RAN#70	R5s150710	0068	-	Addition of GCF WI-166 EUTRA UE Positioning test case 7.3.4.2.7s	12.2.0	12.3.0
2015-12	RAN#70	R5s150712	0069	-	Addition of GCF WI-166 EUTRA UE Positioning test case 7.3.4.4.7s	12.2.0	12.3.0
2015-12	RAN#70	R5s150805	0070	-	Correction to POS capability check procedure	12.2.0	12.3.0
2015-12	RAN#70	R5s150911	0071	-	Code improvements in Positioning test cases	12.2.0	12.3.0
2015-12	RAN#70	RP-151697	0072	-	CR to 37.571-4: Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	12.2.0	12.3.0
2016-03	RAN#71	R5s151010	0073	-	Correction to POS type definition in ATS_15wk38	12.3.0	12.4.0
2016-06	RAN#72	R5s160479	0074	1	Correction to LTE Positioning test cases	12.4.0	12.5.0
2016-06	RAN#72	R5s160480	0075	1	Correction to UTRA Positioning test cases	12.4.0	12.5.0
2016-09	RAN#73	R5s160713	0076	-	Rel-13 baseline upgrade for POS Test Suite	12.5.0	13.0.0
2016-12	RAN#74	-	-	-	updated to deliver latest TTCN	13.0.0	13.1.0
2017-03	RAN#75	R5-171531	0082	-	Indoor Positioning: Introduction of Test Model	13.1.0	13.2.0
2017-03	RAN#75	R5s170127	0078	1	Correction to GCF WI-166 EUTRA UE Positioning test case 7.3.4.4.7s	13.1.0	13.2.0
2017-03	RAN#75	R5s170128	0079	1	Correction to function f_POS_CheckCapabilities() for OTDOA	13.1.0	13.2.0
2017-03	RAN#75	R5s170186/ RP-170104	0084	-	Update ASP changes due to inclusion of iPOS in 37.571-4 (prose), Annex D	13.1.0	13.2.0
2017-06	RAN#76	R5s170311	0085	-	Addition of LTE UE Positioning test case 7.3.4.1.10s	13.2.0	13.3.0
2017-06	RAN#76	R5s170313	0086	-	Addition of LTE UE Positioning test case 7.3.4.3.10s	13.2.0	13.3.0
2017-06	RAN#76	R5s170363	0087	-	Aligning name of PICS used in TTCN to the TS 37.571-3 definition	13.2.0	13.3.0
2017-06	RAN#76	R5s170383	0083	1	Corrections to UE Positioning test cases	13.2.0	13.3.0
2017-06	RAN#76	R5s170416	0088	-	Update of TC list in 37.571-4 (prose), Annex A, due to merging of GNSS subtest	13.2.0	13.3.0
2017-09	RAN#77	R5s170630	0089	1	Correction to function 'f_POS_CheckGnssSupportList'	13.3.0	13.4.0
2017-09	RAN#77	R5s170599	0090	-	Rel-14 baseline upgrade for POS Test Suite	13.4.0	14.0.0
2017-09	RAN#77	R5-173663	0091	-	Indoor Positioning Enhancements: Introduction of Test Model	13.4.0	14.0.0

