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Technical Specification

**Universal Mobile Telecommunications System (UMTS);
Terminal conformance specification;
Assisted Global Navigation Satellite Systems (A-GNSS);
Frequency Division Duplex (FDD)
(3GPP TS 34.172 version 10.2.0 Release 10)**



Reference

RTS/TSGR-0534172va20

Keywords

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Foreword

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

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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.

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

History

Document history		
V10.0.0	April 2011	Publication
V10.1.0	July 2011	Publication
V10.2.0	March 2012	Publication