

3GPP TS 34.172 V10.2.0 (2012-03)

Technical Specification

**3rd Generation Partnership Project;
Technical Specification Group Radio Access Network;
Terminal conformance specification;
Assisted Global Navigation Satellite Systems (A-GNSS);
Frequency Division Duplex (FDD)
(Release 10)**



The present document has been developed within the 3rd Generation Partnership Project (3GPP™) and may be further elaborated for the purposes of 3GPP.

The present document has not been subject to any approval process by the 3GPP Organizational Partners and shall not be implemented. This Specification is provided for future development work within 3GPP only. The Organizational Partners accept no liability for any use of this Specification. Specifications and reports for implementation of the 3GPP™ system should be obtained via the 3GPP Organizational Partners' Publications Offices.

Keywords

testing, UMTS, LTE

3GPP

Postal address

3GPP support office address

650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet

<http://www.3gpp.org>

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© 2012, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TTA, TTC).
All rights reserved.

UMTS™ is a Trade Mark of ETSI registered for the benefit of its members
3GPP™ is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners
LTE™ is a Trade Mark of ETSI currently being registered for the benefit of its Members and of the 3GPP Organizational Partners
GSM® and the GSM logo are registered and owned by the GSM Association

Contents

Foreword	4
1 Scope	5
2 References.....	5
3 Definitions, symbols and abbreviations	5
3.1 Definitions	5
3.2 Symbols.....	6
3.3 Abbreviations.....	6
4 General.....	6
5 Void.....	6
Annex A to G: Void Annex H (informative): Change history	7
Annex H (informative): Change history.....	8

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.

1 Scope

The present document specifies the measurement procedures for the conformance test of the minimum performance requirements for FDD mode of UTRA user equipment (UE) that supports Assisted Global Navigation Satellite Systems (A-GNSS). It includes the measurement procedures for the conformance test of both UE-based and UE-assisted A-GNSS. It excludes performance requirements for UEs where the only A-GNSS supported is A-GPS L1C/A which are specified in TS 34.171 [26].

Tests are only applicable to those mobiles that are intended to support the appropriate functionality. To indicate the circumstances in which tests apply, this is noted in the "*definition and applicability*" part of the test.

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*.
 - For a Release 1999 UE, references to 3GPP documents are to version 3.x.y.
 - For a Release 4 UE, references to 3GPP documents are to version 4.x.y.
 - For a Release 5 UE, references to 3GPP documents are to version 5.x.y.
 - For a Release 6 UE, references to 3GPP documents are to version 6.x.y.
 - For a Release 7 UE, references to 3GPP documents are to version 7.x.y.
 - For a Release 8 UE, references to 3GPP documents are to version 8.x.y.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TR 25.990: "Vocabulary for UTRAN".

[3] to [25] Void

[26] 3GPP TS 34.171: "Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)".

[27] 3GPP TS 37.571-1: "User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification".

[28] 3GPP TS 37.571-3: "User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS)".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purpose of the present document, the terms and definitions given in 3GPP TR 21.905 [1], 3GPP TR 25.990 [2] and the following apply:

L1: L band GPS transmission frequency of 1575.42 MHz.

3.2 Symbols

Void

3.3 Abbreviations

For the purpose of the present document, the abbreviations given in 3GPP TR 21.905 [1], 3GPP TR 25.990 [2] and the following apply:

A-GANSS	Assisted-Galileo and Additional Navigation Satellite Systems
A-GNSS	Assisted-GNSS
A-GPS	Assisted - Global Positioning System
C/A	Coarse/Acquisition
GNSS	Global Navigation Satellite System
GPS	Global Positioning System

4 General

The technical content (except for Annex G) of the present document is provided in 3GPP TS 37.571-1 [27].

The mapping of the technical content of the test cases provided in the previous version of the present document to the test cases currently provided in 3GPP TS 37.571-1 [27] is given in table 4.1.

Table 4.1: Mapping of the test cases from TS 34.172 to TS 37.571-1

Test Case Name	Clause number in TS 34.172	Clause number in TS 37.571-1
Sensitivity Coarse Time Assistance	5.2.1	6.2.1
Sensitivity Fine Time Assistance	5.2.2	6.2.2
Nominal Accuracy	5.3	6.3
Dynamic Range	5.4	6.4
Multi-path Performance	5.5	6.5
Moving Scenario and Periodic Update Performance	5.6	6.6

The technical content of Annex G (Test case applicability and ICS proforma) of the present document is provided in 3GPP TS 37.571-3 [28].

5 Void

Annex A to G: Void

Annex H (informative): Change history

Meeting	Document	CR	Rev	Subject	Cat	Version - old	Version - new	WG Document
RAN5#49	R5-106342	-	-	Initial version	-		0.0.0	-
RAN5#49	R5-106612	-	-	Editor's notes added. V1.0.0 prepared for presentation to RAN Plenary.	-	0.0.0	1.0.0	-
RAN5#50	R5-110129	-	-	New values added. Editor's notes cleared	-	1.0.0	1.1.0	-
RAN5#50	R5-110130	-	-	V2.0.0 prepared for presentation to RAN Plenary.	-	1.1.0	2.0.0	-
-	-	-	-	Raised to v10.0.0 with no change	-	2.0.0	10.0.0	-
RAN#52	RP-110659	0001	-	Corrections to clause references	F	10.0.0	10.1.0	R5-112140
RAN#52	RP-110659	0002	-	Removal of lower humidity limit	F	10.0.0	10.1.0	R5-112144
RAN#55	RP-120190	0003	-	Void technical contents	F	10.1.0	10.2.0	R5-120084