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2017-12	RAN#78	R5-176982	0093	1	GNSS Test Model updates for V2X	14.0.0	14.1.0
2017-12	RAN#78	R5s170860	0092	1	Correction to UE Positioning test case 7.3.1.1	14.0.0	14.1.0
2018-03	RAN#79	R5-180677	0099	-	Routine maintenance for TS 37.571-4	14.1.0	14.2.0
2018-03	RAN#79	R5s180081	0094	1	Correction to EUTRA release information for UE Positioning TCs	14.1.0	14.2.0
2018-03	RAN#79	R5s180113	0095	1	Addition of LTE UE Positioning test case 7.3.4.2.15s (BDS)	14.1.0	14.2.0
2018-03	RAN#79	R5s180114	0096	1	Addition of LTE UE Positioning test case 7.3.4.4.15s (BDS)	14.1.0	14.2.0
2018-03	RAN#79	R5s180115	0097	1	Addition of LTE UE Positioning test case 7.3.5.1.15s (BDS)	14.1.0	14.2.0
2018-06	RAN#80	R5-182292	0102	-	V2X: Test Model updates	14.2.0	14.3.0
2018-06	RAN#80	R5s180327	0101	1	Correction / improvement to UE Positioning TCs 7.2.2.1 + 7.2.2.2	14.2.0	14.3.0
2018-12	RAN#82	R5s180569	0105	-	Correction to number of almanac elements for Galileo	14.3.0	14.4.0
2018-12	RAN#82	R5s180554	0103	-	Rel-15 Sep'18 baseline upgrade for POS Test Suite	14.4.0	15.0.0
2019-03	RAN#83	R5s190056	0106	-	Correction to checking LPP ePDU capabilities	15.0.0	15.1.0
2019-09	RAN#85	R5-197174	0111	1	UE Positioning over NR: Initial Test Model	15.1.0	15.2.0
2019-09	RAN#85	R5s190462	0109	-	Correction to f_POS_CheckCapabilities_Agnss	15.1.0	15.2.0
2019-09	RAN#85	R5s190463	0110	-	Correction to f_POS_CheckGnssSupportList	15.1.0	15.2.0
2019-09	RAN#85	R5s190759	0112	-	Rel-15 Jun'19 partial baseline upgrade for POS TTCN-3 Test Suite	15.1.0	15.2.0
2019-12	RAN#86	R5-198140	0113	-	Aerial Vehicles: Test Model addition	15.2.0	15.3.0
2019-12	RAN#86	R5-198142	0114	-	UE Positioning over NR: Test Model updates	15.2.0	15.3.0
2019-12	RAN#86	R5-198156	0115	-	Routine maintenance for TS 37.571-4	15.2.0	15.3.0
2019-12	RAN#86	R5s191048	0116	-	Correction to the initialisation function for LTE Positioning test cases	15.2.0	15.3.0
2020-03	RAN#87	R5-200261	0118	-	Routine maintenance for TS 37.571-4	15.3.0	15.4.0
2020-03	RAN#87	R5-200262	0119	-	Editorial changes to TS 37.571-X titles to remove references to individual RATs	15.3.0	15.4.0
2020-06	RAN#88	R5s200581	0120	-	Correction to f_POS_CheckGnssSupportList	15.4.0	15.5.0
2020-12	RAN#90	R5s201391	0122	-	Addition of 5G UE Positioning test case 9.3.1.1	15.5.0	15.6.0
2020-12	RAN#90	R5s201393	0123	-	Addition of 5G UE Positioning test case 9.3.1.2.15s	15.5.0	15.6.0
2020-12	RAN#90	R5s201395	0124	-	Addition of 5G UE Positioning test case 9.3.2.1	15.5.0	15.6.0
2020-12	RAN#90	R5s201397	0125	-	Addition of 5G UE Positioning test case 9.3.2.2	15.5.0	15.6.0
2020-12	RAN#90	R5s201399	0126	-	Addition of 5G UE Positioning test case 9.3.2.3	15.5.0	15.6.0
2020-12	RAN#90	R5s201401	0127	-	Addition of 5G UE Positioning test case 9.3.4.1.15s	15.5.0	15.6.0
2020-12	RAN#90	R5s201403	0128	-	Addition of 5G UE Positioning test case 9.3.4.2.15s	15.5.0	15.6.0
2020-12	RAN#90	R5s201405	0129	-	Addition of 5G UE Positioning test case 9.3.4.3.15s	15.5.0	15.6.0
2020-12	RAN#90	R5s201407	0130	-	Addition of 5G UE Positioning test case 9.3.4.4.15s	15.5.0	15.6.0
2020-12	RAN#90	R5s201460	0131	-	Correction to several NR5GC UE Positioning Test related functions	15.5.0	15.6.0
2020-12	RAN#90	R5s201529	0132	-	Correction to function f_POS_NR_SendLppAck()	15.5.0	15.6.0

Change history							
Date	TSG #	TSG Doc.	CR	R e v	Subject/Comment	Old	New
2020-12	RAN#90	R5s201649	0134	-	Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	15.5.0	15.6.0
2020-12	RAN#90	R5s201388	0121	-	Rel-16 Sep'20 baseline upgrade for POS Test Suite	15.6.0	16.0.0
2021-03	RAN#91	R5s210208	0133	1	Correction to function f_POS_NR_CheckAgnssMultiFreq	16.0.0	16.1.0
2021-03	RAN#91	R5s210262	0135	1	Correction to a NR5GC UE Positioning related function	16.0.0	16.1.0
2021-06	RAN#92	R5-212285	0138	-	Routine maintenance for TS 37.571-4	16.1.0	16.2.0
2021-06	RAN#92	R5s210416	0136	-	Correction for common POS function f_POS_SelectTemplateReq_IonosphModel()	16.1.0	16.2.0
2021-09	RAN#93	R5-214729	0143	-	Routine maintenance for TS 37.571-4	16.2.0	16.3.0
2021-09	RAN#93	R5s210887	0144	-	Correction to NR5GC Positioning Functions	16.2.0	16.3.0
2021-09	RAN#93	R5s210922	0141	1	Correction for multi frequency GNSS support checking	16.2.0	16.3.0
2021-09	RAN#93	R5s210926	0142	1	Addition of NR5GC Positioning test case 9.3.1.2.5s	16.2.0	16.3.0
2021-09	RAN#93	R5s211177	0145	-	Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	16.2.0	16.3.0
2021-12	RAN#94	R5-216658	0149	-	NR Positioning: Test Model addition	16.3.0	16.4.0
2021-12	RAN#94	R5-217256	0151	-	Include new pixit for the 2012 GNSS scenarios	16.3.0	16.4.0
2021-12	RAN#94	R5s211307	0147	-	Correction to POS_Parameters	16.3.0	16.4.0
2021-12	RAN#94	R5s211515	0148	-	Correction to f_POS_OTDOA_CheckEutraBand	16.3.0	16.4.0
2021-12	RAN#94	R5s211696	0153	-	Add new ASP definitions for NR test model extension in Rel-16	16.3.0	16.4.0
2022-03	RAN#95	R5-220457	0156	-	5G V2X: GNSS Test Model updates for NR sidelink	16.4.0	16.5.0
2022-03	RAN#95	R5s220170	0152	1	Correction to NR5GC_Positioning_Functions for capability check	16.4.0	16.5.0
2022-03	RAN#95	R5s220432	0154	1	Correction to f_POS_NR_CheckCapabilities_NR_Ecid	16.4.0	16.5.0
2022-03	RAN#95	R5s220433	0155	1	Correction to SVIDs for 2012 GNSS scenario	16.4.0	16.5.0
2022-03	RAN#95	R5s220439	0158	-	Update of TTCN type definitions, Annex D	16.4.0	16.5.0
2022-06	RAN#96	R5s220671	0159	-	Correction to f_UT_AT_CheckNotifyLocationRequest	16.5.0	16.6.0
2022-06	RAN#96	R5s220672	0160	-	Correction to f_POS_NR_Set_DIPrsPeriodicityAndOffset_11ms	16.5.0	16.6.0
2022-09	RAN#97	R5s220765	0163	-	Correction to function f_TC_7_3_4_2_7s_EUTRA	16.6.0	16.7.0
2022-09	RAN#97	R5s220799	0164	-	Correction to f_TC_7_3_4_4_7s_EUTRA	16.6.0	16.7.0
2022-09	RAN#97	R5s220900	0162	1	Addition of LTE POS testcase 7.2.2.2.5s	16.6.0	16.7.0
2022-09	RAN#97	R5s221026	0165	-	Rel-16 Mar'22 partial baseline upgrade for POS Test Suite	16.6.0	16.7.0
2022-09	RAN#97	R5s221073	0173	-	Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	16.6.0	16.7.0
2022-12	RAN#98	R5s221296	0166	1	Correction to f_POS_NR_CheckCapabilities_Prs_ProcessingCapabilityBandList	16.7.0	16.8.0
2022-12	RAN#98	R5s221350	0168	1	Addition of POS testcase 9.3.1.2.19s	16.7.0	16.8.0
2022-12	RAN#98	R5s221351	0169	1	Addition of POS testcase 9.3.4.2.19s	16.7.0	16.8.0
2022-12	RAN#98	R5s221352	0170	1	Addition of POS testcase 9.3.4.2.20s	16.7.0	16.8.0
2022-12	RAN#98	R5s221353	0171	1	Addition of POS testcase 9.3.4.2.21s	16.7.0	16.8.0

Change history							
Date	TSG #	TSG Doc.	CR	R e v	Subject/Comment	Old	New
2022-12	RAN#98	R5s221354	0172	1	Addition of POS testcase 9.3.4.2.22s	16.7.0	16.8.0
2022-12	RAN#98	R5s221363	0175	-	Add new verified and e-mail agreed TTCN test cases in the TC lists in 37.571-4 (prose), Annex A	16.7.0	16.8.0
2024-06	RAN#104	R5-242304	0203	-	Removal of technical content in TS 37.571-4 v16.8.0 and substitution with pointer to the next Release	16.8.0	16.9.0

History

Document history		
V16.0.0	January 2021	Publication
V16.1.0	May 2021	Publication
V16.2.0	August 2021	Publication
V16.3.0	October 2021	Publication
V16.4.0	January 2022	Publication
V16.5.0	May 2022	Publication
V16.6.0	August 2022	Publication
V16.7.0	October 2022	Publication
V16.8.0	January 2023	Publication
V16.9.0	August 2024	Publication